UNITED TECHNOLOGIES RESEARCH CENTER

East Hartford
Connecticut 06108

(NASA-CR-165457-Vol-2-Pt-1) AN EXPERIMENTAL INVESTIGATION OF GAPWISE PERIODICITY AND UNSTEADY AERODYNAMIC RESPONSE IN AN OSCILLATING CASCADE. VOLUME 2: DATA REPORT. PART (United Technologies Research
N82-18180
HC A16/MF A01
Unclas
G3/02 09158

NASA Contractor Report 165457 - Part 1 of 2
(UTRC Report R81-914618-28)

AN EXPERIMENTAL INVESTIGATION OF GAPWISE PERIODICITY AND UNSTEADY AERODYNAMIC RESPONSE IN AN OSCILLATING CASCADE
VOL. II: DATA REPORT

(Part 1: Text and Mode 1 Data)

F. O. Carta

NASA Contract NAS3-22018

December 1981

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
CR 165457		

4. Title and Subtitle
AN EXPERIMENTAL INVESTIGATION OF GAPWISE PERIODICITY AND UNSTEADY AERODYNAMIC RESPONSE IN AN OSCILLATING CASCADE
VOL. II: DATA REPORT
(Part 1: Text and Mode 1 Data)

5. Report Date
December, 1981

6. Performing Organization Code

7. Author(s)
Franklin O. Carta

8. Performing Organization Report No.
R81-914018-28

9. Performing Organization Name and Address
United Technologies Research Center
East Hartford, CT 06108

10. Work Unit No.

11. Contract or Grant No.
NAS3-22018

12. Sponsoring Agency Name and Address
National Aeronautics and Space Administration
Washington, D.C. 20546

13. Type of Report and Period Covered
Contractor Report

14. Sponsoring Agency Code
510-5[illegible]-12

15. Supplementary Notes
Final Report, Project Manager, Donald R. Boldman,
Fluid Mechanics and Acoustics Division, NASA Lewis Research Center
Cleveland, Ohio 44135

16. Abstract

Tests were conducted on a linear cascade of airfoils oscillating in pitch to measure the unsteady pressure response on selected blades along the leading edge plane of the cascade, over the chord of the center blade, and on the sidewall in the plane of the leading edge. The tests were conducted for all 96 combinations of 2 mean camberline incidence angles (α_{MCL} = 2 and 6 deg), 2 pitching amplitudes ($\bar{\alpha}$ = 0.5 and 2 deg), 3 reduced frequencies (k = .072, .122, and .151 based on semi chord), and 8 interblade phase angles (σ = 0, $\pm$ 45, $\pm$ 90, $\pm$ 135, 180 deg). The pressure data were reduced to Fourier coefficient form for direct comparison, and were also processed to yield integrated loads and, particularly, the aerodynamic damping coefficient.

The experimental results of this program are presented in two volumes. The first volume (NASA CR 3513) describes the test procedure, discusses key results from the experiment, and provides a cursory comparison of experimental data and theoretical predictions. The present volume, in two parts, is a compilation of all data obtained during the test program, reproduced from the printout of the data reduction program. A further description of the contents of this report is found in the text that follows.

17. Key Words (Suggested by Author(s))

Cascade aerodynamics
Cascade instability
Interblade phase angle
Oscillating airfoils
Unsteady cascade periodicity
Unsteady cascade theory
Unsteady flow
Unsteady pressure distributions

18. Distribution Statement
Unclassified - unlimited
STAR Category 02

19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of Pages	22. Price*
Unclassified	Unclassified		

* For sale by the National Technical Information Service, Springfield, Virginia 22161

NASA-C-168 (Rev. 10-75)

AN EXPERIMENTAL INVESTIGATION OF GAPWISE PERIODICITY AND UNSTEADY AERODYNAMIC RESPONSE IN AN OSCILLATING CASCADE
VOL. II: DATA REPORT

TABLE OF CONTENTS

SUMMARY

Tests were conducted on a linear cascade of airfoils oscillating in pitch to measure the unsteady pressure response on selected blades along the leading edge plane of the cascade, over the chord of the center blade, and on the sidewall in the plane of the leading edge. The tests were conducted for all 96 combinations of 2 mean camberline incidence angles (α_{MCL} = 2 and 6 deg), 2 pitching amplitudes ($\bar{\alpha}$ = 0.5 and 2 deg), 3 reduced frequencies (k = .072, .122, and .151 based on semi chord), and 8 interblade phase angles (σ = 0, $\pm$ 45, $\pm$ 90, $\pm$ 135, 180 deg). The pressure data were reduced to Fourier coefficient form for direct comparison, and were also processed to yield integrated loads and, particularly, the aerodynamic damping coefficient.

The experimental results of this program are presented in two volumes. The first volume (Ref. 1) describes the test procedure, discusses key results from the experiment, and provides a cursory comparison of experimental data and theoretical predictions. The present volume, in two parts, is a compilation of all data obtained during the test program, reproduced from the printout of the data reduction program. A further description of the contents of this report is found in the text that follows.

LIST OF SYMBOLS

Note: In this tabulation the first column is the heading from the computer printout reproduced herein, the second column is the equivalent physical symbol defined in Ref. 1, and these are followed by a brief definition.

Symbol in this report	Symbol in Ref. 1	Definition
ALPHA-BAR	$\bar{\alpha}$	pitching amplitude, deg
ALPHA-MCL	α_{MCL}	mean camberline incidence angle, deg
CMIMAG	C_{M_I}	imaginary part of moment coefficient per unit amplitude
CMREAL	C_{M_R}	real part of moment coefficient per unit amplitude
CM-MAG	$\bar{C}_M$	magnitude of moment coefficient per unit amplitude
CNIMAG	C_{N_I}	imaginary part of normal force coefficient per unit amplitude
CNREAL	C_{N_R}	real part of normal force coefficient per unit amplitude
CN-MAG	$\bar{C}_N$	magnitude of normal force coefficient per unit amplitude
CPIMAG	C_{p_I}	imaginary part of single surface pressure coefficient per unit amplitude
CPREAL	C_{p_R}	real part of single surface pressure coefficient per unit amplitude
CP-MAG	$\bar{C}_p$	magnitude of single surface pressure coefficient per unit amplitude
DELCPI	ΔC_{p_I}	imaginary part of pressure difference coefficient per unit amplitude
DELCPM	$\Delta \bar{C}_p$	magnitude of pressure difference coefficient per unit amplitude
DELCPR	ΔC_{p_R}	real part of pressure difference coefficient per unit amplitude

LIST OF SYMBOLS (Cont'd)

Symbol in this report	Symbol in Ref. 1	Definition
FILE	-	internal file number, used for computer access
K	k	reduced frequency
N	k	harmonic number
PHI	ϕ	phase angle lead relative to motion
PHIM	ϕ_M	moment phase angle lead relative to motion
PHIN	ϕ_N	normal force phase angle lead relative to motion
PDP RUN.PT	-	internal computer reference number
POINT	-	point number assigned during test
Q-COMP	q	dynamic pressure
RUN	-	run number assigned during test
SIGMA	σ	interblade phase angle
V-REF	V	reference velocity at blade 6
X	χ	dimensionless distance along chord
XI	Ξ	aerodynamic damping parameter

Supplementary Notes:

- All pressures are normalized with respect to Q-COMP = q and ALPHA-BAR = $\bar{\alpha}$ (in radians)
- The notation UPPER or LOWER in MODE 1 refers to the blade surface and pertains to the column of numbers beneath this notation
- The notation SUCTION or PRESSURE in MODE 2 refers to the blade surface and pertains to the tabulations to the right of this notation
- UPPER = SUCTION, LOWER = PRESSURE
- The values set equal to X = X are the chord fractions at which the measurements were made
- Imaginary part is out of phase and real part is in phase with the pitching motion.

DISCUSSION

The experimental procedures used and the results obtained from this program are both fully described in the companion technical report volume (Ref. 1). The objective of this data report is to provide full documentation for this experiment, in the form of reproduced computer printout of the data reduction program. However, for completeness, a brief description of the test program, model airfoils, and instrumentation will be included.

Oscillating Cascade Wind Tunnel

The experimental program was carried out in the UTRC linear subsonic Oscillating Cascade Wind Tunnel (OCWT). The test section of this facility is 25.4 cm (10 in) wide and 68.6 cm (27 in) high, and the sidewall configuration is currently arranged to accept 11 shaft-mounted blades in cascade. The bearing mounts for these blades are equally placed along a line making a 30 deg angle with respect to the tunnel floor, and hence the sidewall stagger angle of the OCWT is nominally 30 deg. The distance between blade shaft centers along the stagger line is 11.43 cm (4.5 in).

Test Airfoils

The cascade configuration consists of eleven NACA 65-series blades, each having a chord of $c = 15.24$ cm (6 in) and a span of 25.4 cm (10 in), with a 10 degree circular arc camber and a thickness-to-chord ratio of 0.06. The slant gap, measured along the blade-to-blade stagger line, is $\tau = 11.43$ cm (4.5 in) so the gap-to-chord ratio is $\tau/c = 0.75$.

For these tests the blade stagger angle, β_1^*, measured between the tangent to the blade mean camber line at the leading edge and the leading edge locus line, is 30 deg. The blade inlet angle, β_1, is measured between the inlet velocity, V, and the leading edge locus line. Hence, the mean camber line incidence angle is defined as $\alpha_{MCL} = \beta_1^* - \beta_1$. The blade profile coordinates, in fraction of chord, are contained in Table 1. The entire set of airfoils is coherently driven in a sinusoidal pitching motion with an amplitude of $\bar{\alpha}$.

Instrumentation

Conventional pneumatic wind tunnel instrumentation is used to measure the flow properties in the test section. A pitot probe downstream of the inlet honeycomb measures the total pressure in the tunnel, and sidewall static taps, aligned with the sidewall stagger angle, are used to measure the static pressure along the inlet and exit planes of the cascade. Tunnel speed is set by measuring the inlet plane static pressure at tunnel midheight and referring it to the pitot pressure to calculate the dynamic pressure, q.

The center airfoil (blade no. 6) was extensively instrumented to provide measurements of several flow parameters. Ten miniature high response pressure transducers were placed on each surface of the airfoil to obtain measurements of unsteady static pressures. This blade is shown schematically in Fig. 1.

Five other blades were also instrumented with miniature transducers. The blades are located in the cascade as shown in the schematic diagram in Fig. 2. Blade no. 6 is the fully instrumented center blade. Partial instrumentation was placed on blades no. 3, 4, 5, 7, and 9. Locations, in chord fraction, χ, of all transducer orifices are listed for all blades in Table 2a. As shown, blades 3, 5, 7, and 9 have suction surface orifices at χ = .0120, and .0622, and pressure surface orifices at χ = .0120. Blade 4 also has suction surface orifices at χ = .0120 and .0622 and has additional suction surface orifices at χ = .0050 and .0350 with no orifice on the pressure surface.

Finally, an array of ten miniature transducers were mounted in the tunnel sidewall in the plane of the blade leading edges, as shown schematically in Fig. 3. (For simplicity these locations are depicted as being slightly forward of the leading edge plane although they were actually coincident with the plane.) The gap fraction location, η, of each transducer relative to the suction surface of blade 6 is listed in Table 2b.

Test Plan

A total of 96 test conditions were run. These were comprised of all possible combinations of two mean camber line incidence angles (α_{MCL} = 2 deg, 6 deg), two pitching amplitudes ($\bar{\alpha}$ = 0.5, 2 deg) three frequencies (f = 9.2, 15.5, 19.2 Hz, and, for a constant velocity of 61 m/sec, or 200 ft/sec, this was equivalent to reduced frequencies $k = c\omega/2V = \pi cf/V$ = .072, .122, .151) and eight interblade phase angles (σ = 0 deg, $\pm$ 45 deg, $\pm$ 90 deg, $\pm$ 135 deg, 180 deg). In addition, two data runs were taken at each test condition. This was necessary because the number of desired data locations (47) exceeded the number of available data system channels (26). Hence, a relay was employed to switch between Mode 1, which contained all twenty blade-6 channels, five wall channels, and blade motion, and Mode 2, which contained all nineteen blade leading edge channels, six wall channels, and blade motion. Redundancy between modes was confined to the three leading edge stations on blade 6, one sidewall station, and blade motion. A tabulation of all data channels for each mode is contained in Table 3. In this table, the blade location is coded by a three symbol array denoting blade number, suction or pressure surface, and location sequence from leading edge. Wall stations are numbered consecutively. The numerical value for each location is either blade chord fraction, χ, or sidewall gap fraction, η.

Unsteady Data

The acquisition rate for all unsteady data was set at 1000 samples/sec. Thus, for the three nominal test frequencies, f = 9.2, 15.5, 19.2 Hz, there were 9.4, 15.9, and 19.7 cycles of data available for analysis, or conservatively, there were 9, 15, and 19 full cycles available. Data for each channel were Fourier analyzed, primarily to provide first, second, and third harmonic results for ease in analyses, but also to provide a compact means of data storage for subsequent use. These data have been completely tabulated in this data report. In each case a total of 10 harmonics are displayed for each unsteady channel.

Unsteady data for each pressure channel were reduced to dimensionless time history form by successive multiplications of the raw output (in computer counts) by the calibration constant for each channel (volt/count) and the calibration constant for each transducer (psi/volt); the results were then divided by the wind tunnel free stream dynamic pressure (psi) and by the blade pitching amplitude (rad). All results are harmonically referenced to the blade pitching motion (via Fourier analysis), and are normalized with respect to pitching amplitude.

Data Tabulations

All unsteady data, in reduced and normalized form, are contained in Tables 4 through 11. Mode 1 data are contained in this part of the data report in Tables 4 through 7, and Mode 2 data are contained in Part 2 of the data report in Tables 8 through 11. The sequence in each mode group is $\alpha = 2 \pm 0.5$ deg (Tables 4, 8), $\alpha = 2 \pm 2$ deg (Tables 5, 9), $\alpha = 6 \pm 0.5$ deg (Tables 6, 10), and $\alpha = 6 \pm 2$ deg (Tables 7, 10). Within each table are all combinations of interblade phase angle, σ, and reduced frequency, k, for which data were taken, as listed at the beginning of each table. All notation used in these tables is fully defined in the list of symbols in terms of the original notation of Ref. 1. For each parameter pair (σ and k), there are four pages of printout. These are different for each mode, and are described separately below.

Mode 1 tables contain primarily center blade data with integrated loads and some sidewall data on the third and fourth pages. Pages 1 and 2 of each set have single surface pressure data for each chordwise location, with 10 harmonics listed vertically for each item printed (N is harmonic number). The first page lists real and imaginary parts and the second page lists amplitude and phase angle of these single surface results. Pages 3 and 4 of each set contain differential pressure results for all ten chordwise locations. In addition, there are lists of normal force coefficient, moment coefficient, the integrated aerodynamic damping parameter, and a group of single surface sidewall pressures. The third page has all harmonic lists in real and imaginary form while the fourth page presents these as amplitudes and phase angles.

Mode 2 tabulations are more graphical in that the data arrangement on each pair of pages is akin to the relative locations of the measurement stations in physical space. Pages 1 and 2 of each set contain real and imaginary parts and pages 3 and 4 of each set contain amplitudes and phase angles. For each pair of pages (arranged as facing pages in the tables, for convenience) blade number, and hence cascade location, is distributed lengthwise on each page, while chordwise position on each blade is distributed crosswise on each page. (Note the isolated data for blade 4 at χ = .005 and .030 on the suction surface, and the missing data for this blade at χ = .012 on the pressure surface.) A single array of sidewall data is presented at the bottom of the tabulation on each pair of pages. To obtain the complete sidewall distribution for any desired combination of parameters, the reader should arrange the sidewall data from the appropriate pair of Mode 1, Mode 2 printouts in ascending order of gap fraction. (In such a case, it will be found that the run number is identical and the point numbers are consecutive.)

REFERENCE

1. Carta, F. O.: An Experimental Investigation of Gapwise Periodicity and Unsteady Aerodynamic Response in an Oscillating Cascade. Vol. I: Experimental and Theoretical Results. NASA CR 3513, 1982.

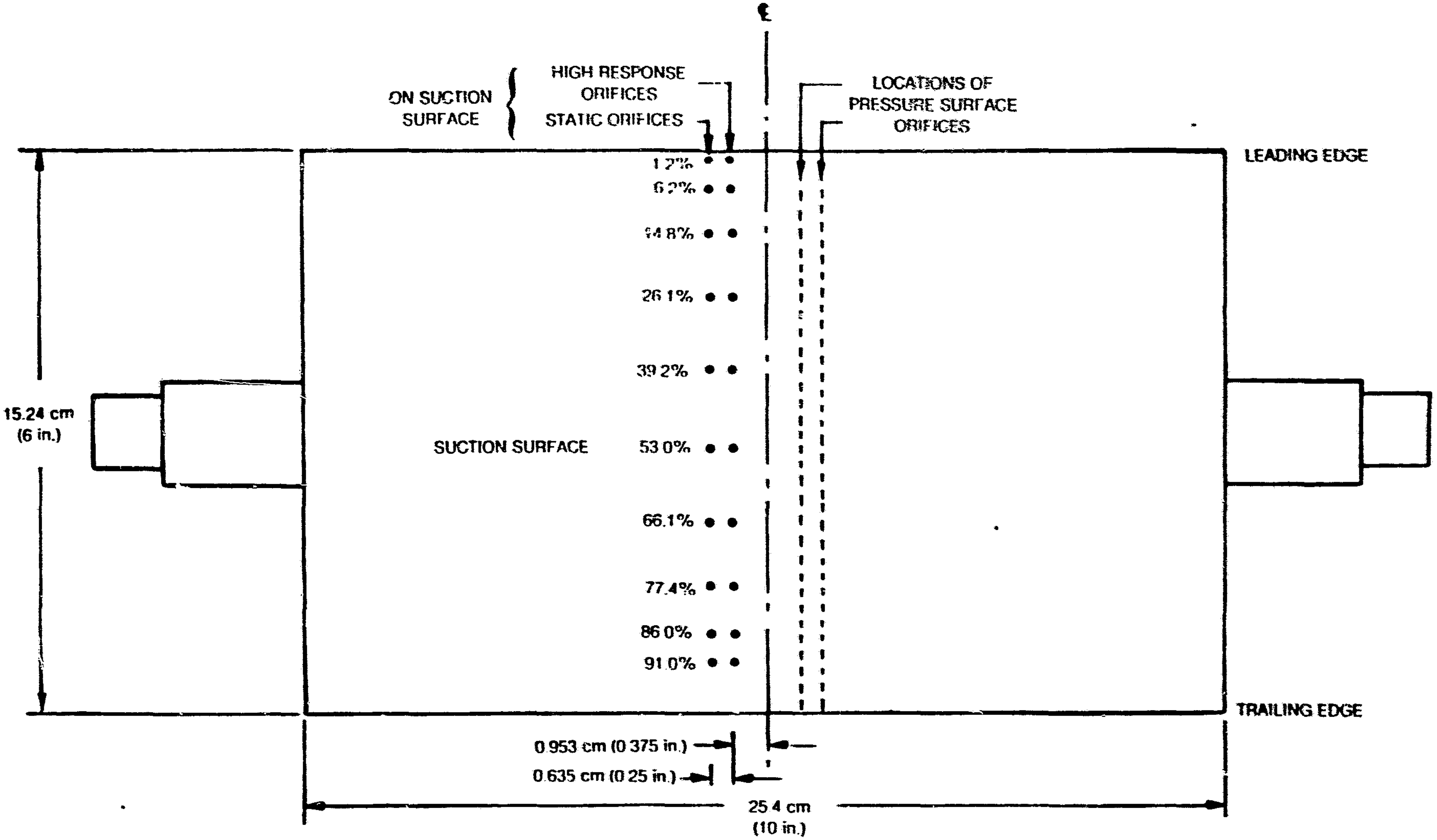

Figure 1 Schematic Plan View of Instrumented Airfoil

81-6-84-2

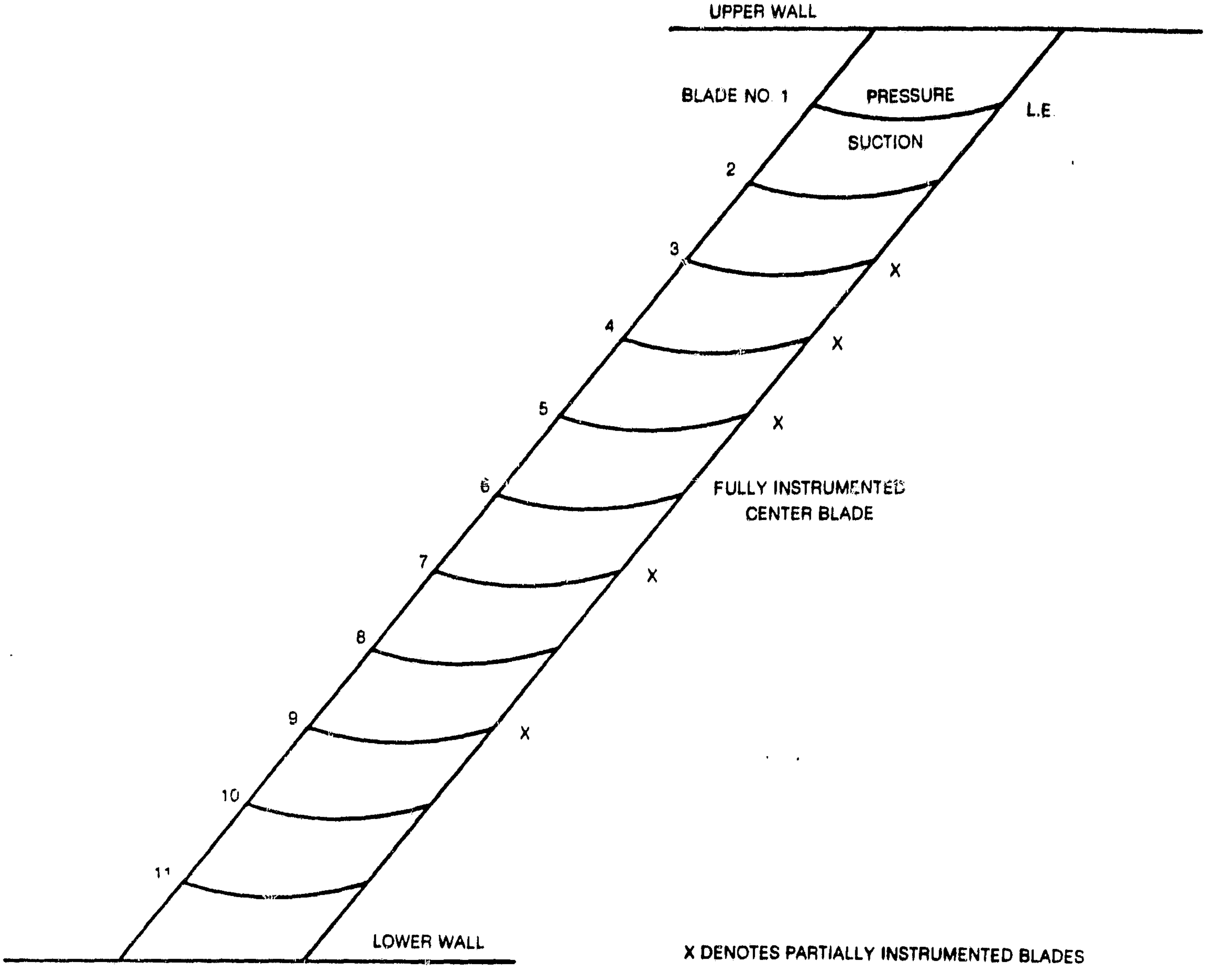

Figure 2 Schematic of Cascade Showing Instrumented Blades

81–6–84–3

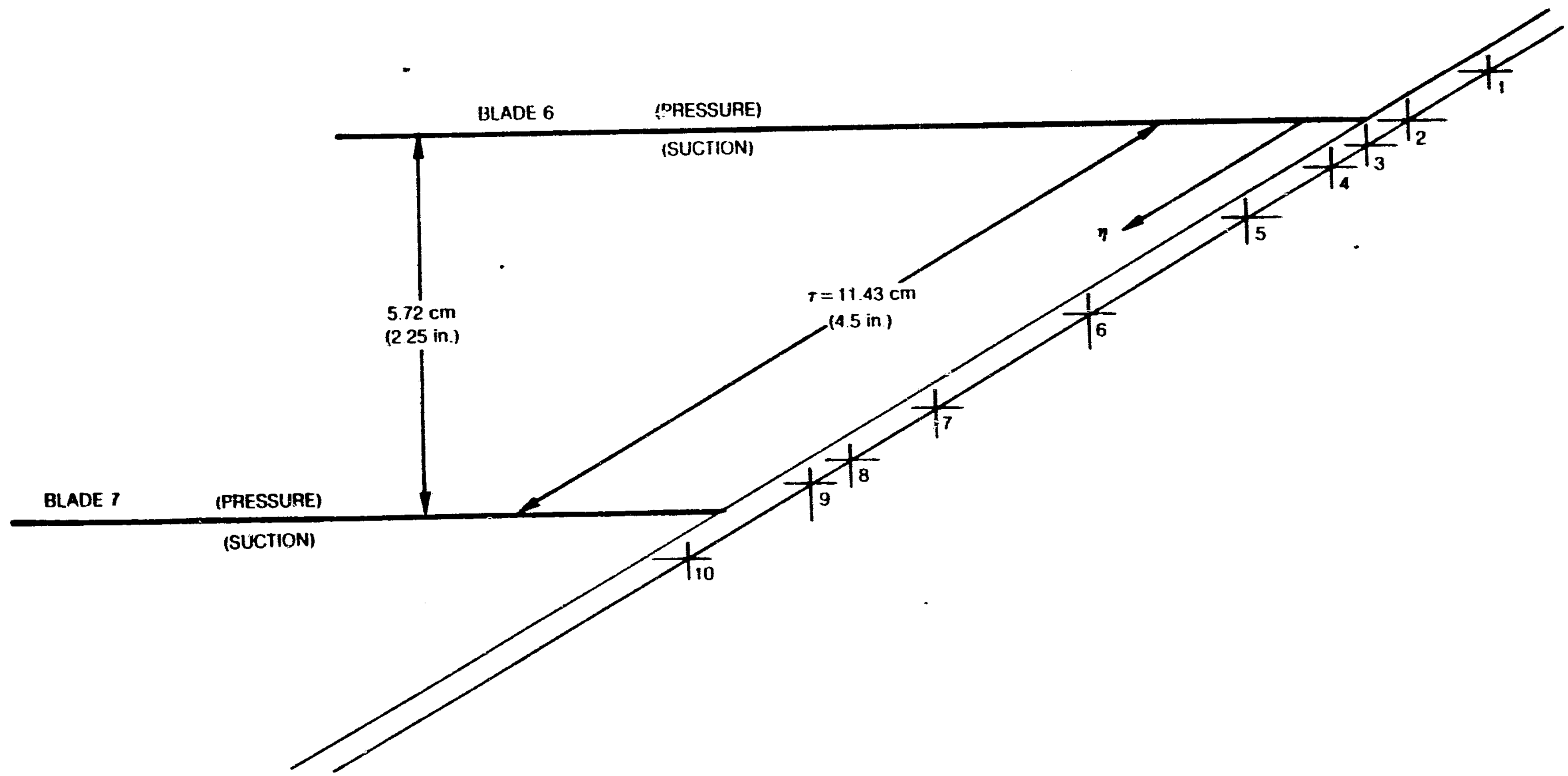

Figure 3 Sidewall Transducer Array

81–6–84–5

TABLE 1

DIMENSIONLESS AIRFOIL COORDINATES IN FRACTION OF CHORD

c = 15.24 cm (6 in.)

SUCTION SURFACE		PRESSURE SURFACE	
X	+y/c	X	-y/c
.0008	.0020	.0012	.0019
.0046	.0053	.0054	.0042
.0070	.0064	.0080	.0050
.0120	.0083	.0130	.0061
.0244	.0116	.0256	.0077
.0494	.0164	.0507	.0098
.0743	.0204	.0757	.0115
.0993	.0237	.1007	.0129
.1494	.0290	.1506	.0150
.1994	.0331	.2006	.0165
.2495	.0364	.2505	.0177
.2996	.0387	.3004	.0185
.3998	.0411	.4002	.0188
.5000	.0406	.5000	.0176
.6002	.0370	.5998	.0146
.7003	.0306	.6997	.0104
.8003	.0223	.7997	.0069
.8503	.0176	.8497	.0053
.9003	.0127	.8997	.0040
.9502	.0078	.9497	.0032
.9975	.0030	.9973	.0025

	RADIUS CENTER COORDINATES
L. E. RADIUS/c = .0024	X = .0024, y/c = .0002
T. E. RADIUS/c = .0028	X = .9972, y/c = .0003

TABLE 2

TRANSDUCER ORIFICE LOCATIONS
(FRACTION OF CHORD)

a) Blade Transducers, Fractions of Chord

Blade Number	Values of X	
	Suction Surface	Pressure Surface
6	.0120	.0120
	.0622	.0622
	.1478	.1478
	.2612	.2612
	.3924	.3924
	.5297	.5297
	.6608	.6608
	.7742	.7742
	.8598	.8598
	.9100	.9100
3,5,7,9	.0120	.0120
	.0622	
4	.0050	
	.0120	
	.0350	
	.0622	

b) Sidewall Transducers, Gap Fraction From Blade 6 Suction Surface

Wall Station Number	Gap Fraction η
1	-.125
2	.0
3	.062
4	.125
5	.25
6	.50
7	.75
8	.875
9	.938
10	1.125

TABLE 3

BLADE DATA CHANNELS

ATLAS CHANNEL NUMBER	MODE 1		MODE 2	
	BLADE OR WALL LOCATION	χ or η	BLADE OR WALL LOCATION	χ or η
1*	α	-	α	-
2*	6S1	.0120	6S1	.0120
3*	6S2	.0622	6S2	.0622
4	6S3	.1478	3S1	.0120
5	6S4	.2612	3S2	.0622
6	6S5	.3924	3P1	.0120
7	6S6	.5297	4S1	.0050
8	6S7	.6608	4S2	.0120
9	6S8	.7742	4S3	.0350
10	6S9	.8598	4S4	.0622
11	6S10	.9100	5S1	.0120
12*	6P1	.0120	6P1	.0120
13*	6P2	.0622	5S2	.0622
14	6P3	.1478	5P1	.0120
15	6P4	.2612	7S1	.0120
16	6P5	.3924	7S2	.0622
17	6P6	.5297	7P1	.0120
18	6P7	.6608	9S1	.0120
19	6P8	.7742	9S2	.0622
20	6P9	.8598	9P1	.0120
21	6P10	.9100	W3	.062
22	W1	-.125	W5	.250
23	W2	.000	W7	.750
24*	W4	.125	W4	.125
25	W6	.500	W8	.875
26	W10	1.125	W9	.938

* DENOTES REDUNDANT CHANNEL

NOTES:

- Blade location notation ---

  3S2 → blade 3, suction surface, second transducer aft of leading edge (P denotes pressure surface)

- Transducer location values ---

  χ is blade chord fraction
  η is sidewall gap fraction

TABLE 4

MODE 1 DATA FOR α_{MCL} = 2 deg, $\overline{\alpha}$ = 0.5 deg

σ (deg)	k	page
-135	.0714	18
"	.1230	22
"	.1523	26
-90	.0719	30
"	.1225	34
"	.1520	38
-45	.0715	42
"	.1225	46
"	.1514	50
0	.0715	54
"	.1210	58
"	.1503	62
45	.0722	66
"	.1219	70
"	.1526	74
90	.0716	78
"	.1219	82
"	.1507	86
135	.0717	90
"	.1227	94
"	.1526	98
180	.0714	102
"	.1213	106
"	.1504	110

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 70 ALPHA-MCL = 2.0 PDP RUN,PT 15.05
RUN 15 ALPHA-BAR = .5 Q-COMP = .32550
POINT 1 SIGMA =-135. V-REF = 200.12
COMPUTED FREQUENCY = 9.10, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-13.049	4.190	-8.505	1.126	-5.398	.007	-4.006	-.638	-3.207	-1.485	-4.229	-1.690	-4.177	-1.928
2	.579	-.898	.519	-.812	.482	-.818	.583	-.677	.608	-.755	.375	-.977	.456	-.915
3	1.876	-.706	1.901	-.868	1.937	-.890	1.918	-.799	2.074	-1.081	2.189	-.996	2.169	-1.033
4	.431	.588	.396	.636	.371	.674	.317	.670	.397	.721	.365	.722	.342	.734
5	.123	.292	.027	.333	.008	.323	-.036	.343	-.035	.380	-.073	.356	-.094	.336
6	-.172	-.067	-.220	-.040	-.249	-.041	-.269	-.043	-.278	-.076	-.277	-.066	-.265	-.068
7	-.166	.412	-.053	.349	-.023	.323	-.033	.318	-.023	.354	-.005	.347	.009	.348
8	-.066	-.020	-.106	-.050	-.131	-.058	-.129	-.070	-.134	-.072	-.144	-.082	-.123	-.082
9	-.044	.034	.025	.032	.039	.035	.052	.051	.073	.048	.076	.076	.072	.058
10	-.019	.009	-.036	.012	-.026	-.006	-.035	-.009	-.047	-.010	-.047	-.008	-.029	-.011

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.569	-1.877	-2.897	-1.746	-2.304	-1.506	14.615	-5.566	9.921	-5.453	4.089	-2.197	2.505	-1.684
2	.492	-.880	.512	-.881	.491	-.867	.104	-1.129	-.673	-1.084	.393	-.832	.416	-.810
3	2.151	-.989	2.158	-.971	2.129	-1.041	1.975	-1.231	1.809	-1.430	1.974	-1.066	2.005	-1.004
4	.338	.732	.347	.744	.373	.716	.340	.770	.415	.679	.355	.719	.329	.718
5	-.092	.321	-.089	.315	-.062	.303	-.019	.407	-.063	.388	-.007	.357	-.042	.343
6	-.257	-.073	-.266	-.079	-.259	-.066	-.284	.048	-.287	-.018	-.267	-.013	-.246	-.045
7	.037	.347	.017	.349	.029	.340	.113	.219	.070	.276	.044	.306	.007	.302
8	-.117	-.087	-.125	-.088	-.105	-.074	-.228	-.064	-.205	-.052	-.163	-.074	-.136	-.099
9	.069	.071	.072	.091	.077	.067	.146	.037	.121	.029	.095	.048	.083	.068
10	-.021	-.018	-.026	-.019	-.026	-.011	-.060	-.039	-.061	-.020	-.032	-.015	-.024	-.019

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.170	-1.150	.510	-1.154	-.750	-.530	-.428	-.979	-.123	-1.025	-.355	-1.534
2	.413	-.720	.605	-.965	.633	-.710	.357	-1.040	.429	-.738	.370	-.817
3	1.970	-.951	2.282	-1.152	2.067	-.847	2.167	-1.060	2.059	-1.029	2.075	-.961
4	.299	.670	.382	.820	.376	.716	.358	.764	.373	.720	.426	.685
5	-.035	.306	-.063	.351	-.031	.303	-.053	.321	-.065	.324	.001	.294
6	-.258	-.019	-.293	-.037	-.233	-.008	-.249	-.073	-.234	-.056	-.246	-.057
7	.033	.303	.028	.377	.042	.331	.017	.370	.036	.321	.031	.340
8	-.127	-.084	-.145	-.090	-.102	-.082	-.119	-.123	-.119	-.076	-.116	-.078
9	.089	.063	.098	.077	.066	.054	.078	.106	.073	.078	.067	.068
10	-.024	-.012	-.022	-.014	-.027	-.006	-.011	-.020	-.017	-.011	-.020	-.032

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 70 ALPHA-MCL = 2.0 PDP RUN.PT 15.05
RUN 15 ALPHA-PAR = .5 C-COMP = .32550
POINT 1 SIGMA =-135. V-REF = 230.12
COMPUTED FREQUENCY = 9.10, K = .0714

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.529	166.93	8.579	172.46	5.398	179.93	4.057	189.05	3.534	204.84	4.554	201.78	4.599	204.73
2	1.069	302.82	.963	302.54	.949	300.51	.893	312.75	.973	308.83	1.046	291.00	1.022	296.50
3	1.939	338.66	2.090	335.46	2.132	335.33	2.078	337.39	2.338	332.47	2.405	335.53	2.402	334.52
4	.729	53.72	.749	58.08	.770	61.15	.741	64.69	.823	61.15	.808	63.18	.810	65.00
5	.317	67.18	.334	85.44	.324	88.65	.345	96.06	.381	95.20	.363	101.61	.349	105.58
6	.149	207.00	.224	190.35	.253	189.26	.273	189.18	.288	195.34	.285	193.50	.274	194.48
7	.444	111.98	.353	98.66	.324	94.06	.319	95.89	.355	93.65	.347	90.88	.348	88.44
8	.069	196.60	.117	205.40	.144	203.87	.147	209.44	.152	208.19	.165	209.71	.148	213.48
9	.056	142.19	.041	52.12	.053	42.05	.073	44.55	.084	34.32	.108	44.73	.093	38.51
10	.021	155.26	.038	162.27	.026	193.69	.036	194.13	.043	191.51	.049	190.03	.031	200.24

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.033	207.74	3.382	211.07	2.752	213.17	15.640	339.15	11.321	331.21	4.642	331.75	3.019	326.09
2	1.008	299.19	1.019	300.16	.997	299.53	1.134	275.26	1.276	238.16	.921	295.30	.911	297.17
3	2.368	335.31	2.366	335.78	2.370	333.95	2.327	328.07	2.335	321.08	2.243	331.63	2.242	333.40
4	.806	65.20	.819	65.24	.807	62.47	.842	66.19	.796	58.55	.802	63.72	.790	65.36
5	.331	104.31	.327	105.77	.310	101.60	.408	92.72	.393	99.22	.357	91.05	.346	96.98
6	.268	196.87	.278	196.56	.268	194.29	.288	170.46	.288	183.64	.267	162.85	.250	190.25
7	.347	88.77	.349	87.88	.341	85.19	.246	62.80	.284	75.82	.309	81.88	.302	86.75
8	.146	216.49	.153	215.24	.128	215.34	.237	195.76	.212	194.29	.179	204.21	.168	216.06
9	.099	45.85	.108	48.24	.132	40.87	.151	14.14	.124	13.51	.107	26.85	.107	39.59
10	.028	221.90	.032	216.71	.029	202.21	.071	212.78	.064	198.50	.035	205.60	.031	218.41

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.591	313.75	1.261	293.84	.919	215.27	1.023	245.27	1.032	263.18	1.603	253.47
2	.833	300.15	1.055	304.96	.951	311.73	1.099	288.95	.853	300.08	.897	294.40
3	2.098	333.03	2.560	332.99	2.178	337.12	2.412	333.94	2.301	333.44	2.287	335.15
4	.734	65.97	.905	65.05	.809	62.28	.844	64.89	.813	62.32	.807	58.10
5	.308	96.52	.356	99.77	.305	95.81	.325	99.33	.331	101.57	.294	89.83
6	.259	184.27	.295	187.12	.233	181.88	.259	196.43	.241	193.51	.252	193.10
7	.309	83.89	.378	85.70	.334	82.82	.370	87.41	.323	83.66	.342	84.77
8	.152	213.25	.171	231.97	.131	218.07	.157	220.92	.142	212.47	.140	213.80
9	.107	33.82	.125	38.15	.085	39.00	.132	53.52	.137	47.30	.091	48.72
10	.027	206.15	.031	206.52	.028	193.41	.022	240.93	.021	213.40	.020	186.04

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 70 ALPHA-MCL = 2.0 PNP RUN.PT 15.05
RUN 15 ALPHA-BAR = .5 C-COMP = .32550
POINT 1 SIGMA =-135. V-REF = 200.12
COMPUTED FREQUENCY = 9.10, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	32.564	-9.756	18.426	-6.579	9.488	-2.204	6.511	-1.046	4.307	.335	4.739	.536	3.427	1.393
2	-.476	-.231	-1.191	-.272	-.088	-.015	-.167	-.133	-.190	.035	.230	.112	-.177	.205
3	.168	-.525	-.793	-.562	.036	-.176	.036	-.205	-.203	.129	.091	-.166	-.162	.187
4	-.072	.182	.019	.043	-.016	.045	.013	.048	-.093	-.051	.017	.099	.034	-.018
5	-.142	.115	-.090	.055	-.014	.034	-.006	.070	-.030	-.074	.013	-.005	.063	-.033
6	-.152	.115	-.067	.022	-.018	.027	.023	-.001	.020	.057	-.016	.030	.033	.061
7	.279	-.193	.123	-.074	.067	-.017	.039	-.016	.056	-.046	.034	.030	.032	-.017
8	-.162	-.045	-.110	-.002	-.032	-.015	-.006	-.029	.007	-.012	-.001	-.008	.021	-.001
9	.190	.003	.095	-.074	.056	.013	.031	.017	.019	.012	.022	.001	-.006	-.004
10	-.041	-.047	-.024	-.032	-.006	-.009	.010	-.011	.023	-.002	.019	-.006	.002	.004

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	3.141	.948	2.774	.721	1.848	-.029
2	-.135	-.160	-.084	.142	-.121	.051
3	.016	-.071	-.100	-.058	-.054	.080
4	.020	.032	.035	-.024	.053	-.031
5	.029	-.000	.023	.009	.063	-.009
6	.008	.005	.032	.023	.014	.009
7	.009	.023	.023	-.028	.003	.001
8	-.001	-.016	.005	.012	-.011	-.003
9	.079	.035	.001	-.002	-.017	.002
10	.010	-.001	.008	.007	.006	.009

N	CNREAL	CNIMAG
1	6.327	-.683
2	-.128	-.002
3	-.031	-.083
4	.000	.023
5	.007	-.005
6	.000	.030
7	.047	-.018
8	-.013	-.011
9	.026	.008
10	.006	-.005

N	CMREAL	CMIMAG
1	1.344	-.517
2	-.048	-.020
3	.007	-.038
4	-.006	.007
5	-.011	.004
6	-.006	.002
7	.011	-.007
8	-.007	-.002
9	.009	.000
10	-.002	-.003

*** STABILITY PARAMETER

* XI = .5169 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.030		.125		.530		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.186	-2.251	1.164	-2.122	-9.018	.766	-3.756	-.723	6.105	3.652
2	.590	-.965	.651	-.743	.719	-1.544	.663	-1.031	1.048	-1.292
3	2.698	-1.479	2.514	-1.631	2.724	-1.153	2.551	-1.117	2.288	-.854
4	.496	.902	.379	1.026	.525	.925	.364	.838	.489	1.063
5	.252	.551	.158	.539	-.051	.435	-.080	.422	.083	.441
6	-.059	-.071	-.495	-.040	-.257	-.090	-.348	-.075	-.167	-.085
7	.063	.424	-.215	.485	-.002	.467	-.026	.390	-.208	.248
8	[illegible]	-.095	-.114	-.032	-.181	-.090	-.151	-.077	-.069	-.137
9	[illegible]	.045	-.012	.040	.115	.093	.082	.086	.096	.131
10	-.053	-.008	-.120	.012	-.027	-.015	-.076	-.003	-.006	-.071

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 70 ALPHA-MCL = 2.0 PDP RUN.PT 15.05
RUN 15 ALPHA-BAR = .5 Q-COMP = .32550
POINT 1 SIGMA =-135. V-REF = 200.12
COMPUTED FREQUENCY = 9.13, K = .0714

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	34.090	343.37	19.565	340.35	9.740	346.92	6.595	350.87	4.323	4.45	4.769	6.86	3.700	22.12
2	.529	235.91	1.222	192.85	.090	189.45	.213	219.57	.193	169.47	.255	25.88	.271	49.16
3	.551	287.78	.569	260.63	.180	281.69	.222	292.86	.241	147.53	.189	298.77	.247	130.96
4	.294	116.73	.048	66.07	.048	110.19	.050	75.28	.113	207.23	.100	80.24	.038	332.14
5	.183	141.10	.105	148.39	.036	112.87	.006	174.93	.074	269.74	.014	337.79	.071	332.21
6	.191	142.82	.071	161.97	.033	123.07	.023	357.31	.063	71.09	.034	117.61	.069	61.76
7	.339	325.33	.143	329.11	.069	345.35	.042	339.36	.072	320.22	.045	41.39	.036	332.57
8	.168	195.42	.100	181.18	.036	205.60	.029	257.76	.013	300.40	.008	262.55	.021	358.35
9	.190	.82	.095	357.88	.057	12.81	.035	29.73	.023	31.36	.022	3.42	.007	212.75
10	.062	229.27	.040	232.42	.011	235.27	.015	314.65	.023	354.77	.020	344.16	.005	63.32

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.241	16.79	2.866	14.57	1.849	359.13
2	.209	225.83	.166	120.58	.131	157.25
3	.073	282.52	.116	210.15	.096	124.17
4	.038	58.23	.042	325.74	.062	329.89
5	.029	359.09	.024	22.59	.064	351.50
6	.009	29.03	.039	35.55	.016	33.09
7	.025	67.74	.036	309.25	.003	14.85
8	.016	265.16	.013	65.90	.012	196.95
9	.036	75.28	.002	299.69	.017	174.00
10	.010	353.17	.011	40.92	.011	54.82

N	CN-MAG	PHIN
1	6.364	353.84
2	.128	181.11
3	.088	249.67
4	.023	89.44
5	.008	325.38
6	.030	89.93
7	.051	338.98
8	.017	218.88
9	.027	17.30
10	.008	317.38

N	CM-MAG	PHIM
1	1.440	338.96
2	.055	202.62
3	.039	280.15
4	.010	132.56
5	.011	157.26
6	.006	161.60
7	.013	327.46
8	.007	195.68
9	.009	.95
10	.003	239.15

*** STABILITY PARAMETER

* XI = .5169 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.526	296.99	2.420	298.76	9.050	175.15	3.825	191.89	7.114	30.89
2	1.131	301.43	.988	311.21	1.733	294.97	1.226	302.74	1.663	309.03
3	3.344	332.41	2.996	327.03	2.958	337.05	2.785	336.35	2.442	339.54
4	1.029	61.21	1.094	69.72	1.063	60.40	.914	66.50	1.170	65.29
5	.558	84.59	.562	73.66	.438	96.70	.429	103.70	.449	79.41
6	.360	185.00	.497	184.64	.269	197.35	.356	192.15	.181	208.07
7	.429	80.90	.531	113.87	.467	90.30	.391	93.86	.324	129.90
8	.227	204.58	.118	194.55	.232	236.34	.170	207.13	.153	243.32
9	.378	35.43	.042	136.13	.142	35.97	.119	46.56	.162	53.86
10	.054	188.89	.121	174.38	.031	209.12	.076	182.27	.071	265.26

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 72 ALPHA-MCL = 2.0 POP RUN.PT 15.07
RUN 15 ALPHA-PAP = .5 Q-COMP = .32172
POINT 3 SIGMA =-135. V-REF = 198.94
COMPUTED FREQUENCY = 15.57, K = .1230

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.253	5.559	-7.496	2.178	-4.360	.955	-2.827	.196	-2.068	-.648	-2.998	-.778	-2.855	-.950
2	.030	-.368	.130	-.295	.124	-.281	.340	-.101	.226	-.264	-.018	-.373	.095	-.300
3	-.182	-.254	-.189	-.218	-.197	-.220	-.231	-.037	-.218	-.361	-.190	-.263	-.184	-.238
4	-.118	-.086	-.123	-.072	-.129	-.074	-.226	-.043	-.049	-.093	-.116	-.040	-.126	-.028
5	.143	-.025	.046	-.074	.014	-.083	-.033	-.133	.020	-.094	.004	-.125	-.005	-.142
6	-.030	-.033	-.004	-.058	.022	-.082	.020	-.104	.056	-.098	.059	-.104	.038	-.089
7	.004	.064	.015	.034	.023	.019	.016	.004	.022	.013	.013	.007	.029	.000
8	-.035	-.050	-.034	-.068	-.031	-.087	-.023	-.092	-.001	-.108	-.020	-.099	-.017	-.108
9	-.002	.048	-.016	.035	-.016	.030	-.019	.030	-.009	.020	-.014	.022	-.018	.008
10	.044	-.003	.039	-.009	.043	-.018	.055	-.021	.047	-.024	.065	-.019	.065	-.014

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.254	-.929	-1.581	-.769	-1.024	-.512	15.946	-4.983	10.416	-4.844	5.398	-1.191	3.780	-.542
2	.122	-.278	.140	-.282	.109	-.283	-.236	-.707	-1.138	-.180	.071	-.311	.091	-.282
3	-.190	-.239	-.191	-.234	-.214	-.215	-.337	-.180	-.530	-.217	-.271	-.192	-.248	-.211
4	-.128	-.039	-.134	-.035	-.139	-.031	-.070	-.050	-.141	-.149	-.101	-.054	-.098	-.063
5	-.001	-.148	.000	-.158	-.009	-.157	-.129	-.243	-.096	-.129	-.046	-.174	-.002	-.154
6	.042	-.074	.047	-.079	.033	-.079	.076	-.131	.049	-.130	.030	-.101	.038	-.081
7	.020	.007	.019	-.004	.020	-.010	.044	-.103	.029	-.054	.017	-.031	.014	-.023
8	-.020	-.135	-.014	-.110	-.019	-.095	.004	-.145	-.008	-.128	-.006	-.109	.017	-.114
9	-.015	.014	-.013	.019	-.011	.020	-.009	.011	-.014	.014	-.006	.022	-.013	.013
10	.058	-.015	.058	-.013	.057	-.014	.019	-.022	.026	-.022	.041	-.010	.056	-.000

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.261	-.099	1.857	.166	.581	.694	.705	.371	.660	-.110	.513	-.434
2	.132	-.231	.211	-.256	.525	-.167	-.135	-.399	.035	-.327	.000	-.229
3	-.235	-.244	-.303	-.332	-.244	-.247	-.267	-.207	-.231	-.213	-.237	-.219
4	-.121	-.014	-.155	-.027	-.099	-.082	-.151	-.022	-.162	-.033	-.151	-.034
5	-.011	-.156	-.011	-.189	-.031	-.149	.032	-.157	.030	-.152	.025	-.148
6	.023	-.076	.035	-.073	.051	-.079	.017	-.088	.027	-.085	.039	[illegible]
7	.017	-.023	.015	-.029	.014	-.021	.001	-.006	.016	-.012	.013	[illegible]
8	-.016	-.093	-.017	-.112	-.020	-.094	-.015	-.100	-.006	-.093	-.010	-.093
9	-.004	.027	-.004	.020	-.007	.026	-.012	.025	-.005	.021	-.009	.017
10	.036	-.058	.057	-.004	.053	.004	.055	-.006	.058	-.000	.061	-.005

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 72 ALPHA-MCL = 2.0 PDP RUN.PT 15.07
RUN 15 ALPHA-BAR = .5 Q-COMP = .32172
POINT 3 SIGMA =-135. V-REF = 198.94
COMPUTED FREQUENCY = 15.57, K = .1230

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.126	162.14	7.806	163.79	4.464	167.65	2.834	176.02	2.168	197.40	3.098	194.55	3.009	198.41
2	.370	274.62	.322	293.72	.308	293.79	.355	343.41	.348	310.50	.373	267.21	.315	287.51
3	.312	234.40	.289	229.07	.295	228.16	.234	189.02	.422	238.85	.324	234.09	.300	232.35
4	.146	216.16	.143	[illegible]	.149	209.89	.230	190.84	.105	242.08	.122	199.00	.129	192.57
5	.145	350.22	.087	302.13	.084	279.29	.137	255.96	.096	282.10	.125	271.97	.142	267.88
6	.044	227.70	.068	266.32	.085	285.25	.106	280.87	.113	299.57	.120	299.42	.097	293.02
7	.064	66.59	.037	66.30	.029	39.78	.017	14.41	.025	31.09	.014	28.56	.029	.40
8	.061	234.83	.076	243.54	.092	250.10	.095	255.96	.108	269.37	.101	258.66	.109	260.60
9	.049	92.80	.039	114.60	.034	117.44	.035	122.71	.022	113.05	.026	122.05	.020	155.77
10	.044	355.54	.041	346.68	.047	337.90	.059	339.20	.053	332.66	.067	343.81	.067	348.06

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.438	202.40	1.758	205.93	1.145	206.55	16.707	342.65	11.487	335.06	5.528	347.56	3.819	351.85
2	.303	293.79	.315	296.44	.303	291.01	.745	251.55	1.152	189.01	.319	282.88	.297	287.80
3	.305	231.58	.302	230.86	.304	225.13	.382	208.09	.572	202.29	.332	215.27	.326	220.38
4	.134	196.94	.138	194.54	.142	192.47	.085	215.41	.205	226.58	.115	208.18	.117	212.62
5	.148	269.51	.158	270.04	.158	266.66	.275	241.98	.161	233.43	.180	255.29	.154	269.43
6	.085	299.41	.092	300.86	.086	292.71	.152	300.21	.139	290.71	.106	286.53	.090	295.26
7	.021	20.15	.020	347.01	.022	332.35	.113	293.25	.062	297.98	.036	298.55	.027	302.32
8	.107	259.33	.111	262.59	.097	258.91	.145	271.47	.129	266.65	.110	267.12	.115	278.68
9	.021	137.16	.023	124.42	.022	118.05	.014	131.51	.020	134.79	.022	105.85	.019	134.88
10	.070	347.47	.069	349.09	.058	345.65	.029	311.02	.034	319.43	.042	346.18	.056	359.59

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.264	357.48	1.865	5.12	.905	50.05	.796	27.73	.969	350.56	.672	319.77
2	.266	299.70	.332	309.51	.551	342.32	[illegible]	251.33	.328	276.15	.229	270.03
3	.339	226.05	.450	227.59	.347	225.24	[illegible]	217.78	.314	222.71	.323	222.76
4	.122	186.78	.158	189.79	.128	219.72	[illegible]	188.32	.165	191.56	.155	192.54
5	.156	265.79	.189	266.68	.152	258.35	.160	281.59	.155	281.20	.150	279.45
6	.079	286.80	.081	295.44	.093	302.98	.089	281.25	.089	287.54	.086	297.00
7	.029	307.14	.032	298.14	.025	303.40	.006	283.24	.020	323.65	.024	303.12
8	.095	260.31	.113	265.00	.096	258.02	.101	261.36	.093	266.35	.093	263.80
9	.020	101.24	.021	100.62	.027	105.65	.028	114.67	.021	103.67	.019	119.31
10	.037	348.38	.059	356.22	.053	4.30	.055	354.12	.058	359.54	.061	355.73

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

PCMT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 72 ALPHA-MCL = 2.0 PDP RUN.PT 15.37
RUN 15 ALPHA-PAR = .5 Q-COMP = .32172
POINT 3 SIGMA =-175. V-REF = 198.94
COMPUTED FREQUENCY = 15.57, K = .1230

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.199	-10.542	17.911	-7.022	9.758	-2.146	6.607	-.738	4.330	.549	4.836	.945	3.436	1.644
2	-.266	-.338	-1.268	.115	-.053	-.029	-.249	-.181	-.094	.034	.229	.117	.430	.133
3	-.155	.074	-.340	.001	-.074	.028	-.017	-.174	-.017	.117	-.113	-.069	-.061	-.009
4	.046	.037	-.015	-.077	.028	.020	.129	-.020	-.072	.078	-.040	.013	.027	-.054
5	-.273	-.219	-.142	-.056	-.059	-.091	.032	-.021	-.032	-.062	-.015	-.063	-.025	-.008
6	.106	-.098	.053	-.062	.006	-.019	.019	.023	-.033	.023	-.024	.032	.013	.011
7	.041	-.168	.014	-.099	-.006	-.057	-.002	-.027	-.004	-.036	.033	-.035	-.015	-.021
8	.039	-.045	.026	-.060	.026	-.023	.040	-.022	-.015	.014	.010	-.013	-.002	.014
9	-.007	-.038	.037	-.022	.010	-.009	.056	-.016	.005	-.000	.018	-.002	.011	.018
10	-.025	-.019	-.014	-.013	-.002	.007	.001	.021	-.011	.017	-.006	.015	-.012	.018

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.959	1.300	2.241	.659	1.538	.078
2	-.257	-.122	-.105	-.045	-.108	.053
3	-.077	.032	-.040	.021	-.023	-.004
4	-.023	.017	-.029	.002	-.012	-.003
5	.034	-.009	.030	.006	.034	.009
6	-.025	-.013	-.020	-.007	.006	.002
7	-.016	-.013	-.003	-.008	-.007	-.009
8	.005	.005	.009	.017	.009	.003
9	.004	.011	.005	.002	.001	-.003
10	-.013	.010	-.017	.013	.004	.010

N	CNREAL	CNIMAG
1	6.293	-.536
2	-.101	-.001
3	-.075	-.007
4	.002	.003
5	-.022	-.040
6	.001	.001
7	-.003	-.035
8	.011	-.009
9	.006	-.003
10	-.007	.011

N	CMREAL	CMIMAG
1	1.375	-.547
2	-.049	-.009
3	-.011	-.002
4	.005	.000
5	-.012	-.010
6	.004	-.003
7	.002	-.007
8	.003	-.005
9	.000	-.003
10	-.000	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
CAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.721	-.920	2.553	-.953	-7.568	2.200	-2.273	.454	7.357	4.547
2	.197	-.289	.176	-.054	.053	-.947	.164	-.416	.693	-.658
3	-.332	-.287	-.275	-.332	-.204	-.326	-.262	-.297	-.320	-.320
4	-.135	-.096	.061	.011	-.233	-.161	-.176	-.098	-.187	-.094
5	-.046	-.195	-.098	-.261	.022	-.124	-.003	-.109	.104	-.087
6	.012	-.125	.017	-.104	.044	-.117	.039	-.096	.078	-.130
7	.025	-.047	-.002	.026	.029	.029	.044	.020	-.006	-.014
8	-.032	-.113	-.042	-.086	-.032	-.142	-.023	-.126	-.007	-.129
9	-.014	.047	.060	.052	-.032	.027	-.005	.050	-.035	.095
10	.035	-.025	.031	.014	.071	-.030	.052	-.017	.074	-.016

*** STABILITY PARAMETER

* XI = .5472 *

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 72 ALPHA-MCL = 2.0 PDP RUN.PT 15.07
RUN 15 ALPHA-BAR = .5 Q-COMP = .32172
POINT 3 SIGMA =-135. V-REF = 198.94
COMPUTED FREQUENCY = 15.57, K = .1230

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	34.833	342.38	19.239	338.59	9.991	347.60	6.648	353.63	4.364	7.22	4.947	11.01	3.809	25.57
2	.430	231.86	1.273	174.83	.061	208.87	.308	216.01	.100	160.34	.257	27.00	.451	17.16
3	.172	154.52	.340	179.79	.080	159.45	.175	264.49	.118	98.29	.133	211.54	.062	188.10
4	.061	37.22	.079	256.74	.035	35.55	.129	351.30	.106	132.42	.042	161.87	.060	296.96
5	.349	218.66	.153	201.38	.109	236.97	.038	326.98	.069	242.99	.065	256.45	.027	196.53
6	.185	317.26	.082	310.76	.021	291.79	.029	50.65	.040	185.38	.040	127.51	.017	40.40
7	.173	283.61	.090	278.92	.051	263.63	.027	265.53	.036	263.08	.036	274.20	.026	233.56
8	.102	292.39	.066	293.55	.034	318.96	.046	331.36	.021	135.54	.017	307.37	.014	99.72
9	.039	259.55	.022	276.48	.013	317.67	.017	289.20	.005	355.84	.010	350.99	.021	59.55
10	.031	216.97	.019	222.55	.006	105.06	.021	86.42	.020	122.18	.016	111.24	.021	124.16

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.232	23.71	2.336	16.39	1.540	2.89
2	.285	205.30	.114	203.05	.121	153.75
3	.083	157.19	.045	152.25	.023	189.41
4	.029	144.07	.028	176.76	.013	193.32
5	.035	345.17	.031	12.05	.035	15.25
6	.028	208.37	.021	198.08	.006	17.34
7	.022	215.54	.008	250.	.012	233.53
8	.007	47.12	.019	64.[illegible]	.009	17.44
9	.012	71.51	.008	11.82	.003	290.96
10	.016	144.15	.016	129.22	.011	66.37

N	CN-MAG	PHIN
1	6.316	355.13
2	.101	180.43
3	.075	165.33
4	.004	50.25
5	.046	241.46
6	.001	44.20
7	.035	264.41
8	.014	323.26
9	.006	335.58
10	.013	122.53

N	CM-MAG	PHIM
1	1.480	338.30
2	.050	189.95
3	.011	190.55
4	.005	1.76
5	.016	217.97
6	.005	324.52
7	.007	284.87
8	.006	296.98
9	.003	270.17
10	.001	247.88

*** STABILITY PARAMETER

XI = .5472

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.872	341.33	2.724	329.58	7.881	163.79	2.316	166.68	8.597	31.15
2	.350	304.26	.184	342.81	.849	273.59	.447	291.48	.956	316.45
3	.439	220.92	.409	227.71	.385	237.95	.396	228.63	.453	225.07
4	.168	215.66	.062	10.10	.283	214.66	.202	209.15	.203	207.52
5	.203	256.76	.279	249.51	.126	279.92	.109	268.55	.136	319.98
6	.136	275.21	.105	279.15	.125	290.47	.103	291.93	.152	301.11
7	.053	298.25	.026	94.65	.041	44.77	.048	24.25	.015	245.67
8	.118	254.08	.096	244.01	.146	257.46	.128	259.77	.130	267.03
9	.049	106.57	.080	41.08	.042	139.56	.050	96.23	.102	110.31
10	.043	324.05	.034	26.23	.077	337.30	.054	341.30	.076	348.20

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 75 ALPHA-MCL = 2.0 PDP RUN.PT 15.09
RUN 15 ALPHA-SAP = .5 Q-COMP = .32027
POINT 6 SIGMA =-135. V-REF = 198.46
COMPUTED FREQUENCY = 19.25, K = .1523

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.446	6.000	-7.481	2.334	-4.619	1.029	-3.065	.203	-2.382	-.692	-3.333	-.770	-3.141	-.937
2	-.320	-.114	-.207	.040	-.203	.067	.014	.246	-.123	.093	-.400	.062	-.286	.114
3	-.032	.501	.050	.351	.055	.300	.065	.463	.090	.096	.120	.260	.154	.257
4	.150	-.094	-.020	-.143	-.045	-.153	-.120	-.145	.026	-.258	-.031	-.207	-.034	-.212
5	.055	.057	.054	.039	.052	.040	.014	.031	.058	.070	.024	.049	.019	.040
6	-.045	.196	-.086	.123	-.107	.107	-.126	.078	-.140	.097	-.131	.086	-.118	.058
7	.009	-.046	.039	-.007	.051	.011	.046	.019	.052	.038	.051	.050	.047	.055
8	.069	-.025	.049	-.023	.044	-.025	.044	-.027	.030	-.020	.035	-.028	.027	-.023
9	-.069	-.086	-.017	-.048	-.020	-.036	.009	-.031	.016	-.034	.017	-.037	.018	-.026
10	.053	.023	.024	.012	.012	.014	.007	.016	.009	.014	.032	.008	-.006	.008

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.562	-.905	-1.877	-.744	-1.321	-.480	15.658	-5.066	9.732	-4.991	5.151	-1.073	3.515	-.391
2	-.261	.112	-.274	.118	-.295	.132	-.556	-.214	-1.294	.491	-.279	.091	-.275	.113
3	.170	.279	.169	.304	.179	.281	.331	.021	.018	.175	.216	.194	.178	.227
4	-.006	-.223	-.003	-.251	.010	-.230	-.301	-.277	-.250	-.239	-.122	-.252	-.033	-.250
5	.026	.038	.031	.034	.039	.035	.056	.066	.085	.083	.045	.045	.039	.036
6	-.128	.059	-.122	.061	-.120	.065	-.168	-.047	-.145	.005	-.116	.020	-.125	.011
7	.037	.053	.033	.058	.030	.047	.074	.111	.064	.084	.043	.067	.031	.069
8	.018	-.027	.017	-.028	.012	-.032	-.009	-.060	-.001	-.068	.014	-.054	.028	-.043
9	.020	-.026	.018	-.025	.019	-.027	.094	.028	.070	.024	.040	.002	.038	-.002
10	-.005	.007	-.005	.009	-.005	.002	-.058	-.021	-.046	-.015	-.030	-.008	-.025	-.007

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.984	.064	1.533	.375	.311	.932	.408	.528	.400	-.026	.137	-.313
2	-.222	.149	-.225	.173	.154	.172	-.586	.051	-.348	.130	-.305	.173
3	.159	.198	.164	.218	.183	.267	.163	.314	.172	.286	.190	.262
4	-.056	-.232	-.023	-.285	.015	-.340	.001	-.246	.019	-.209	.008	-.249
5	.039	.022	.028	.038	-.000	.044	.066	.024	.057	.015	.062	.030
6	-.093	.051	-.099	.063	-.089	.060	-.112	.036	-.117	.044	-.112	.053
7	.034	.047	.032	.054	.028	.055	.028	.053	.030	.061	.039	.056
8	.020	-.039	.026	-.044	.027	-.026	.018	-.040	.013	-.031	.009	-.031
9	.022	-.011	.026	-.020	.015	-.026	.022	-.010	.021	-.012	.019	-.018
10	-.011	-.005	-.010	-.005	-.007	-.001	-.004	-.006	-.007	-.004	.003	-.001

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 75 ALPHA-MCL = 2.0 PDP RUN.PT 15.09
RUN 15 ALPHA-BAR = .5 Q-COMP = .32027
POINT 6 SIGMA =-135. V-REF = 198.48
COMPUTED FREQUENCY = 19.25, K = .1523

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.449	161.02	8.027	163.10	4.732	167.43	3.072	176.22	2.481	196.20	3.421	193.01	3.278	196.61
2	.340	199.52	.210	169.16	.214	161.60	.247	86.60	.154	142.98	.405	171.21	.308	158.28
3	.502	93.68	.354	81.84	.305	79.52	.468	81.97	.131	47.02	.286	65.24	.300	59.14
4	.177	328.00	.144	262.09	.160	253.59	.189	230.56	.259	275.84	.209	261.45	.215	260.85
5	.079	45.79	.066	35.66	.065	37.48	.034	66.17	.091	50.73	.055	63.58	.044	64.39
6	.202	103.03	.150	124.94	.152	134.93	.149	148.15	.170	145.37	.157	146.73	.132	153.97
7	.047	281.26	.039	350.20	.053	12.51	.049	22.32	.064	35.91	.071	44.10	.072	49.51
8	.074	300.38	.054	335.36	.051	329.81	.052	327.90	.036	325.66	.045	321.99	.035	318.59
9	.110	231.18	.050	250.69	.036	269.43	.032	286.66	.038	294.67	.041	295.29	.031	304.40
10	.058	23.27	.027	27.27	.018	48.67	.018	65.81	.016	56.69	.008	73.60	.010	124.30

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.717	199.45	2.015	201.69	1.405	199.97	16.457	342.07	10.937	332.85	5.261	348.23	3.536	353.65
2	.284	156.67	.298	156.71	.323	155.84	.596	201.04	1.384	159.23	.294	161.95	.297	157.55
3	.326	58.63	.348	60.98	.333	57.43	.331	3.56	.179	84.15	.290	41.87	.288	51.95
4	.223	268.53	.251	269.37	.230	272.38	.409	222.61	.346	223.72	.240	244.23	.254	260.20
5	.046	56.09	.046	48.43	.052	41.86	.087	49.45	.119	44.28	.064	45.46	.053	42.85
6	.141	155.08	.136	153.37	.136	151.69	.175	195.45	.145	178.12	.118	170.42	.125	174.95
7	.064	55.20	.067	60.62	.055	57.62	.134	56.39	.105	52.74	.080	57.06	.075	66.03
8	.028	308.29	.031	295.38	.034	291.35	.061	261.78	.068	268.97	.056	284.47	.051	303.23
9	.033	307.59	.031	306.52	.030	308.56	.098	16.35	.074	18.72	.040	2.69	.038	357.20
10	.009	124.83	.013	131.81	.006	156.67	.062	199.61	.049	198.26	.032	195.46	.026	194.75

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.985	1.84	1.579	13.75	.983	71.55	.667	52.31	.401	356.29	.342	293.66
2	.267	146.03	.283	142.43	.231	48.11	.588	175.05	.371	159.54	.350	150.45
3	.260	49.51	.273	53.04	.324	55.52	.363	59.70	.334	58.95	.324	54.01
4	.239	256.34	.286	265.30	.341	272.59	.246	270.28	.210	275.31	.249	271.80
5	.045	29.47	.047	53.39	.044	90.39	.070	20.14	.059	14.39	.069	25.85
6	.106	151.42	.117	147.36	.107	146.10	.118	162.31	.126	159.30	.124	154.80
7	.059	53.95	.063	59.49	.062	62.71	.060	62.18	.068	63.72	.068	54.95
8	.044	296.68	.051	300.12	.037	315.71	.044	294.89	.034	293.22	.032	286.47
9	.024	333.37	.032	322.65	.030	299.79	.024	334.54	.024	330.30	.026	316.02
10	.012	206.06	.011	205.96	.007	185.04	.007	231.57	.008	209.77	.004	337.33

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	75	ALPHA-MCL = 2.0	PDP RUN.PT	15.09
RUN	15	ALPHA-BAR = .5	O-COMP =	.32027
POINT	6	SIGMA =-135.	V-REF =	198.48

COMPUTED FRECUENCY = 19.25, K = .1523

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.104	-11.066	17.413	-7.325	9.769	-2.102	6.580	-.594	4.366	.756	4.866	1.145	3.452	1.869
2	-.236	-.100	-1.088	.451	-.076	.024	-.288	-.133	-.098	.056	.175	.111	.440	.058
3	.363	-.480	-.032	-.173	.161	-.106	.112	-.236	.079	.102	.044	-.041	.029	.010
4	-.451	-.184	-.230	-.096	-.077	-.099	.077	-.104	-.083	.026	.038	-.078	.049	-.129
5	.001	.009	.031	.044	-.007	.006	.025	.005	-.019	-.049	.034	-.011	-.019	.004
6	-.123	-.243	-.059	-.118	-.009	-.088	.002	-.067	.047	-.046	.033	-.023	.029	.002
7	.065	.158	.025	.091	-.008	.055	-.015	.050	-.018	.010	-.019	.005	-.018	.000
8	-.078	-.035	-.057	-.045	-.030	-.029	-.016	-.015	-.010	-.019	-.010	-.017	.000	-.003
9	.163	.113	.087	.071	.041	.038	.029	.029	.006	.023	.008	.017	-.003	.005
10	-.112	-.044	-.070	-.028	-.043	-.022	-.032	-.023	-.020	-.019	-.012	-.012	-.001	-.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.969	1.433	2.272	.719	1.458	.167
2	-.325	-.062	-.074	.012	-.010	.040
3	.013	.035	.003	-.018	.011	-.019
4	.007	-.023	.022	.042	-.002	-.019
5	.040	-.014	.026	-.020	.023	-.005
6	.016	-.024	.004	-.017	.008	-.012
7	-.039	.000	-.002	.003	.010	.009
8	.001	-.017	.030	-.004	-.003	.001
9	.002	.016	.003	.013	.000	.005
10	.001	-.013	.001	-.013	.009	-.004

N	CNREAL	CNIMAG
1	6.258	-.442
2	-.098	.042
3	.062	-.056
4	-.030	-.060
5	.008	-.006
6	.008	-.046
7	-.006	.026
8	-.014	-.016
9	.021	.024
10	-.020	-.016

N	CMREAL	CMIMAG
1	1.361	-.569
2	-.048	.008
3	.013	-.022
4	-.017	-.008
5	-.001	.002
6	-.005	-.012
7	.001	.008
8	-.004	-.003
9	.007	.005
10	-.007	-.002

*** STABILITY PARAMETER

```
*                *
* XI =     .5689 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
CAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.327	-.670	2.300	-.716	-7.760	2.327	-2.542	.529	7.106	4.401
2	-.247	.197	-.117	.277	-.441	-.307	-.231	.024	-.001	-.014
3	.238	.334	.222	.352	.183	.342	.098	.281	.120	.253
4	-.171	-.256	-.118	-.215	-.004	-.217	-.066	-.234	-.059	-.226
5	.073	.061	.097	.093	.018	.085	.005	.071	.158	.130
6	-.143	.359	-.174	.040	-.145	.145	-.143	.096	-.232	.082
7	.069	.057	.065	.074	.069	-.002	.062	.044	.049	.037
8	.066	-.059	.062	-.077	.047	-.045	.046	-.046	.040	-.092
9	.027	-.024	.015	-.047	-.008	-.044	.008	-.038	.010	-.022
10	-.015	.002	-.017	-.069	.022	.020	-.000	.008	.014	.024

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 75 ALPHA-MCL = 2.0 PDP RUN.PT 15.09
RUN 15 ALPHA-BAR = .5 Q-COMP = .32027
POINT 6 SIGMA =-135. V-REF = 198.48
COMPUTED FRECUENCY = 19.25, K = .1523

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	34.905	341.52	18.891	337.18	9.993	347.86	6.607	354.84	4.431	9.82	4.999	13.24	3.926	28.44
2	.257	201.06	1.178	157.47	.080	162.88	.318	204.72	.113	150.19	.208	32.32	.444	7.49
3	.602	307.10	.176	259.48	.192	326.65	.262	296.41	.129	52.05	.061	317.01	.031	17.88
4	.487	202.14	.249	202.65	.125	232.21	.129	306.29	.087	162.66	.078	275.62	.137	291.11
5	.009	83.56	.054	54.95	.009	141.05	.026	11.05	.052	248.81	.012	287.61	.020	167.87
6	.272	243.13	.132	243.51	.088	264.26	.067	271.35	.065	315.57	.040	324.87	.029	4.10
7	.170	67.59	.094	74.38	.056	98.26	.052	16.84	.020	151.20	.020	166.62	.018	178.53
8	.086	204.35	.068	222.04	.041	223.85	.022	224.26	.021	241.90	.019	239.91	.003	271.13
9	.198	34.83	.113	39.36	.055	42.86	.041	45.27	.024	75.48	.019	64.92	.003	178.16
10	.120	201.38	.075	201.47	.048	207.59	.039	215.27	.028	223.59	.017	225.38	.009	260.78

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.297	25.76	2.383	17.55	1.468	6.52
2	.331	190.76	.074	170.96	.042	103.53
3	.037	69.08	.019	280.46	.022	299.32
4	.024	287.12	.047	61.95	.019	264.83
5	.043	341.06	.033	323.13	.023	347.64
6	.028	303.34	.017	284.47	.014	303.59
7	.009	179.52	.004	126.43	.013	43.82
8	.017	272.39	.004	274.42	.003	164.22
9	.016	84.15	.013	76.82	.005	86.02
10	.013	273.67	.014	274.51	.010	336.92

N	CN-MAG	PHIN
1	6.273	355.96
2	.107	156.90
3	.064	317.75
4	.067	243.21
5	.010	321.56
6	.047	280.29
7	.027	103.82
8	.021	229.38
9	.032	49.48
10	.026	218.47

N	CM-MAG	PHIM
1	1.475	337.31
2	.049	170.35
3	.025	301.17
4	.019	206.25
5	.002	115.27
6	.012	247.70
7	.008	82.46
8	.005	215.66
9	.009	36.59
10	.007	198.26

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.484	339.50	2.408	342.71	8.101	163.31	2.597	168.26	8.359	31.77
2	.316	141.53	.301	112.81	.537	214.87	.232	173.97	.014	266.83
3	.410	54.56	.416	57.74	.388	61.90	.297	70.77	.280	64.70
4	.308	236.16	.245	241.32	.217	268.96	.243	254.32	.234	255.42
5	.099	37.90	.134	43.85	.087	77.86	.072	86.16	.205	39.56
6	.155	157.50	.179	167.16	.205	134.84	.172	146.15	.246	160.49
7	.089	39.65	.098	48.44	.069	357.98	.076	35.35	.061	37.40
8	.088	318.53	.099	308.47	.065	316.11	.065	315.35	.100	293.60
9	.036	318.05	.049	288.07	.045	259.80	.039	281.44	.024	293.92
10	.015	171.06	.020	208.39	.030	43.34	.008	90.55	.028	58.56

*** STABILITY PARAMETER

XI = .5689

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 64 ALPHA-MCL = 2.0 PDP RUN.PT 14.01
RUN 14 ALPHA-PAR = .5 Q-COMP = .32580
POINT 1 SIGMA = -90. V-REF = 200.18
COMPUTED FREQUENCY = 9.16, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-14.385	7.365	-5.892	2.913	-3.007	1.401	-1.628	.511	-.502	-.552	-.849	-.971	-.713	-1.233
2	1.775	.465	2.003	.354	2.023	.356	2.183	.441	2.444	.441	2.133	.320	2.284	.393
3	-.364	-.165	-.446	-.057	-.455	-.025	-.473	.089	-.529	-.117	-.553	-.017	-.555	.018
4	.335	.097	.381	.124	.412	.122	.348	.189	.480	.100	.455	.149	.444	.180
5	.103	.105	.084	.067	.075	.058	.038	.048	.106	.089	.083	.062	.083	.084
6	.290	-.294	.256	-.338	.251	-.327	.256	-.362	.309	-.360	.296	-.385	.292	-.386
7	-.014	.060	.018	.029	.026	.018	.037	-.010	.057	.002	.102	-.009	.101	.006
8	.082	.010	.093	-.066	.103	-.086	.120	-.103	.136	-.109	.138	-.074	.151	-.088
9	-.040	.135	.030	.084	.040	.076	.051	.079	.059	.094	.057	.087	.055	.103
10	.065	.121	.044	.077	.033	.052	.030	.046	.012	.043	.020	.041	.027	.033

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.259	-1.088	.206	-.621	.604	-.509	14.363	-6.388	9.589	-4.761	5.438	-1.790	4.229	-.999
2	2.253	.412	2.295	.448	2.260	.361	1.787	-.090	.359	.349	2.123	.245	2.170	.299
3	-.545	.017	-.562	.007	-.574	.002	-.474	.138	-.644	-.051	-.508	.016	-.506	-.009
4	.423	.173	.430	.185	.424	.158	.532	.124	.511	.151	.460	.129	.440	.139
5	.082	.058	.092	.050	.088	.047	.058	.010	.063	.111	.090	.042	.088	.041
6	.257	-.365	.295	-.384	.267	-.377	.278	-.438	.265	-.425	.272	-.401	.294	-.369
7	.114	.014	.111	.011	.095	.012	.020	-.062	.075	-.018	.047	-.004	.056	.005
8	.158	-.082	.167	-.073	.160	-.065	.078	-.169	.119	-.150	.130	-.126	.153	-.093
9	.050	.105	.056	.129	.059	.110	.144	.002	.092	.048	.098	.065	.073	.091
10	.033	.031	.037	.031	.043	.024	-.017	-.055	.020	-.007	.037	-.011	.038	-.000

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.890	-.385	2.897	-.029	1.693	.528	1.764	.496	2.574	.523	1.594	-.028
2	1.996	.322	2.459	.437	2.587	.493	2.018	.378	2.181	.506	2.062	.542
3	-.470	-.044	-.594	-.094	-.537	-.184	-.558	.033	-.584	.008	-.493	-.025
4	.387	.138	.450	.192	.366	.157	.427	.161	.454	.128	.399	.140
5	.095	.033	.117	.043	.074	.027	.076	.054	.105	.034	.075	.041
6	.257	-.367	.318	-.434	.269	-.362	.260	-.419	.274	-.392	.265	-.372
7	.064	.011	.085	.015	.099	.001	.112	.036	.104	.037	.089	.034
8	.141	-.091	.179	-.099	.152	-.061	.194	-.054	.174	-.059	.160	-.022
9	.075	.069	.092	.143	.084	.120	.089	.148	.076	.122	.051	.132
10	.039	.062	.066	.007	.066	.018	.058	.004	.066	.011	.044	.011

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 64 ALPHA-MCL = 2.0 PDP RUN.PT 14.01
RUN 14 ALPHA-BAR = .5 Q-COMP = .32580
POINT 1 SIGMA = -90. V-REF = 200.18
COMPUTED FREQUENCY = 9.16, K = .0719

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	16.169	152.82	6.573	153.69	3.318	155.02	1.707	162.57	.746	227.74	1.290	228.31	1.424	239.96
2	1.821	12.87	2.034	10.03	2.054	9.98	2.227	11.42	2.483	10.23	2.157	8.53	2.318	9.77
3	.400	204.40	.449	187.28	.455	183.11	.482	169.35	.541	192.45	.553	181.72	.555	178.11
4	.348	16.10	.401	18.07	.430	16.54	.396	28.58	.490	11.81	.479	18.09	.480	22.11
5	.147	45.54	.107	38.78	.095	37.78	.062	51.73	.139	40.07	.104	36.60	.118	45.57
6	.413	314.67	.424	307.19	.412	307.52	.444	305.21	.474	310.63	.486	307.57	.484	307.09
7	.061	103.16	.034	58.03	.032	35.56	.039	344.96	.057	2.49	.102	354.74	.101	3.26
8	.083	7.01	.114	324.76	.134	320.05	.159	319.41	.175	321.22	.157	332.00	.174	329.72
9	.141	106.58	.089	70.37	.086	62.30	.094	56.85	.111	57.86	.104	56.85	.117	62.01
10	.137	61.83	.089	60.34	.062	57.94	.055	56.75	.045	74.97	.045	64.16	.043	51.14

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.119	256.63	.846	284.12	.789	319.88	15.719	336.02	10.706	333.60	5.725	341.78	4.345	346.71
2	2.291	10.36	2.339	11.05	2.292	9.57	1.789	357.12	.500	44.22	2.137	6.59	2.191	7.86
3	.545	178.20	.560	179.30	.574	179.83	.494	163.78	.845	183.47	.508	178.15	.506	180.98
4	.457	22.26	.468	23.24	.452	20.38	.546	13.11	.533	16.49	.477	15.63	.461	17.51
5	.100	35.55	.104	28.64	.100	28.23	.058	9.49	.127	60.39	.100	24.76	.097	24.69
6	.464	308.23	.485	307.51	.461	305.30	.519	302.33	.500	301.95	.464	304.15	.472	308.57
7	.118	6.90	.112	5.74	.096	7.15	.065	287.59	.077	346.42	.047	355.36	.056	5.08
8	.178	332.66	.162	336.47	.173	338.04	.187	294.84	.191	308.63	.181	315.88	.179	328.90
9	.116	64.48	.140	66.55	.124	61.80	.144	.88	.104	27.71	.117	33.44	.117	51.07
10	.045	43.99	.048	40.62	.050	29.37	.058	252.72	.021	342.04	.039	343.94	.038	359.90

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.916	352.41	2.897	359.43	1.773	17.31	1.832	15.72	2.026	11.49	1.594	358.99
2	2.021	9.17	2.498	10.07	2.633	10.79	2.053	10.62	2.239	13.06	2.132	14.71
3	.473	185.37	.601	189.02	.567	198.89	.559	176.59	.584	179.26	.494	182.87
4	.411	19.63	.490	23.10	.400	23.06	.457	20.62	.472	15.74	.423	19.33
5	.100	19.28	.119	20.93	.079	20.05	.093	35.38	.110	17.68	.085	28.79
6	.448	305.01	.538	306.20	.451	306.63	.493	301.84	.478	305.01	.457	305.42
7	.065	10.11	.086	10.21	.099	.56	.118	17.96	.111	19.75	.095	20.39
8	.168	327.21	.200	333.58	.164	338.24	.204	341.83	.183	341.39	.162	352.03
9	.130	43.28	.170	57.20	.146	55.00	.173	58.92	.144	57.91	.145	64.98
10	.039	2.55	.067	6.26	.070	14.56	.059	4.39	.067	9.24	.046	14.50

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 64 ALPHA-MCL = 2.0 PDP RUN.PT 14.01
RUN 14 ALPHA-BAR = .5 Q-COMP = .32580
POINT 1 SIGMA = -90. V-REF = 200.18
COMPUTED FREQUENCY = 9.16, K = .0719

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	28.747	-13.773	15.481	-7.674	6.445	-3.191	5.857	-1.510	3.392	.167	3.746	.942	2.406	1.760
2	.011	-.495	-1.644	-.005	.101	-.110	-.013	-.141	-.448	-.119	.326	.117	.302	.100
3	-.110	.303	-.398	.006	-.053	.041	-.032	-.098	.058	.072	-.041	-.078	.018	-.202
4	.197	.027	.129	.027	.048	.006	.092	-.051	-.093	.038	-.005	.043	-.076	-.024
5	-.046	-.096	-.021	.043	.016	-.016	.050	-.008	-.011	-.056	.028	-.019	-.008	-.057
6	-.013	-.145	.008	-.087	.021	-.074	.038	-.006	-.052	-.007	.021	-.049	-.023	.024
7	.034	-.122	.057	-.047	.021	-.022	.018	.015	.007	.009	-.017	.025	-.002	-.005
8	-.004	-.179	.026	-.084	.027	-.040	.033	.011	.005	.019	.041	-.016	.001	.027
9	.184	-.133	.062	-.036	.056	-.011	.022	.012	.035	-.005	.035	.056	.029	.017
10	-.082	-.176	-.024	-.084	.004	-.063	.007	-.046	.027	-.042	.047	-.033	.041	-.016

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.022	1.585	2.367	1.344	.990	.480
2	-.235	-.033	-.115	.058	-.198	.160
3	-.013	.016	-.024	.001	.081	-.026
4	.004	-.012	.024	-.057	-.025	-.018
5	-.006	-.004	.014	-.016	-.013	-.006
6	-.027	-.055	-.021	-.008	-.002	.004
7	-.001	.023	-.007	.026	-.006	.022
8	.036	.018	.007	.014	-.000	.042
9	.039	.043	.021	-.007	.003	.022
10	.026	-.027	.029	-.021	.001	-.013

N	CNREAL	CNIMAG
1	5.219	-.818
2	-.131	-.018
3	-.031	-.025
4	.008	-.001
5	.005	-.022
6	-.004	-.029
7	.007	.002
8	.019	-.004
9	.037	.009
10	.017	-.040

N	CMREAL	CMIMAG
1	1.223	-.719
2	-.044	-.026
3	-.018	.009
4	.012	.003
5	.001	.000
6	.003	-.006
7	.004	-.005
8	.001	-.009
9	.006	-.006
10	-.003	-.007

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.932	-1.006	2.913	-.983	-5.785	2.918	-.984	.693	3.681	7.240
2	2.890	.474	3.033	.659	2.582	.221	2.666	.484	2.696	.968
3	-.646	-.014	-.664	.041	-.568	-.157	-.606	-.047	-.475	-.341
4	.667	.191	.763	.314	.490	.089	.520	.168	.335	.082
5	.117	.071	.113	.103	.157	.211	.065	-.013	-.020	-.050
6	.341	-.502	.415	-.321	.352	-.473	.398	-.411	.194	-.285
7	.045	-.010	-.072	.002	-.024	.075	.019	.046	-.036	.069
8	.144	-.195	.081	-.142	.138	-.083	.148	-.109	.166	-.070
9	.112	.066	.039	-.012	.046	.144	.057	.060	.006	.060
10	.021	.040	.021	.094	.063	.040	.029	.045	.044	.016

*** STABILITY PARAMETER

XI = .7189

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 64   ALPHA-MCL = 2.0   PDP RUN.PT 14.01
RUN 14   ALPHA-PAR = .5   Q-COMP = .32580
POINT 1   SIGMA = -90.   V-REF = 200.18
COMPUTED FREQUENCY = 9.16, K = .0719

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	31.876	334.40	17.279	333.63	9.026	339.30	6.049	345.54	3.396	2.82	3.862	14.11	2.981	36.19
2	.495	271.32	1.644	160.18	.149	312.35	.142	264.62	.464	194.89	.346	19.67	.318	16.25
3	.322	109.97	.398	179.18	.067	142.36	.103	251.71	.093	51.26	.048	242.26	.203	275.05
4	.199	7.86	.132	11.68	.048	7.42	.105	331.22	.101	158.07	.044	96.21	.080	197.31
5	.106	244.45	.048	115.76	.023	313.91	.051	351.21	.057	258.58	.034	325.86	.058	261.72
6	.145	264.90	.087	275.52	.076	285.71	.039	350.47	.053	187.25	.053	293.62	.033	133.23
7	.126	285.44	.074	320.27	.030	313.14	.024	39.28	.011	52.66	.030	124.31	.005	245.63
8	.179	268.79	.088	267.36	.048	304.26	.035	17.99	.019	75.57	.044	339.26	.027	87.29
9	.227	324.12	.072	330.21	.059	348.97	.025	28.76	.036	351.82	.066	57.74	.033	29.73
10	.194	245.05	.087	254.15	.063	274.00	.047	278.97	.050	303.24	.057	324.52	.044	339.05

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.569	38.08	2.722	29.58	1.101	25.88
2	.238	188.08	.128	153.28	.255	141.03
3	.021	129.68	.024	178.17	.085	341.86
4	.013	288.82	.062	292.53	.031	214.89
5	.007	217.65	.021	309.75	.014	204.93
6	.061	243.69	.022	200.07	.004	112.89
7	.023	93.71	.027	104.73	.023	105.68
8	.040	26.68	.016	63.08	.042	90.03
9	.058	47.82	.022	341.16	.022	82.98
10	.037	313.92	.036	324.69	.013	275.20

N	CN-MAG	PHIN
1	5.263	351.09
2	.132	187.88
3	.040	218.66
4	.008	354.72
5	.022	283.41
6	.029	262.21
7	.007	18.72
8	.019	348.61
9	.038	13.33
10	.044	292.38

N	CM-MAG	PHIM
1	1.418	329.55
2	.051	210.97
3	.020	153.05
4	.012	13.25
5	.001	5.80
6	.007	292.62
7	.007	307.20
8	.009	279.14
9	.008	314.51
10	.008	244.78

*** STABILITY PARAMETER

****
* XI = .7189 *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.098	341.17	3.074	341.34	6.479	153.23	1.203	144.84	8.122	63.05
2	2.929	9.32	3.103	12.27	2.591	4.90	2.710	10.30	2.864	19.75
3	.646	181.27	.665	176.45	.589	195.42	.608	184.47	.585	215.65
4	.694	15.96	.825	22.39	.498	10.11	.553	19.89	.345	13.77
5	.137	31.13	.152	42.24	.263	53.42	.067	348.88	.054	248.36
6	.606	304.19	.524	322.26	.589	306.68	.572	314.10	.345	304.17
7	.049	348.06	.072	178.80	.079	107.57	.050	67.91	.078	117.34
8	.243	306.36	.164	299.60	.161	328.99	.184	323.55	.180	337.07
9	.130	30.36	.041	343.70	.151	72.49	.083	46.37	.060	84.70
10	.045	62.42	.096	77.33	.074	32.52	.054	57.25	.047	20.09

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 66 ALPHA-MCL = 2.0 PDP RUN.PT 14.03
RUN 14 ALPHA-BAR = .5 Q-COMP = .32280
POINT 3 SIGMA = -90. V-REF = 199.24
COMPUTED FREQUENCY = 15.54, K = .1225

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-15.696	7.329	-7.914	2.568	-5.277	.866	-4.056	-.103	-3.244	-1.379	-3.760	-1.812	-3.644	-2.015
2	.171	-.679	.092	-.490	.067	-.422	.131	-.359	.268	-.387	-.173	-.457	-.046	-.386
3	-.367	-.191	-.252	-.175	-.230	-.100	-.178	-.056	-.291	-.204	-.241	-.155	-.230	-.127
4	-.072	-.080	-.111	-.033	-.092	-.018	-.159	.007	-.126	-.101	-.138	-.027	-.144	-.022
5	.313	-.143	.309	-.214	.325	-.195	.344	-.185	.457	-.135	.423	-.120	.421	-.095
6	-.016	.019	.030	.022	-.005	.014	-.003	.022	.007	.043	-.021	.019	-.023	.025
7	-.134	.079	-.097	.057	-.087	.034	-.089	.023	-.196	.009	-.098	.012	-.072	.006
8	-.097	.071	-.057	.043	-.060	.035	-.059	.033	-.061	.015	-.054	.020	-.076	.018
9	.041	.030	.031	.051	.027	.033	.036	.031	.052	.047	.047	.057	.044	.045
10	-.076	.026	-.037	.035	-.032	.039	-.027	.042	-.023	.050	-.032	.041	-.033	.048

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.110	-1.893	-2.644	-1.691	-2.251	-1.322	11.057	-7.544	5.922	-5.822	2.616	-2.438	1.354	-1.623
2	-.027	-.370	-.029	-.396	-.072	-.389	-.744	-.317	-1.374	.526	-.182	-.333	-.131	-.346
3	-.222	-.114	-.232	-.123	-.215	-.083	-.354	-.082	-.302	-.086	-.138	-.102	-.143	-.109
4	-.143	-.045	-.145	-.050	-.136	-.039	-.259	-.015	-.155	-.008	-.171	-.041	-.142	-.070
5	.424	-.056	.441	-.044	.406	-.056	.383	-.197	.419	-.195	.404	-.162	.419	-.065
6	-.026	.027	-.022	.014	-.031	.006	-.077	.000	-.049	.007	-.033	.008	-.034	.003
7	-.074	.036	-.068	.011	-.072	.013	-.055	-.086	-.074	-.048	-.071	-.022	-.074	-.040
8	-.065	.018	-.060	.017	-.052	.020	-.025	-.013	-.035	-.000	-.050	-.001	-.054	-.017
9	.044	.041	.056	.040	.054	.045	.059	.001	.066	.008	.064	.010	.069	.029
10	-.036	.045	-.034	.050	-.036	.048	.049	.060	.005	.052	-.018	.051	-.045	.041

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.330	-.928	-.214	-.726	-.913	-.066	-1.097	-.252	-.610	-.779	-1.331	-.969
2	-.082	-.326	-.067	-.398	.287	-.449	-.321	-.358	-.145	-.359	-.031	-.294
3	-.151	-.116	-.220	-.167	-.279	-.124	-.151	-.091	-.154	-.100	-.176	-.103
4	-.123	-.055	-.135	-.052	-.102	-.087	-.123	-.067	-.114	-.057	-.089	-.084
5	.391	-.110	.480	-.087	.402	-.042	.438	-.033	.395	-.038	.406	-.017
6	-.021	.005	-.021	.017	-.022	-.006	-.048	.017	-.032	.017	-.026	.006
7	-.071	-.009	-.097	-.024	-.088	.010	-.080	-.012	-.073	-.009	-.084	.008
8	-.040	.007	-.046	.003	-.041	-.001	-.047	.005	-.037	.000	-.032	.008
9	.057	.025	.066	.024	.058	.039	.055	.045	.054	.042	.051	.042
10	-.030	.038	-.038	.044	-.031	.031	-.040	.032	-.036	.023	-.034	.026

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 66 ALPHA-MCL = 2.0 PDP RUN.PT 14.03
RUN 14 ALPHA-BAR = .5 Q-COMP = .32280
POINT 3 SIGMA = -90. V-REF = 199.24
COMPUTED FREQUENCY = 15.54, K = .1225

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	17.314	154.96	8.320	162.02	5.347	170.68	4.057	181.46	3.525	203.03	4.173	205.73	4.164	208.94
2	.701	284.11	.498	280.59	.428	278.97	.382	290.01	.471	304.67	.489	249.26	.389	263.17
3	.414	207.43	.306	214.75	.251	203.44	.187	197.44	.356	215.04	.286	212.77	.263	208.96
4	.108	228.22	.115	196.38	.094	191.00	.159	177.41	.161	218.85	.140	190.89	.145	188.82
5	.344	335.36	.376	325.25	.379	329.07	.390	331.75	.477	343.49	.439	344.20	.431	347.35
6	.025	130.49	.038	36.00	.015	110.10	.023	98.15	.043	80.76	.029	137.49	.034	131.93
7	.155	149.41	.113	149.52	.094	158.92	.092	165.68	.106	175.10	.098	173.11	.072	175.00
8	.121	143.88	.071	142.96	.069	149.88	.068	150.71	.063	166.63	.057	159.32	.078	166.36
9	.050	36.65	.060	59.15	.042	51.12	.048	41.40	.070	41.89	.074	50.77	.063	45.47
10	.081	160.49	.051	136.29	.050	130.14	.051	122.61	.055	114.64	.052	128.03	.059	124.66

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.680	211.33	3.139	212.59	2.610	210.42	13.385	325.69	6.305	315.49	3.577	317.02	2.114	309.84
2	.371	265.86	.397	265.84	.395	259.57	.809	203.05	1.471	159.05	.360	241.38	.370	249.23
3	.249	207.07	.263	207.85	.231	201.08	.098	236.44	.314	195.86	.171	216.50	.180	217.19
4	.150	197.33	.154	198.96	.142	195.90	.260	183.25	.156	183.10	.175	193.54	.159	206.14
5	.428	352.42	.443	354.33	.410	352.18	.430	332.83	.462	334.97	.435	338.19	.424	351.17
6	.038	134.22	.026	148.02	.031	168.15	.077	170.96	.050	172.39	.034	165.92	.034	174.90
7	.074	175.38	.069	170.53	.073	170.05	.102	237.62	.088	213.02	.074	197.52	.084	208.12
8	.068	164.76	.062	164.38	.056	156.65	.028	207.23	.035	180.72	.050	181.28	.057	197.20
9	.060	42.61	.069	35.33	.070	39.67	.059	1.23	.067	7.04	.065	8.60	.074	22.67
10	.058	128.65	.060	124.05	.061	128.66	.077	50.80	.052	84.99	.054	109.07	.062	137.67

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.985	289.56	.757	253.58	.915	184.15	1.125	192.95	.989	231.92	1.646	216.04
2	.337	255.87	.404	260.45	.533	302.63	.481	228.09	.387	248.07	.295	264.01
3	.191	217.55	.277	217.21	.305	203.98	.177	211.10	.183	213.04	.204	210.35
4	.135	204.19	.145	200.96	.134	220.46	.140	208.71	.127	206.39	.122	223.52
5	.406	344.29	.488	349.76	.404	354.00	.439	356.68	.397	354.45	.407	357.65
6	.022	166.41	.028	140.87	.023	194.92	.051	160.28	.036	152.39	.026	167.08
7	.071	187.58	.100	194.10	.088	173.36	.081	188.84	.073	187.02	.085	174.89
8	.040	169.36	.046	175.67	.041	181.68	.047	174.15	.037	179.52	.033	165.05
9	.062	23.47	.070	19.79	.070	33.76	.071	39.64	.069	37.94	.066	39.21
10	.048	128.11	.058	130.79	.044	134.92	.051	141.32	.043	147.37	.043	143.42

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 66 ALPHA-MCL = 2.0 PDP RUN.PT 14.03
RUN 14 ALPHA-BAR = .5 Q-COMP = .32280
POINT 3 SIGMA = -90. V-REF = 199.24
COMPUTED FREQUENCY = 15.54, K = .1225

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	25.743	-14.873	13.836	-8.390	7.893	-3.304	5.410	-1.520	3.574	.451	3.546	1.085	2.731	1.948
2	-.915	.363	-1.466	1.016	-.249	.089	-.262	.012	-.350	.061	.106	.059	.334	-.063
3	.313	.109	-.050	.089	.093	-.002	.035	-.053	.140	.088	.020	-.012	-.049	.003
4	-.188	.065	-.045	.024	-.079	-.023	.016	-.077	.003	.046	.003	-.025	.042	-.064
5	.070	-.053	.115	.019	.079	.033	.076	.120	-.066	.025	.058	.033	-.019	.052
6	-.061	-.019	-.080	-.016	-.028	-.006	-.031	-.019	-.028	-.038	-.030	-.002	.001	-.031
7	.079	-.165	.024	-.105	.017	-.056	.015	-.062	.035	-.018	.001	-.036	-.016	.004
8	.073	-.064	.021	-.043	.009	-.036	.005	-.050	.021	-.007	.008	-.017	.035	-.020
9	.018	-.029	.035	-.043	.038	-.023	.033	-.003	.004	-.022	.019	-.034	.015	-.006
10	.125	.033	.042	.017	.015	.013	-.018	-.001	-.006	-.013	-.006	.003	.002	-.017

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.013	1.640	2.034	.912	.920	.353
2	-.295	.012	-.116	.037	.041	.095
3	.071	.022	.079	.023	.039	-.020
4	.020	-.023	.031	-.007	.048	-.045
5	.013	.023	-.046	.005	.000	.039
6	-.021	-.010	-.017	.003	.005	-.001
7	-.006	-.018	-.005	-.020	-.012	-.005
8	.019	-.013	.023	-.017	.020	-.012
9	.010	.005	-.002	.002	-.003	-.003
10	-.004	-.013	-.007	-.027	.004	-.022

N	CNREAL	CNIMAG
1	4.946	-.861
2	-.211	.112
3	.050	.015
4	-.001	-.020
5	.023	.038
6	-.020	-.015
7	.009	-.036
8	.018	-.024
9	.017	-.015
10	.004	-.005

N	CMREAL	CMIMAG
1	1.116	-.751
2	-.078	.037
3	.006	.004
4	-.010	.003
5	.009	.001
6	-.005	-.001
7	.004	-.009
8	.000	-.004
9	.003	-.003
10	.003	.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.527	-1.997	-.344	-2.025	-5.629	2.211	-3.852	-.160	1.047	6.040
2	-.063	-.502	.011	-.297	-.103	-.811	-.001	-.508	.197	.054
3	-.224	-.158	-.153	-.304	-.099	.038	-.436	-.030	.068	-.410
4	-.199	-.023	-.262	.016	-.058	-.072	-.136	-.023	-.184	-.121
5	.430	-.306	.475	-.287	.497	-.237	.451	-.184	.416	-.116
6	-.024	.019	.393	.054	-.056	.108	-.195	-.041	-.063	-.053
7	-.105	.017	-.079	.049	-.154	.023	-.118	.024	-.201	-.057
8	-.053	.012	-.063	.024	-.097	.082	-.054	.017	-.072	-.001
9	.057	.043	.071	.059	.069	-.059	.210	-.028	.070	.068
10	-.066	.066	-.013	.021	-.058	.072	-.056	.065	-.003	.054

*** STABILITY PARAMETER

XI =	.7506

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 66	ALPHA-MCL = 2.0	PDP RUN.PT 14.03	
RUN 14	ALPHA-BAR = .5	Q-COMP = .32280	
POINT 3	SIGMA = -90.	V-REF = 199.24	
COMPUTED FREQUENCY = 15.54,	K = .1225		

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	30.600	330.92	16.181	328.77	8.557	337.29	5.620	344.31	3.602	7.19	3.7J8	17.02	3.355	35.50
2	.984	158.37	1.784	145.27	.264	160.34	.262	177.34	.355	170.16	.122	29.20	.340	349.32
3	.331	19.15	.102	119.58	.093	358.81	.063	303.86	.165	32.14	.024	328.48	.049	176.10
4	.199	160.77	.051	151.60	.082	196.44	.079	282.00	.046	86.84	.025	276.34	.077	303.05
5	.088	322.87	.112	9.58	.086	22.74	.141	57.73	.071	158.92	.066	29.57	.056	110.24
6	.064	197.01	.081	191.03	.028	191.70	.037	211.92	.047	233.41	.002	261.53	.031	271.64
7	.183	295.46	.108	282.66	.058	285.45	.064	283.52	.040	332.36	.036	271.12	.016	166.02
8	.111	310.85	.048	296.27	.037	284.66	.050	275.23	.022	341.71	.019	294.98	.040	330.47
9	.034	302.24	.056	309.50	.044	326.24	.033	355.09	.023	281.29	.039	299.96	.016	339.18
10	.129	14.98	.045	22.14	.020	41.28	.018	183.27	.014	242.77	.007	153.15	.017	277.74

X =	.774		.860		.910							
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	N	CN-MAG	PHIN	N	CM-MAG	PHIM
1	2.597	39.18	2.229	24.15	.985	20.99	1	5.020	350.12	1	1.345	326.08
2	.295	177.76	.121	162.50	.104	66.82	2	.239	152.04	2	.086	154.79
3	.074	17.47	.062	16.19	.044	332.71	3	.053	16.63	3	.007	33.74
4	.030	311.94	.032	347.83	.066	316.46	4	.020	267.58	4	.011	162.76
5	.027	60.68	.046	173.30	.039	89.45	5	.045	59.57	5	.009	8.84
6	.024	205.29	.011	162.75	.005	353.94	6	.025	216.43	6	.005	193.41
7	.019	252.63	.021	255.80	.013	203.48	7	.037	283.43	7	.010	297.38
8	.023	325.09	.028	324.16	.024	329.78	8	.030	307.15	8	.004	271.12
9	.011	23.92	.003	133.62	.004	227.35	9	.022	318.85	9	.004	319.10
10	.014	254.06	.027	265.07	.022	279.58	10	.007	312.35	10	.004	47.68

*** WALL PRESSURES, PER RADIAN ***

*** STABILITY PARAMETER
XI = -.7506

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.065	255.23	2.054	260.37	8.907	165.63	3.655	182.38	6.130	40.16
2	.506	262.82	.297	272.12	.818	262.77	.508	269.83	.204	15.21
3	.274	215.28	.340	243.32	.106	159.17	.437	183.98	.415	279.46
4	.201	186.54	.262	176.60	.092	231.01	.138	189.51	.220	213.25
5	.529	324.35	.555	328.88	.551	334.51	.447	337.85	.432	344.46
6	.031	141.25	.107	30.31	.122	117.51	.199	191.79	.082	220.40
7	.106	170.68	.093	146.29	.156	171.37	.121	168.48	.209	195.83
8	.054	167.33	.068	159.09	.127	140.06	.056	162.75	.072	120.49
9	.071	36.94	.092	39.78	.091	319.30	.212	352.38	.098	48.42
10	.066	95.24	.025	123.06	.093	128.63	.086	131.03	.054	93.30

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 68 ALPHA-MCL = 2.0 PDP RUN.PT 14.05
RUN 14 ALPHA-PAR = .5 Q-COMP = .32162
POINT 5 SIGMA = -90. V-REF = 198.87
COMPUTED FREQUENCY = 19.25, K = .1520

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-14.554	7.511	-6.579	2.214	-3.853	.308	-2.588	-.759	-1.709	-2.194	-2.108	-2.645	-1.913	-2.830
2	.438	-.488	.321	-.268	.256	-.168	.351	-.095	.499	-.181	.023	-.051	.170	-.096
3	.120	-.136	.187	-.030	.205	-.008	.248	.093	.156	-.032	.233	-.015	.204	.028
4	.546	-.089	.376	-.271	.352	-.306	.355	-.270	.426	-.392	.485	-.331	.477	-.367
5	-.102	-.000	-.036	-.024	-.016	-.025	-.019	-.020	.047	-.020	.009	-.014	.014	.006
6	-.061	.002	-.071	.006	-.076	-.005	-.093	-.014	-.100	-.016	-.093	-.010	-.080	-.031
7	.047	.047	.050	-.013	.053	-.012	.059	-.010	.047	.029	.067	.003	.063	-.005
8	-.016	-.038	.023	-.017	.027	.003	.032	.008	.023	.005	.014	.007	.010	.024
9	.000	.020	-.015	.009	-.025	.000	-.026	.000	-.023	.005	-.025	.001	-.013	-.018
10	-.014	-.004	-.036	-.010	-.042	-.018	-.045	-.023	-.054	-.031	-.060	-.032	-.033	-.020

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.413	-2.690	-.908	-2.467	-.585	-2.079	12.524	-8.830	1.195	-7.083	4.159	-3.274	2.923	-2.360
2	.176	-.091	.189	-.111	.157	-.114	-.697	-.038	-1.004	.973	-.063	-.084	.010	-.089
3	.222	.001	.235	.000	.225	-.002	.484	.222	.339	.154	.334	.090	.293	.082
4	.511	-.315	.560	-.327	.531	-.334	.127	-.654	.231	-.550	.348	-.498	.477	-.383
5	.010	-.003	.010	.010	.008	.002	.108	.064	.115	.032	.033	.055	.013	.052
6	-.079	-.027	-.071	-.032	-.065	-.008	-.097	-.046	-.111	-.026	-.085	-.033	-.078	-.061
7	.052	.008	.059	.005	.051	-.001	.067	-.012	.088	-.006	.073	.016	.067	.045
8	.007	.024	-.001	.034	-.000	.022	.003	.078	-.010	.044	-.018	.046	-.027	.040
9	-.005	-.015	-.017	-.020	-.011	-.014	-.010	-.045	-.001	-.026	.007	-.033	.019	-.022
10	-.041	-.020	-.034	-.029	-.032	-.018	-.055	-.048	-.054	-.036	-.036	-.026	-.037	-.031

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.765	-1.570	1.526	-1.449	.672	-.650	.531	-.920	.807	-1.538	.194	-1.571
2	.072	-.090	.144	-.198	.496	-.293	-.135	-.026	.028	-.106	.190	-.053
3	.241	.036	.256	.011	.115	.004	.343	.018	.259	-.004	.224	-.019
4	.445	-.391	.638	-.407	.582	-.339	.632	-.376	.574	-.307	.560	-.276
5	.010	.017	.005	.026	-.006	.021	.004	.022	.000	.009	-.003	-.007
6	-.056	-.019	-.082	-.030	-.050	-.036	-.072	-.012	-.062	-.009	-.062	-.017
7	.054	.014	.058	.042	.040	.024	.060	.034	.051	.017	.038	.021
8	-.015	.028	-.019	.032	.005	.026	-.017	.016	-.007	.012	.005	.007
9	-.004	-.012	.002	-.016	-.005	-.014	-.009	.005	-.017	.001	-.015	.001
10	-.037	-.019	-.045	-.025	-.033	-.023	-.042	-.019	-.045	-.024	-.042	-.022

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 68 ALPHA-MCL = 2.0 POP RUN.PT 14.05
RUN 14 ALPHA-BAR = .5 Q-COMP = .32162
POINT 5 SIGMA = -90. V-REF = 198.87
COMPUTED FREQUENCY = 19.25, K = .1520

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	16.378	152.70	6.941	161.40	3.865	175.43	2.697	196.36	2.781	232.08	3.342	231.44	3.416	235.94
2	.655	311.89	.418	320.17	.306	326.64	.363	344.82	.530	340.06	.056	294.39	.196	330.54
3	.182	311.36	.189	350.89	.206	357.70	.265	20.63	.159	348.33	.203	355.71	.205	7.79
4	.553	350.76	.463	324.21	.407	318.96	.446	322.68	.579	317.34	.587	325.68	.602	322.43
5	.102	180.03	.043	213.41	.030	236.93	.028	227.69	.051	337.04	.017	301.98	.015	24.76
6	.061	177.71	.071	175.52	.077	183.93	.094	188.63	.102	189.16	.094	186.04	.086	201.34
7	.066	45.12	.051	345.71	.054	347.01	.060	350.04	.055	31.43	.067	2.83	.063	355.19
8	.041	247.78	.028	323.68	.027	5.34	.033	13.53	.023	11.36	.016	26.12	.026	68.62
9	.020	88.79	.018	150.39	.025	179.91	.026	170.56	.023	166.91	.025	176.86	.022	234.44
10	.014	196.17	.037	196.02	.046	202.67	.050	206.72	.062	209.97	.068	207.87	.039	211.11

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.078	242.29	2.629	249.78	2.160	254.28	15.324	324.81	10.097	315.45	5.293	321.80	3.757	321.09
2	.198	332.72	.219	329.55	.193	324.08	.698	183.14	1.398	135.88	.105	233.24	.089	[illegible]
3	.222	.28	.235	.12	.225	359.41	.533	24.66	.372	24.39	.345	15.03	.304	15.59
4	.600	328.33	.648	329.71	.628	327.81	.666	280.95	.597	292.79	.608	304.96	.612	321.25
5	.010	346.05	.014	45.34	.008	13.37	.126	30.63	.120	15.43	.065	58.84	.053	75.82
6	.084	199.89	.077	204.27	.066	186.73	.107	205.28	.114	193.24	.091	201.38	.099	218.04
7	.052	4.57	.059	4.72	.051	359.25	.068	349.84	.088	355.99	.075	12.43	.081	34.04
8	.025	73.12	.034	91.51	.022	90.53	.078	88.03	.045	102.36	.050	111.13	.048	123.60
9	.015	249.78	.026	229.45	.018	231.86	.046	257.46	.026	268.61	.034	282.45	.029	310.93
10	.045	205.73	.040	220.33	.037	209.21	.073	221.22	.064	213.48	.045	216.34	.048	219.57

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.362	318.36	2.104	316.49	.934	315.95	1.062	300.02	1.737	297.69	1.563	277.05
2	.116	308.72	.180	323.16	.576	329.47	.138	190.91	.110	284.79	.197	344.45
3	.244	8.51	.256	2.44	.115	1.86	.343	2.93	.259	359.09	.225	355.27
4	.592	318.65	.757	327.47	.673	329.78	.736	329.28	.651	331.89	.625	333.74
5	.020	58.58	.027	79.21	.022	104.73	.022	78.97	.009	88.45	.008	246.10
6	.071	195.72	.087	200.26	.061	215.90	.073	189.52	.063	188.03	.064	195.01
7	.056	14.76	.072	35.66	.047	31.25	.069	29.72	.054	18.25	.043	28.92
8	.032	118.55	.037	120.17	.026	79.04	.023	137.10	.014	118.11	.009	52.21
9	.012	269.72	.017	276.67	.015	249.20	.011	150.65	.017	177.95	.015	177.28
10	.042	207.79	.051	208.80	.040	214.40	.046	204.81	.051	208.46	.047	207.35

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 68 ALPHA-MCL = 2.0 FMP RUN.PT 14.05
RUN 14 ALPHA-BAR = .5 Q-COMP = .32162
POINT 5 SIGMA = -90. V-REF = 198.87
COMPUTED FREQUENCY = 19.25, K = .1520

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	27.078	-16.341	13.774	-9.297	8.012	-3.582	5.511	-1.600	3.475	.625	3.634	1.196	2.585	2.181
2	-1.134	.450	-1.325	1.241	-.319	.084	-.341	.007	-.426	.091	.121	-.057	.326	-.196
3	.364	.359	.152	.184	.128	.098	.045	-.012	.085	.068	.054	.026	-.089	-.024
4	-.420	-.565	-.145	-.279	-.004	-.192	.122	-.112	.019	.001	.153	-.076	.105	.028
5	.210	.064	.151	.055	.050	.080	.032	.072	-.036	.037	-.004	.040	-.020	.015
6	-.036	-.048	-.040	-.032	-.008	-.028	.015	-.047	.032	-.003	.011	-.020	.031	-.005
7	.020	-.059	.038	.007	.020	.028	.008	.056	.007	-.014	-.009	.038	-.023	.030
8	.018	.116	-.032	.061	-.045	.044	-.058	.032	-.038	.024	-.033	.025	-.005	.001
9	-.011	-.065	.015	-.035	.032	-.033	.045	-.022	.023	-.017	.027	-.018	.007	.004
10	-.041	-.044	-.018	-.025	.006	-.009	.008	-.008	.017	.012	.016	.007	-.000	-.003

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.944	1.770	1.715	.929	.779	.508
2	-.311	.065	-.161	.005	.033	.061
3	.121	.016	.024	-.005	-.001	-.016
4	.121	-.060	.014	.021	.029	.058
5	-.006	.025	-.010	-.001	-.011	-.009
6	.007	.016	.008	.023	.003	-.009
7	.009	.027	-.009	.012	-.013	.022
8	-.024	-.008	-.006	-.022	.006	-.015
9	-.004	.020	.000	.020	-.004	.014
10	-.001	.000	-.011	.004	-.010	-.004

N	CNREAL	CNIMAG
1	4.921	-.911
2	-.239	.101
3	.061	.042
4	.044	-.076
5	.016	.037
6	.008	-.014
7	.002	.021
8	-.026	.020
9	.016	-.010
10	.002	-.003

N	CMREAL	CMIMAG
1	1.140	-.825
2	-.082	.049
3	.015	.016
4	-.014	-.028
5	.011	.007
6	-.002	-.004
7	.003	-.001
8	-.004	.008
9	.003	-.006
10	.000	-.002

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.454	-2.891	1.680	-3.024	-6.717	1.497	-1.980	-.922	2.756	5.543
2	.147	-.156	.219	.000	.301	-.476	.212	-.238	.374	.551
3	.361	.084	.318	-.015	.395	-.056	.273	.012	.707	-.126
4	.314	-.591	.315	-.544	.521	-.442	.463	-.369	.574	-.161
5	.019	.032	.021	.003	.001	.006	-.035	.021	-.049	-.063
6	-.105	-.023	-.079	-.018	-.122	.005	-.084	.009	-.102	-.020
7	.062	-.017	.105	.007	.010	-.007	.054	-.040	.032	-.055
8	.015	.049	-.014	.028	.042	-.016	.047	.021	.034	.016
9	-.017	-.021	-.032	-.007	-.005	-.018	-.005	-.033	-.071	-.024
10	-.058	-.026	-.054	-.019	-.053	-.004	-.039	-.027	-.070	-.052

*** STABILITY PARAMETER

* XI = .8247 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	68	ALPHA-MCL = 2.0		PDP RUN.PT	14.05
RUN	14	ALPHA-BAR = .5		Q-COMP =	.32162
POINT	5	SIGMA = -90.		V-REF =	198.87

COMPUTED FREQUENCY = 19.25, K = .1520

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	31.627	328.89	16.618	325.98	8.776	335.91	5.738	343.81	3.530	20.19	3.826	18.21	3.382	40.15
2	1.220	158.37	1.816	136.87	.330	165.23	.341	178.90	.436	167.99	.134	334.85	.380	328.91
3	.511	44.58	.239	50.31	.161	37.36	.046	345.45	.109	38.78	.060	25.98	.092	195.17
4	.704	233.42	.314	242.63	.192	268.84	.166	317.39	.019	3.36	.171	333.58	.108	15.13
5	.220	16.96	.161	20.14	.094	58.23	.079	66.30	.052	134.84	.041	95.27	.024	143.43
6	.060	233.07	.051	218.28	.029	253.67	.049	288.18	.032	354.77	.023	299.45	.031	351.42
7	.063	289.08	.039	9.78	.035	54.79	.056	82.10	.016	296.84	.039	102.62	.038	127.59
8	.118	81.08	.069	117.94	.063	135.84	.067	151.10	.045	148.13	.041	142.77	.005	164.65
9	.066	260.89	.038	293.16	.046	313.69	.050	334.10	.028	322.95	.032	326.45	.008	27.59
10	.060	227.03	.031	234.82	.011	304.86	.011	313.25	.021	34.34	.017	25.11	.003	269.90

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.629	42.32	1.951	28.43	.930	33.12
2	.317	168.26	.161	178.32	.069	61.49
3	.122	7.75	.025	349.38	.016	267.23
4	.136	333.51	.025	55.73	.065	63.61
5	.025	103.34	.010	188.41	.015	218.82
6	.018	67.55	.024	70.34	.010	289.66
7	.028	72.03	.014	122.71	.025	121.83
8	.026	199.03	.022	255.19	.016	290.77
9	.020	101.49	.020	89.38	.015	105.51
10	.001	156.49	.012	158.59	.011	200.87

N	CN-MAG	PHIN
1	5.004	349.51
2	.259	157.04
3	.074	34.31
4	.048	299.89
5	.040	66.72
6	.016	300.94
7	.021	83.21
8	.033	142.87
9	.019	327.66
10	.003	304.96

N	CM-MAG	PHIM
1	1.407	324.13
2	.095	149.22
3	.022	46.36
4	.032	243.10
5	.013	33.83
6	.005	243.20
7	.004	347.02
8	.008	116.98
9	.006	299.04
10	.002	272.94

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.237	296.70	3.459	299.06	6.882	167.44	2.184	204.96	6.390	63.57
2	.214	313.24	.219	.02	.563	302.28	.319	311.75	.666	55.87
3	.370	13.11	.318	357.31	.399	351.93	.273	2.45	.718	349.86
4	.669	297.96	.629	300.06	.683	319.64	.592	321.45	.596	344.32
5	.038	59.54	.021	8.13	.006	78.25	.041	148.54	.080	232.55
6	.107	192.52	.081	192.91	.122	177.65	.085	173.90	.104	191.15
7	.084	348.97	.105	4.00	.012	323.57	.067	323.30	.063	300.18
8	.052	72.87	.031	117.08	.045	339.29	.052	24.41	.037	25.67
9	.027	231.47	.032	191.96	.019	254.82	.034	260.95	.075	198.73
10	.064	205.73	.057	199.17	.053	183.88	.047	214.38	.087	216.63

*** STABILITY PARAMETER

* XI = .8247 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 51 ALPHA-MCL = 2.0 PDP RUN.PT 11.07
RUN 11 ALPHA-PAR = .5 Q-COMP = .32769
POINT 1 SIGMA = -45. V-REF = 200.80
COMPUTED FREQUENCY = 9.14, K = .0715

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-9.950	7.041	-4.659	1.530	-2.677	-.443	-1.592	-1.625	-.660	-3.229	-.788	-3.671	-.558	-4.300
2	.760	-.174	.795	-.076	.769	-.042	.936	.016	.944	-.007	.777	.037	.629	.036
3	-.977	.223	-.923	.338	-.926	.364	-.878	.397	-1.095	.275	-1.049	.363	-1.028	.054
4	-.583	-.011	-.790	-.153	-.864	-.211	-.891	-.193	-.973	-.316	-.959	-.298	-1.048	-.177
5	.150	-.382	.074	-.382	.046	-.340	.009	-.341	.069	-.377	.094	-.361	.061	-.307
6	-.380	.659	-.348	.677	-.367	.670	-.427	.636	-.456	.686	-.445	.653	-.200	.792
7	.426	.330	.444	.302	.421	.299	.437	.292	.445	.347	.435	.336	.533	.295
8	-.006	.049	.051	.045	.076	.061	.100	.053	.107	.063	.091	.089	.123	.069
9	-.120	.041	-.137	.069	-.139	.077	-.156	.070	-.195	.078	-.183	.072	-.187	.082
10	.021	-.003	-.004	.001	.002	.009	-.000	.025	-.019	.023	-.010	.020	.019	.176

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.144	-4.023	.163	-3.854	.324	-3.544	8.675	-10.277	5.040	-7.812	2.740	-4.738	2.085	-4.024
2	.855	.076	.964	.076	.860	.062	.309	.207	-.209	1.012	.698	.104	.748	.091
3	-1.011	.345	-1.048	.353	-1.013	.382	-.969	.607	-1.215	.592	-.918	.419	-.949	.388
4	-.957	-.320	-.962	-.335	-.950	-.303	-1.124	-.316	-1.051	-.340	-.974	-.288	-.949	-.328
5	.059	-.361	.050	-.358	.022	-.343	-.195	-.282	.002	-.312	-.030	-.347	.013	-.346
6	-.431	.623	-.425	.631	-.368	.631	-.358	.788	-.364	.732	-.389	.695	-.431	.630
7	.413	.333	.413	.348	.409	.306	.461	.204	.460	.222	.439	.253	.400	.314
8	.102	.113	.109	.122	.100	.121	.151	.055	.129	.054	.122	.085	.113	.112
9	-.177	.067	-.186	.077	-.172	.078	-.173	.142	-.182	.125	-.170	.112	-.178	.080
10	-.009	.027	-.007	.028	.009	.034	-.053	.053	-.030	.032	-.025	.022	-.009	.024

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.442	-3.114	1.495	-3.389	.918	-2.406	1.059	-2.684	1.667	-2.657	1.092	-2.743
2	.704	.092	.975	.106	1.016	-.029	.735	.119	.806	.082	.781	.180
3	-.893	.379	-1.102	.406	-1.072	.371	-.997	.385	-.897	.382	-.945	.360
4	-.882	-.280	-1.016	-.349	-.867	-.259	-.972	-.344	-.877	-.339	-.912	-.290
5	-.005	-.329	.006	-.407	.002	-.365	.004	-.351	.011	-.334	-.007	-.313
6	-.362	.627	-.471	.731	-.378	.632	-.381	.666	-.395	.607	-.377	.628
7	.417	.264	.486	.339	.399	.285	.458	.328	.394	.300	.398	.301
8	.105	.102	.130	.128	.097	.120	.138	.141	.092	.119	.104	.119
9	-.165	.093	-.209	.108	-.180	.075	-.181	.079	-.185	.070	-.177	.057
10	-.003	.006	.004	.013	.010	-.005	-.013	.016	.003	.016	.010	.018

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 51 ALPHA-MCL = 2.0 PDP RUN.PT 11.07
RUN 11 ALPHA-BAR = .5 Q-COMP = .32769
POINT 1 SIGMA = -45. V-REF = 200.80
COMPUTED FREQUENCY = 9.14, K = .0715

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	12.189	144.72	4.903	161.82	2.714	189.39	2.274	225.59	3.296	258.45	3.754	257.88	4.336	262.61
2	.779	347.06	.799	354.51	.770	356.87	.936	.97	.944	359.58	.778	2.76	.631	3.29
3	1.002	167.16	.983	159.90	.995	158.55	.964	156.66	1.129	165.89	1.109	160.92	1.029	177.01
4	.583	181.09	.805	190.93	.890	193.70	.912	192.19	1.023	198.00	1.004	197.29	1.063	189.60
5	.410	291.45	.389	280.98	.343	277.68	.341	271.44	.383	280.32	.373	284.65	.313	281.17
6	.718	121.97	.761	117.23	.764	118.74	.766	123.92	.823	123.61	.790	124.28	.817	104.18
7	.539	37.80	.537	34.25	.516	35.26	.525	33.74	.565	37.94	.550	37.71	.609	28.95
8	.049	96.70	.068	41.59	.097	38.89	.113	27.89	.124	30.59	.127	44.40	.141	29.30
9	.127	161.03	.154	153.41	.159	151.19	.171	155.93	.210	158.20	.197	158.46	.204	156.42
10	.021	350.99	.004	159.12	.009	74.32	.025	90.38	.030	129.56	.022	116.53	.177	83.91

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.026	267.95	3.858	272.42	3.559	275.22	13.449	310.17	9.297	302.83	5.474	300.04	4.532	297.39
2	.858	5.09	.867	5.00	.862	4.13	.372	33.89	1.033	101.65	.706	8.44	.754	6.93
3	1.068	161.16	1.106	161.38	1.083	159.37	1.144	147.96	1.352	154.02	1.009	155.46	1.025	157.78
4	1.009	198.49	1.019	199.22	.997	197.71	1.168	195.72	1.105	197.91	1.016	196.48	1.005	199.08
5	.365	279.21	.361	278.00	.343	273.69	.343	235.36	.312	270.40	.348	265.04	.346	272.10
6	.757	124.70	.761	123.97	.730	120.27	.866	114.44	.817	116.47	.797	119.25	.763	124.35
7	.530	38.86	.541	40.13	.511	36.79	.504	23.89	.511	25.74	.507	29.98	.508	38.19
8	.152	48.02	.163	48.18	.157	50.40	.161	20.02	.140	22.54	.149	34.77	.159	44.55
9	.189	159.12	.201	157.45	.189	155.64	.224	140.66	.220	145.49	.234	146.76	.196	155.77
10	.029	108.08	.029	104.99	.036	75.36	.075	134.99	.044	132.96	.034	138.02	.026	111.26

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.432	294.85	3.704	293.80	2.575	290.89	2.885	291.53	3.137	302.11	2.952	291.70
2	.710	7.46	.882	6.87	1.016	358.34	.745	9.16	.810	5.79	.801	12.97
3	.970	157.03	1.175	159.77	1.134	160.94	1.069	158.87	.975	156.91	1.011	159.15
4	.925	197.60	1.074	198.95	.904	196.62	1.031	199.47	.940	201.11	.957	197.66
5	.329	269.11	.407	270.78	.385	270.23	.351	270.69	.334	271.94	.313	268.76
6	.724	120.02	.870	122.75	.736	120.92	.768	119.79	.724	123.03	.732	120.98
7	.494	32.34	.592	34.88	.490	35.59	.563	35.61	.495	37.24	.499	37.05
8	.146	43.99	.183	44.69	.154	51.15	.197	45.69	.151	52.27	.158	48.80
9	.189	150.70	.235	152.72	.194	157.44	.197	156.32	.198	159.37	.186	162.10
10	.007	117.02	.014	73.46	.011	335.46	.020	129.12	.016	80.59	.021	60.73

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 51	ALPHA-MCL = 2.0	PDP RUN.PT 11.07	
RUN 11	ALPHA-FAR = .5	Q-COMP = .32769	
POINT 1	SIGMA = -45.	V-REF = 200.80	

COMPUTED FREQUENCY = 9.14, K = .0715

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	18.625	-17.318	9.690	-9.342	5.417	-4.296	3.677	-2.399	2.102	.115	2.283	.281	1.476	1.895
2	-.451	.382	-1.004	1.088	-.070	.146	-.188	.075	-.240	.099	.098	.068	.386	-.066
3	.008	.384	-.292	.254	.008	.055	-.071	-.009	.202	.103	-.054	.043	-.044	.317
4	-.541	-.305	-.261	-.187	-.110	-.077	-.058	-.136	.091	.036	-.057	-.050	.182	-.081
5	-.345	.100	-.072	.069	-.076	-.007	.004	-.005	-.074	.049	-.089	-.046	-.059	-.078
6	.022	.179	-.016	.055	-.022	.025	-.003	-.005	.094	-.059	-.025	.079	-.178	-.160
7	.035	-.126	.016	-.080	.018	-.045	-.037	.023	-.028	-.083	.051	.003	-.134	-.009
8	.157	.006	.078	.006	.047	.024	.014	.059	-.002	.038	.039	.039	-.026	.051
9	-.053	.100	-.044	.056	-.031	.035	-.022	.011	.030	.015	-.026	.036	.007	-.007
10	-.074	.057	-.026	.031	-.027	.014	-.009	-.001	.016	-.017	.014	-.006	-.008	-.181

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.233	1.339	1.505	1.197	.768	.802
2	-.120	.042	-.050	.006	-.079	.118
3	.014	.040	.151	.029	.068	-.022
4	-.016	-.024	.085	-.003	.038	.013
5	-.054	.010	-.039	.023	-.029	.030
6	.050	.044	.031	-.024	-.009	-.003
7	.045	-.005	-.019	-.049	-.011	-.005
8	.036	.028	-.017	-.002	.004	-.002
9	-.004	.012	.001	-.007	-.005	-.021
10	-.004	-.011	.010	-.012	.001	-.016

N	CNREAL	CNIMAG
1	3.295	-1.348
2	-.107	.141
3	.002	.097
4	-.019	-.060
5	-.062	.002
6	-.010	-.003
7	-.012	-.027
8	.022	.030
9	-.010	.017
10	-.005	-.024

N	CMREAL	CMIMAG
1	.776	-.892
2	-.049	.043
3	-.012	.009
4	-.026	-.014
5	-.006	.008
6	.002	.006
7	.002	-.005
8	.006	.002
9	-.003	.006
10	-.003	.007

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.725	-4.133	1.066	-4.340	-4.921	.367	-1.087	-2.259	-.440	3.581
2	.963	.041	1.290	.007	1.047	-.183	.985	.040	.719	.479
3	-1.219	.558	-1.340	.627	-1.311	.396	-1.216	.436	-.930	.450
4	-1.343	-.296	-1.421	-.101	-1.075	-.296	-1.157	-.292	-1.118	-.278
5	-.029	-.496	-.064	-.505	.011	-.537	.063	-.472	-.045	-.437
6	-.535	.983	-.479	1.189	-.529	.877	-.536	.838	-.507	.637
7	.605	.342	.527	.298	.594	.433	.471	.395	.294	.453
8	.133	.070	.127	.034	.060	.071	.108	.088	.051	.113
9	-.216	.158	-.143	.226	-.210	.025	-.165	.099	-.159	.040
10	-.033	.046	.049	.002	-.024	.036	.012	.029	.044	.041

*** STABILITY PARAMETER

* XI = .8922 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 51 ALPHA-MCL = 2.0 POP RUN.PT 11.07
RUN 11 ALPHA-PAR = .5 Q-COMP = .32769
POINT 1 SIGMA = -45. V-REF = 200.80
COMPUTED FREQUENCY = 9.14, K = .0715

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	25.432	317.08	13.467	316.07	6.914	321.59	4.390	326.87	2.105	3.13	2.300	7.03	2.402	52.08
2	.591	139.75	1.480	132.69	.162	115.74	.202	158.18	.260	157.55	.119	34.72	.392	350.36
3	.384	88.83	.387	138.95	.056	82.18	.072	187.61	.227	27.10	.069	141.01	.320	97.95
4	.621	209.41	.321	215.64	.135	215.14	.148	246.93	.098	21.77	.076	221.31	.199	335.90
5	.359	163.83	.100	136.09	.076	185.34	.006	311.20	.088	146.55	.100	207.55	.098	232.97
6	.180	83.01	.057	106.20	.034	130.94	.006	237.97	.111	327.78	.043	107.96	.240	221.96
7	.131	285.63	.082	281.57	.048	291.59	.043	148.65	.088	251.29	.051	2.83	.134	184.01
8	.157	2.35	.079	6.15	.052	27.10	.061	76.83	.038	92.29	.055	45.38	.057	117.34
9	.114	117.84	.072	128.33	.047	131.56	.025	154.67	.033	25.93	.044	126.30	.010	316.42
10	.093	142.71	.041	130.48	.031	153.06	.009	184.07	.023	313.32	.015	335.89	.181	267.32

X =	.774		.860		.910		N	CN-MAG	PHIN	N	CM-MAG	PHIM
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI						
1	1.800	48.08	1.923	38.50	1.110	46.23	1	3.560	337.75	1	1.183	311.02
2	.127	160.57	.058	173.99	.142	123.73	2	.177	127.28	2	.065	139.23
3	.043	70.65	.153	11.02	.072	342.49	3	.097	88.65	3	.015	142.38
4	.029	236.18	.035	357.90	.040	18.79	4	.063	252.12	4	.030	208.85
5	.055	169.90	.045	149.12	.042	133.99	5	.062	178.12	5	.007	148.20
6	.066	41.39	.039	321.75	.009	198.20	6	.011	197.41	6	.007	69.14
7	.045	354.13	.052	248.74	.012	206.23	7	.029	246.61	7	.006	292.63
8	.046	38.02	.017	188.23	.004	330.27	8	.037	54.23	8	.006	15.01
9	.012	108.05	.007	273.91	.021	257.01	9	.019	120.80	9	.006	119.92
10	.012	250.65	.016	309.87	.016	274.43	10	.024	258.65	10	.007	113.19

*** STABILITY PARAMETER

XI = .8922

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.196	279.95	4.469	283.80	4.934	175.74	2.507	244.31	3.608	97.00
2	.964	2.46	1.290	.29	1.063	350.09	.986	2.31	.864	33.69
3	1.340	155.39	1.479	154.92	1.370	163.18	1.292	160.26	1.033	154.17
4	1.375	192.42	1.425	184.07	1.115	195.39	1.193	194.15	1.152	193.97
5	.496	266.68	.509	262.79	.537	271.17	.476	277.61	.439	264.16
6	1.119	118.56	1.282	111.97	1.024	121.10	.995	122.58	.814	128.49
7	.696	29.41	.605	29.49	.735	36.12	.614	39.99	.540	57.04
8	.150	27.69	.132	15.17	.093	50.03	.140	39.23	.124	65.55
9	.268	143.85	.267	122.27	.211	173.34	.193	149.05	.164	165.74
10	.057	126.18	.049	2.68	.043	124.21	.031	66.40	.060	42.70

ORIGINAL PAGE IS
OF POOR QUALITY

OCMT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 53   ALPHA-MCL = 2.0   PDP RUN.PT 11.09
RUN 11   ALPHA-BAR = .5   Q-COMP = .32646
POINT 3   SIGMA = -45.   V-REF = 200.42
COMPUTED FREQUENCY = 15.62, K = .1225

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-9.074	7.612	-4.154	2.096	-2.351	.115	-1.484	-1.048	-.639	-2.742	-.819	-3.078	-.622	-3.213
2	.462	-.936	.430	-.946	.422	-.899	.465	-.874	.553	-.959	.303	-.840	.289	-.896
3	-.456	.286	-.255	.346	-.225	.326	-.143	.321	-.262	.282	-.159	.326	.001	.318
4	-.097	.142	-.190	.096	-.214	.067	-.206	.058	-.256	.048	-.247	.043	-.274	-.078
5	.202	-.025	.237	-.144	.275	-.134	.329	-.124	.377	-.106	.387	-.121	.373	-.196
6	-.067	.144	-.043	.085	-.030	.064	-.031	.060	-.065	.061	-.041	.064	-.000	.031
7	.039	-.113	.061	-.028	.087	-.079	.091	-.071	.094	-.090	.112	-.062	.095	-.076
8	-.002	-.025	.031	-.017	.022	-.007	.025	-.002	.029	-.008	.024	-.008	.061	-.008
9	.020	.012	-.011	.034	-.018	.033	-.020	.026	-.020	.009	-.021	.025	.026	.038
10	.004	.048	.000	.051	-.002	.050	-.008	.058	-.008	.046	-.017	.049	-.032	.068

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.155	-3.355	.160	-3.176	.318	-2.919	7.778	-9.603	4.304	-7.334	2.643	-3.935	1.987	-3.172
2	.375	-.861	.390	-.897	.348	-.902	-.193	-.581	-.090	.122	.214	-.779	.268	-.817
3	-.145	.307	-.144	.341	-.121	.345	.187	.371	.014	.551	-.021	.372	-.066	.367
4	-.222	.009	-.224	-.006	-.208	.009	-.394	-.043	-.312	-.011	-.279	-.031	-.251	-.059
5	.415	-.048	.428	-.032	.409	-.049	.419	-.212	.394	-.186	.366	-.116	.379	-.045
6	-.039	.059	-.017	.066	-.019	.060	-.030	.002	-.024	.037	-.012	.038	-.012	.060
7	.096	-.055	.089	-.058	.088	-.052	.046	-.051	.069	-.066	.055	-.068	.065	-.055
8	.029	.001	.022	.001	.020	.000	-.007	.009	.005	.009	.003	.010	.010	.006
9	-.016	.016	-.015	.010	-.022	.010	-.042	-.027	-.024	-.013	-.023	-.018	-.020	-.009
10	-.023	.038	-.020	.037	-.017	.038	.009	.028	.018	.028	-.003	.034	-.021	.024

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.372	-2.356	1.429	-2.486	.984	-1.663	1.005	-1.881	1.437	-2.374	.856	-2.128
2	.278	-.775	.364	-.928	.440	-1.018	.304	-.853	.361	-.843	.396	-.848
3	-.071	.354	-.135	.402	-.150	.465	-.137	.374	-.116	.335	-.141	.357
4	-.217	-.012	-.234	-.029	-.195	-.050	-.219	-.021	-.184	-.009	-.202	-.002
5	.347	-.064	.435	-.062	.398	-.007	.417	-.035	.386	-.030	.360	-.020
6	-.007	.060	-.009	.081	-.020	.026	.007	.075	-.023	.076	-.019	.069
7	.060	-.059	.062	-.080	.059	-.063	.062	-.047	.053	-.048	.064	-.051
8	-.005	.003	.002	.004	.009	.012	-.001	-.005	.000	-.012	.020	-.017
9	-.021	-.004	-.022	-.013	-.014	-.001	-.024	-.001	-.025	-.000	-.024	.006
10	-.006	.025	-.017	.027	-.021	.026	-.006	.032	-.012	.017	-.013	.022

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	53	ALPHA-MCL = 2.0	PDP RUN.PT	11.09
RUN	11	ALPHA-BAR = .5	Q-COMP =	.32646
POINT	3	SIGMA = -45.	V-REF =	200.42

COMPUTED FREQUENCY = 15.62, K = .1225

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	11.844	140.01	4.653	153.22	2.354	177.19	1.817	215.23	2.816	256.88	3.165	255.09	3.272	259.65
2	1.044	296.29	1.039	294.46	.993	295.15	.990	298.03	1.107	299.98	.892	289.82	.942	287.90
3	.547	148.45	.430	126.33	.396	124.68	.351	114.01	.385	132.83	.363	116.08	.318	89.03
4	.172	124.31	.213	153.13	.224	162.62	.214	164.33	.261	169.38	.251	170.13	.285	195.92
5	.204	352.86	.278	328.70	.306	333.93	.352	339.32	.392	344.24	.405	342.62	.421	332.28
6	.159	115.00	.095	116.71	.071	115.20	.067	117.41	.089	136.55	.076	122.30	.031	90.71
7	.119	288.95	.119	312.65	.118	317.95	.115	322.04	.130	316.19	.128	330.94	.122	321.50
8	.025	264.99	.021	302.84	.023	343.20	.025	354.94	.030	343.54	.025	342.13	.061	352.92
9	.024	31.60	.036	108.13	.038	118.84	.033	126.98	.022	157.10	.033	130.55	.046	55.42
10	.048	85.58	.051	89.86	.050	91.88	.059	97.48	.047	99.73	.052	109.71	.075	115.50

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.359	267.35	3.180	272.88	2.936	276.22	12.358	309.01	8.503	300.41	4.740	303.89	3.743	302.07
2	.939	293.52	.978	293.48	.967	291.08	.613	251.68	.151	126.36	.838	285.36	.860	288.16
3	.339	115.29	.370	112.95	.365	109.40	.416	63.28	.551	88.55	.373	93.18	.373	100.13
4	.222	177.57	.224	181.46	.208	177.40	.396	186.20	.312	182.03	.281	186.32	.258	193.17
5	.418	353.46	.429	355.76	.412	353.21	.470	333.13	.436	334.79	.384	342.48	.382	353.30
6	.070	123.29	.068	104.61	.063	107.04	.030	175.42	.044	122.86	.040	107.21	.061	101.55
7	.111	330.23	.106	326.74	.103	329.38	.069	312.27	.095	316.21	.087	308.99	.085	319.80
8	.029	2.02	.022	3.01	.020	.40	.011	128.75	.010	58.17	.011	72.69	.012	29.71
9	.023	135.44	.018	148.04	.025	156.32	.050	212.87	.028	208.94	.029	218.90	.022	203.67
10	.044	121.36	.042	118.41	.042	113.66	.030	71.70	.033	57.54	.034	94.80	.032	131.17

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.727	300.22	2.868	299.89	1.932	300.60	2.132	298.13	2.775	301.18	2.294	291.92
2	.824	289.69	.997	291.40	1.109	293.39	.906	289.64	.917	293.17	.936	295.01
3	.362	101.33	.424	108.56	.489	107.87	.399	110.11	.355	109.14	.384	111.56
4	.217	183.29	.236	187.15	.201	194.29	.220	185.36	.184	182.66	.202	180.67
5	.357	346.33	.440	351.94	.398	359.01	.419	355.22	.388	355.58	.361	356.75
6	.060	96.36	.082	96.51	.033	128.57	.075	84.82	.080	107.03	.072	105.18
7	.084	315.40	.101	307.59	.087	313.39	.077	322.83	.072	317.53	.082	321.78
8	.006	146.33	.004	68.02	.015	54.28	.006	261.99	.012	270.97	.027	319.86
9	.021	191.76	.026	209.62	.014	182.21	.024	183.23	.025	180.18	.024	179.65
10	.025	103.07	.030	115.05	.033	129.49	.032	101.59	.021	125.82	.026	119.27

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 53 ALPHA-MCL = 2.0 PDP RUN.PT 11.09
RUN 11 ALPHA-PAR = .5 Q-COMP = .32646
POINT 3 SIGMA = -45. V-REF = 200.42
COMPUTED FREQUENCY = 15.62, K = .1225

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	16.853	-17.215	8.458	-9.430	4.994	-4.050	3.472	-2.123	2.012	.386	2.248	.591	1.605	1.550
2	-.655	.354	-.520	1.067	-.208	.119	-.197	.056	-.276	.183	.061	-.089	.151	-.122
3	.653	.085	.269	.205	.205	.047	.077	.046	.191	.072	.024	.077	-.151	.147
4	-.297	-.185	-.122	-.107	-.065	-.098	-.045	-.116	.040	-.061	.014	-.072	.079	.028
5	.217	-.187	.157	-.041	.091	.019	.050	.080	-.031	.022	.048	.059	.025	.189
6	.037	-.141	.019	-.048	.018	-.026	.019	-.000	.058	-.001	.031	.017	-.020	-.006
7	.008	.061	-.012	.022	-.033	.011	-.026	.016	-.034	.031	-.050	-.018	-.036	.013
8	-.005	.034	-.006	.026	-.019	.017	-.015	.008	-.034	.012	-.022	.012	-.052	.020
9	-.062	-.040	-.013	-.048	-.005	-.051	.000	-.035	-.000	-.013	-.031	-.038	-.041	-.038
10	.006	-.019	.017	-.024	-.001	-.016	-.013	-.034	.002	-.022	.005	-.022	.011	-.042

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.160	1.475	1.277	.802	.538	.791
2	-.070	.007	-.029	.053	.048	.354
3	.008	.068	.028	-.006	-.020	.012
4	.003	-.030	.040	-.003	.006	-.012
5	.002	.013	-.042	.002	-.049	.028
6	.045	.016	-.006	.011	-.000	.009
7	-.034	.008	-.036	.010	-.024	.002
8	-.030	-.006	-.022	-.013	.000	-.017
9	-.008	-.017	-.010	-.010	-.001	-.010
10	.016	-.006	.007	-.019	.004	-.016

N	CNREAL	CNIMAG
1	3.048	-1.264
2	-.116	.110
3	.080	.073
4	-.010	-.056
5	.032	.042
6	.021	-.006
7	-.030	.011
8	-.042	.008
9	-.010	-.029
10	.004	-.022

N	CMREAL	CMIMAG
1	.701	-.863
2	-.045	.046
3	.033	.006
4	-.014	-.013
5	.014	-.006
6	.002	-.005
7	.001	.002
8	.000	.003
9	-.000	-.003
10	-.001	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.783	-3.325	1.077	-3.739	-4.316	1.165	-.855	-1.562	.237	4.106
2	.384	-1.091	.607	-1.044	.536	-1.387	.439	-1.075	.090	-.721
3	-.090	.515	-.077	.587	-.345	.414	-.201	.449	-.172	.422
4	-.349	.052	-.408	.194	-.293	.101	-.271	.073	-.307	-.043
5	.415	-.218	.460	-.250	.368	-.155	.389	-.113	.442	.075
6	-.064	.042	-.041	.063	-.034	.052	-.045	.102	-.114	.140
7	.063	-.097	.061	-.166	.141	-.117	.097	-.106	-.011	-.039
8	.033	-.003	.065	-.040	.034	.008	.030	-.026	.075	-.052
9	-.028	.003	.037	.023	-.029	.036	-.009	.036	-.049	.017
10	.018	.051	.024	.007	-.011	.103	-.027	.070	-.034	.036

*** STABILITY PARAMETER

* XI = .8632 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 53	ALPHA-MCL = 2.0	PDP RUN.PT 11.09	
RUN 11	ALPHA-BAR = .5	Q-COMP = .32646	
POINT 3	SIGMA = -45.	V-REF = 200.42	

COMPUTED FREQUENCY = 15.62, K = .1225

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	24.091	314.39	12.667	311.89	6.430	320.96	4.069	328.55	2.448	10.86	2.325	14.74	2.231	43.99
2	.744	151.59	1.187	115.97	.240	150.14	.205	164.06	.331	146.38	.108	304.61	.194	321.10
3	.659	7.42	.338	37.35	.210	12.81	.090	31.02	.204	20.77	.080	72.35	.211	135.77
4	.350	211.96	.163	221.33	.118	236.26	.125	248.69	.072	303.39	.074	280.78	.084	19.83
5	.286	319.24	.162	345.24	.093	11.63	.094	57.79	.038	143.99	.077	50.82	.191	82.45
6	.146	284.60	.051	291.46	.032	305.17	.019	359.65	.058	358.62	.036	28.73	.021	196.42
7	.062	82.76	.025	118.98	.034	161.20	.030	148.34	.045	137.68	.053	200.36	.038	160.32
8	.034	98.00	.027	102.69	.025	138.00	.017	151.29	.036	160.58	.025	152.00	.055	159.26
9	.074	212.47	.049	254.90	.051	264.83	.035	270.22	.013	269.86	.038	268.72	.056	223.49
10	.020	286.50	.029	306.24	.016	265.53	.037	248.67	.022	274.80	.022	282.55	.043	284.79

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.877	51.60	1.508	32.11	.957	55.75
2	.071	173.94	.060	118.19	.072	48.74
3	.068	83.33	.029	348.67	.023	147.94
4	.030	275.88	.040	355.94	.013	296.69
5	.013	82.44	.042	177.47	.056	149.91
6	.048	19.65	.012	120.63	.009	91.87
7	.035	166.65	.037	164.71	.024	175.82
8	.030	192.35	.025	211.06	.017	271.54
9	.019	245.37	.014	224.82	.010	263.56
10	.017	340.11	.021	290.80	.016	284.83

N	CN-MAG	PHIN
1	3.300	337.48
2	.160	136.64
3	.108	42.56
4	.057	260.16
5	.053	52.42
6	.021	343.97
7	.032	159.73
8	.024	159.65
9	.030	251.19
10	.023	280.94

N	CM-MAG	PHIM
1	1.112	309.09
2	.064	134.90
3	.034	10.32
4	.019	222.66
5	.015	336.35
6	.006	293.06
7	.002	70.98
8	.003	81.35
9	.003	265.59
10	.001	227.12

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.416	283.24	3.891	286.07	4.471	164.89	1.781	241.32	4.113	86.69
2	1.156	289.37	1.207	300.18	1.487	291.13	1.161	292.19	.726	277.11
3	.523	99.86	.592	97.44	.539	129.80	.492	114.11	.455	112.14
4	.353	171.49	.452	154.61	.310	160.99	.281	165.03	.310	187.41
5	.468	332.28	.524	331.51	.400	337.11	.405	343.84	.449	9.60
6	.076	147.00	.076	123.02	.062	123.35	.111	113.57	.181	129.19
7	.128	310.50	.176	290.13	.183	320.40	.143	312.62	.040	254.67
8	.033	354.65	.076	328.36	.035	13.12	.040	318.76	.092	325.39
9	.028	173.21	.043	32.55	.047	129.24	.037	104.20	.052	160.80
10	.054	71.03	.025	16.15	.103	96.04	.075	110.81	.050	133.48

*** STABILITY PARAMETER

* XI = .8632 *

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 55 ALPHA-MCL = 2.0 PDP RUN.PT 11.11
RUN 11 ALPHA-PAR = .5 Q-COMP = .32465
POINT 5 SIGMA = -45. V-REF = 199.85
COMPUTED FREQUENCY = 19.26, K = .1514

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-9.436	7.950	-5.030	2.774	-3.409	.852	-2.680	-.161	-2.042	-1.691	-2.185	-2.079	-2.077	-2.335
2	-.153	-.494	-.254	-.302	-.278	-.215	-.276	-.191	-.126	-.271	-.402	-.085	-.341	-.284
3	-.375	-.114	-.226	-.059	-.176	-.065	-.133	-.081	-.181	-.132	-.126	-.134	-.054	-.077
4	.152	.035	-.029	.072	-.107	.061	-.140	.061	-.196	.055	-.189	.077	-.163	.045
5	-.159	-.130	-.094	-.072	-.068	-.037	-.072	-.040	-.055	-.026	-.050	-.038	-.028	-.014
6	-.218	.192	-.242	.039	-.244	-.016	-.251	-.039	-.260	-.062	-.256	-.064	-.193	-.058
7	-.037	.096	.026	.035	.029	.039	.028	.038	.018	.054	.052	.031	.048	.010
8	-.006	-.011	.003	.012	-.001	.024	-.006	.031	-.011	.038	-.015	.045	-.000	.011
9	.000	-.023	.007	-.016	.004	-.022	.003	-.027	-.010	-.035	.001	-.027	-.014	-.053
10	-.014	-.021	-.004	-.012	.003	-.011	.006	-.013	.011	-.005	.012	-.010	.053	.008

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.549	-2.247	-1.253	-2.069	-1.130	-1.772	5.977	-8.153	2.404	-6.580	1.136	-2.711	.461	-1.925
2	-.348	-.128	-.348	-.158	-.357	-.151	-.823	.342	-.583	.512	-.493	-.031	-.444	-.100
3	-.098	-.129	-.067	-.105	-.069	-.093	.211	-.061	.046	.002	-.020	-.029	-.047	-.038
4	-.217	.000	-.243	-.036	-.222	-.044	-.395	-.019	-.299	.019	-.245	-.049	-.215	-.080
5	-.051	-.009	-.061	.011	-.065	.011	-.016	.137	-.047	.052	-.063	.069	-.073	.039
6	-.201	-.080	-.188	-.073	-.179	-.064	-.184	-.215	-.196	-.149	-.153	-.108	-.142	-.127
7	.051	.046	.047	.046	.059	.047	.020	.012	.046	.031	.013	.045	-.002	.054
8	-.027	.045	-.031	.045	-.027	.039	-.040	.041	-.029	.045	-.036	.039	-.050	.028
9	.007	-.033	.011	-.039	.007	-.032	.029	-.053	.023	-.036	.030	-.043	.041	-.041
10	.006	-.005	.005	-.008	.004	-.006	.006	-.004	-.004	-.004	.001	-.008	.008	-.012

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.016	-1.265	-.293	-1.153	-.502	-.422	-.579	-.777	-.296	-1.217	-.722	-1.070
2	-.400	-.098	-.428	-.161	-.264	-.331	-.429	-.105	-.369	-.096	-.318	-.182
3	-.053	-.036	-.121	-.065	-.109	.029	-.082	-.092	-.068	-.082	-.096	-.068
4	-.201	-.038	-.230	-.071	-.217	-.119	-.231	-.059	-.203	-.041	-.206	-.082
5	-.067	.036	-.093	.026	-.088	.055	-.078	-.001	-.073	-.002	-.064	-.002
6	-.149	-.058	-.169	-.064	-.132	-.041	-.160	-.043	-.155	-.036	-.160	-.033
7	.022	.042	.014	.066	-.002	.031	.047	.061	.040	.058	.037	.055
8	-.031	.025	-.035	.032	-.034	.041	-.032	.024	-.035	.019	-.030	.024
9	.014	-.032	.008	-.043	.016	-.024	.002	-.036	-.003	-.029	-.002	-.029
10	.001	-.011	.007	-.008	.010	-.017	.010	-.013	.014	-.010	.011	-.009

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 55 ALPHA-MCL = 2.0 PDP RUN.PT 11.11
RUN 11 ALPHS-BAR = .5 Q-COMP = .32465
POINT 5 SIGMA = -45. V-REF = 199.85
COMPUTED FREQUENCY = 19.26, K = .1514

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	12.338	139.89	5.745	151.13	3.513	165.97	2.685	183.44	2.651	219.63	3.017	223.58	3.125	228.35
2	.517	252.79	.394	229.90	.352	217.80	.336	214.60	.299	244.98	.410	191.90	.443	219.82
3	.392	196.87	.234	194.72	.188	200.30	.155	211.46	.224	216.12	.184	226.81	.094	234.82
4	.156	12.87	.078	112.26	.123	150.03	.153	156.40	.204	164.23	.204	157.91	.169	164.43
5	.205	219.28	.118	217.63	.078	208.24	.082	209.26	.061	205.10	.063	217.04	.031	206.94
6	.290	138.64	.245	170.71	.244	183.74	.254	188.85	.267	193.43	.264	193.94	.202	196.77
7	.103	110.86	.044	53.33	.049	53.91	.047	54.14	.057	71.48	.061	31.09	.049	12.14
8	.012	241.15	.012	77.24	.024	92.49	.032	100.36	.039	105.94	.048	108.12	.011	92.09
9	.023	270.20	.017	293.37	.022	279.71	.027	277.27	.037	254.60	.027	272.87	.055	255.56
10	.026	235.63	.013	252.04	.011	285.69	.015	293.35	.012	334.55	.016	319.50	.054	9.00

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.729	235.41	2.419	238.79	2.102	237.47	10.109	306.25	7.405	290.07	2.939	292.73	1.979	283.47
2	.371	200.21	.382	204.40	.388	202.95	.892	157.42	.776	138.69	.494	183.65	.455	192.75
3	.156	235.48	.125	237.38	.116	233.29	.220	343.97	.046	3.00	.035	234.90	.061	219.63
4	.217	179.90	.246	188.45	.226	191.21	.395	182.77	.300	176.36	.250	191.39	.229	200.43
5	.051	190.58	.062	169.78	.066	170.67	.138	96.71	.070	132.48	.093	132.50	.082	152.10
6	.217	201.71	.202	201.12	.190	199.57	.283	229.51	.247	217.28	.188	215.22	.190	221.95
7	.069	82.40	.066	44.34	.075	38.31	.024	30.97	.056	34.10	.047	73.76	.054	92.10
8	.053	120.94	.055	124.61	.047	125.43	.057	134.34	.053	122.48	.053	132.95	.057	150.74
9	.033	282.53	.040	285.74	.032	282.95	.061	298.85	.043	302.74	.052	304.63	.058	314.75
10	.008	320.36	.009	301.01	.007	299.07	.007	327.65	.006	218.71	.008	274.86	.015	301.49

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.265	269.26	1.190	255.74	.656	220.06	.969	233.32	1.252	256.33	1.291	235.97
2	.412	193.80	.457	200.68	.424	231.40	.441	193.82	.382	194.61	.367	209.78
3	.073	209.38	.137	208.05	.113	164.88	.123	228.18	.107	230.33	.118	215.06
4	.205	190.81	.241	197.08	.248	208.71	.238	194.28	.207	191.44	.222	201.68
5	.076	151.82	.097	164.55	.103	148.04	.078	181.00	.073	181.58	.064	181.79
6	.160	201.32	.180	200.75	.138	197.16	.165	194.92	.159	192.90	.163	191.75
7	.047	61.94	.068	78.30	.031	94.24	.077	52.69	.070	55.42	.066	55.46
8	.039	140.97	.050	139.41	.054	129.27	.040	143.95	.039	151.69	.039	141.29
9	.035	293.79	.044	280.94	.029	304.05	.036	273.40	.029	264.44	.029	265.59
10	.011	273.37	.010	311.16	.015	309.38	.016	307.59	.018	324.17	.014	321.81

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 55 ALPHA-MCL = 2.0 PDP RUN.PT 11.11
RUN 11 ALPHA-BAR = .5 Q-COMP = .32465
POINT 5 SIGMA = -45. V-REF = 199.85
COMPUTED FREQUENCY = 19.26, K = .1514

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	15.413	-15.103	7.434	-9.354	4.544	-3.563	3.141	-1.764	2.025	.426	1.892	.926	1.574	1.912
2	-.670	.836	-.329	.814	-.215	.184	-.168	.090	-.273	.172	-.026	-.077	.076	-.047
3	.586	.053	.272	.062	.156	.036	.085	.043	.117	.096	.005	.070	-.054	.106
4	-.547	-.054	-.270	-.053	-.138	-.111	-.075	-.141	-.005	-.094	-.041	-.147	-.055	-.165
5	.143	.267	.046	.124	.005	.105	-.001	.079	-.012	.062	-.043	.064	-.060	.069
6	.034	-.407	.045	-.189	.091	-.092	.110	-.088	.111	.004	.088	-.000	.061	.017
7	.057	-.384	.020	-.004	-.016	.006	-.030	.016	.004	-.012	-.038	.035	-.050	.021
8	-.034	.051	-.031	.033	-.035	.014	-.044	-.003	-.020	-.013	-.023	-.013	-.034	.031
9	.029	-.030	.016	-.020	.026	-.021	.037	-.015	.024	.003	.007	-.016	.030	.029
10	.021	.017	-.000	.039	-.002	.003	.002	.001	-.010	-.005	-.005	.003	-.043	-.020

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.971	1.470	.957	.852	.408	.702
2	-.081	.023	-.021	.062	.039	-.031
3	.006	.037	-.001	.023	-.027	.025
4	-.014	-.059	.040	-.005	.016	-.038
5	-.028	.008	-.012	-.013	.001	-.013
6	.041	.038	.033	.037	.020	.031
7	-.004	.015	-.007	.012	-.022	.008
8	-.005	-.022	-.003	-.027	-.003	-.014
9	-.005	-.003	-.014	.010	-.009	.003
10	.004	-.008	.010	-.002	.008	-.002

N	CNREAL	CNIMAG
1	2.749	-1.030
2	-.123	.121
3	.071	.058
4	-.070	-.097
5	-.010	.062
6	.069	-.035
7	-.016	.008
8	-.023	.000
9	.015	-.004
10	-.005	-.002

N	CMREAL	CMIMAG
1	.641	-.822
2	-.037	.050
3	.029	.002
4	-.023	-.005
5	.006	.014
6	.006	-.021
7	.002	-.002
8	-.003	.003
9	.003	-.003
10	.000	.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.089	-1.962	-.986	-2.396	-5.464	2.108	-2.269	-.492	-1.276	4.584
2	-.600	-.125	-.421	-.158	-.345	-.444	-.430	-.232	-.760	-.042
3	-.132	-.060	-.122	.021	-.227	-.094	-.192	-.090	-.039	-.022
4	-.239	.051	-.238	.105	-.121	.070	-.224	.035	-.265	-.277
5	-.077	.038	-.085	.075	-.203	-.147	-.107	.053	-.052	.087
6	-.257	-.087	-.253	-.134	-.334	-.013	-.296	-.072	-.331	-.100
7	.030	.022	.020	.047	-.019	.056	.015	.051	-.081	.039
8	-.019	.042	-.024	.056	.009	.006	-.014	.032	-.022	-.003
9	.020	-.046	.007	-.030	.011	-.037	.028	-.035	-.005	-.084
10	.001	-.028	-.005	-.014	.009	-.013	.017	-.012	.021	-.034

*** STABILITY PARAMETER

XI = .8215

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 55 ALPHA-MCL = 2.0 PDP RUN.PT 11.11
RUN 11 ALPHA-BAR = .5 Q-COMP = .32465
POINT 5 SIGMA = -45. V-REF = 199.85
COMPUTED FREQUENCY = 19.26, K = .1514

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	22.290	313.75	11.948	308.48	5.775	321.90	3.602	330.69	2.070	11.87	2.107	26.08	2.477	50.54
2	1.072	128.70	.877	112.00	.283	139.47	.190	151.70	.323	147.77	.081	251.[illegible]	.090	328.13
3	.589	5.17	.279	12.80	.160	13.16	.096	26.68	.152	39.35	.070	86.00	.119	117.05
4	.550	105.63	.275	191.12	.177	218.71	.160	242.18	.094	266.90	.153	254.52	.173	251.65
5	.303	[illegible]1.91	.132	69.51	.106	87.02	.079	90.72	.063	100.85	.077	123.96	.091	130.98
6	.409	274.81	.194	283.44	.129	314.46	.141	321.19	.111	2.07	.088	359.93	.063	15.93
7	.101	304.14	.020	348.43	.017	160.28	.033	152.41	.013	289.73	.052	137.93	.054	157.13
8	.062	123.25	.046	133.04	.038	157.57	.045	184.29	.024	212.88	.026	209.53	.046	137.43
9	.042	314.40	.026	309.03	.033	320.71	.040	338.75	.024	7.47	.017	293.80	.042	43.51
10	.027	39.52	.009	93.21	.004	129.14	.002	27.90	.012	208.30	.006	153.40	.048	204.92

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.[illegible]61	56.56	1.281	41.66	.812	59.85
2	.034	164.40	.065	108.93	.050	321.77
3	.037	80.40	.023	91.65	.037	136.77
4	.061	256.[illegible]	.041	353.04	.041	292.53
5	.029	163.87	.018	226.25	.013	276.54
6	.056	42.17	.050	48.36	.036	57.41
7	.016	106.60	.014	120.72	.023	159.05
8	.022	256.16	.027	262.52	.015	258.41
9	.006	214.10	.017	144.89	.010	164.95
10	.009	296.53	.010	346.33	.008	342.46

N	CN-MAG	PHIN
1	2.939	339.27
2	.173	135.34
3	.092	39.14
4	.119	234.37
5	.063	99.41
6	.077	333.46
7	.018	152.31
8	.023	179.08
9	.016	345.07
10	.006	204.80

N	CM-MAG	PHIM
1	1.042	307.98
2	.062	126.68
3	.029	3.61
4	.024	191.71
5	.015	66.81
6	.022	285.83
7	.003	313.93
8	.004	136.34
9	.004	320.10
10	.001	71.62

*** STABILITY PARAMETER

****
* XI = .8215 *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.244	240.96	2.591	247.63	5.856	158.90	2.322	192.23	4.758	105.55
2	.613	191.75	.450	200.55	.563	232.14	.489	208.33	.761	183.17
3	.145	204.48	.124	170.03	.245	202.45	.212	205.20	.045	209.56
4	.244	168.02	.260	156.19	.139	150.07	.227	171.06	.383	226.27
5	.086	151.51	.113	138.49	.250	215.97	.119	153.89	.102	120.85
6	.272	198.63	.286	207.93	.334	182.15	.305	193.60	.345	196.85
7	.037	35.61	.051	67.58	.059	108.75	.053	73.25	.090	154.29
8	.046	114.50	.061	113.04	.011	32.90	.035	113.71	.022	187.62
9	.050	294.12	.031	283.79	.039	286.30	.045	309.08	.084	266.57
10	.028	272.08	.015	251.36	.016	305.85	.021	326.17	.040	301.31

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 45 ALPHA-MCL = 2.0 PDP RUN.PT 10.06
RUN 10 ALPHA-PAR = .5 Q-COMP = .32275
POINT 1 SIGMA = 0. V-REF = 199.25
COMPUTED FREQUENCY = 9.07, K = .0715

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-10.226	1.694	-4.539	-.052	-2.435	-.718	-1.193	-1.097	.506	-1.746	.732	-1.919	1.301	-2.011
2	-.408	-.017	-.351	.128	-.329	.137	-.346	.188	-.282	.377	-.483	.185	-.443	.244
3	.767	1.276	.894	1.374	.924	1.389	.915	1.428	1.017	1.472	1.077	1.602	1.098	1.581
4	-.090	.435	-.093	.499	-.076	.535	-.094	.529	-.098	.575	-.110	.613	-.086	.579
5	-.054	.168	-.074	.181	-.073	.173	-.086	.192	-.092	.217	-.100	.211	-.108	.184
6	-.356	.222	-.279	.175	-.257	.151	-.246	.137	-.261	.131	-.272	.131	-.246	.132
7	.269	.023	.258	.001	.252	-.004	.247	.008	.266	-.001	.278	-.005	.272	-.015
8	-.156	-.147	-.161	-.127	-.157	-.117	-.157	-.159	-.186	-.164	-.168	-.183	-.170	-.175
9	.051	.027	.006	.025	-.024	.022	-.025	.021	-.006	.026	-.038	.026	-.030	.020
10	.037	-.037	.031	-.001	.031	.006	.027	.002	.038	.033	.031	.015	.018	.015

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.593	-1.937	1.785	-1.945	1.762	-1.860	8.567	-3.715	6.244	-3.800	2.972	-1.893	2.404	-1.690
2	-.408	.269	-.425	.269	-.420	.263	-.402	.280	-.447	.262	-.370	.268	-.382	.247
3	1.057	1.573	1.067	1.627	1.084	1.554	1.137	1.480	1.125	1.499	1.011	1.422	.981	1.465
4	-.105	.583	-.099	.587	-.087	.572	-.015	.621	-.039	.590	-.078	.562	-.107	.561
5	-.100	.182	-.110	.175	-.077	.161	-.063	.202	-.067	.222	-.069	.188	-.078	.182
6	-.234	.138	-.251	.157	-.245	.173	-.210	.127	-.232	.116	-.220	.149	-.241	.140
7	.271	-.006	.295	-.008	.273	-.021	.159	-.061	.198	-.027	.217	-.020	.225	.012
8	-.164	-.184	-.179	-.196	-.162	-.190	-.223	-.136	-.196	-.141	-.176	-.154	-.146	-.188
9	-.031	.020	-.032	.011	-.029	.012	-.084	-.017	-.056	.003	-.035	.007	-.026	.009
10	.022	.011	.018	.007	.025	.014	.007	.066	.024	.042	.010	.025	.010	.021

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.639	-1.433	2.103	-1.630	1.395	-1.200	1.808	-1.530	1.680	-1.518	1.704	-1.381
2	-.329	.233	-.437	.277	-.213	.303	-.485	.214	-.441	.224	-.444	.244
3	.914	1.355	1.098	1.661	.972	1.485	1.059	1.619	.989	1.487	1.061	1.633
4	-.084	.530	-.119	.640	-.088	.577	-.119	.636	-.106	.558	-.077	.577
5	-.060	.173	-.081	.202	-.080	.150	-.071	.198	-.056	.158	-.079	.146
6	-.219	.155	-.266	.193	-.271	.182	-.253	.188	-.236	.156	-.241	.200
7	.239	-.016	.288	-.004	.302	.008	.289	-.010	.250	-.004	.277	-.001
8	-.154	-.160	-.169	-.218	-.184	-.197	-.167	-.217	-.159	-.213	-.160	-.203
9	-.021	.009	-.029	.003	.004	-.007	-.026	.029	-.027	.004	-.035	.015
10	.008	.014	.015	.018	.005	.006	.012	.009	.013	.013	.019	.009

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 45 ALPHA-MCL = 2.0 PDP RUN.PT 10.06
RUN 10 ALPHA-BAR = .5 Q-COMP = .32275
POINT 1 SIGMA = 0. V-REF = 199.25
COMPUTED FREQUENCY = 9.07, K = .0715

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	10.365	170.59	4.539	180.66	2.539	196.43	1.620	222.60	1.817	286.17	2.072	292.18	2.395	302.91
2	.400	162.34	.374	159.97	.357	157.36	.393	151.50	.470	126.84	.518	159.02	.505	151.15
3	1.485	59.00	1.639	56.94	1.668	56.35	1.696	57.33	1.789	55.34	1.931	56.10	1.925	55.22
4	.444	101.75	.506	99.50	.540	98.14	.537	100.11	.583	99.63	.623	100.21	.586	98.43
5	.177	107.83	.196	112.31	.188	112.96	.210	114.08	.235	112.92	.233	115.47	.213	120.36
6	.420	148.02	.329	147.93	.298	149.63	.281	150.87	.292	153.25	.301	154.33	.279	151.68
7	.270	5.00	.258	.20	.252	359.20	.247	1.86	.266	359.77	.278	359.00	.272	356.79
8	.214	223.30	.205	218.33	.195	216.73	.224	225.44	.248	221.39	.249	227.39	.244	225.87
9	.067	23.67	.026	76.24	.033	137.62	.033	139.68	.026	102.82	.047	144.07	.036	146.89
10	.053	315.16	.031	358.33	.031	11.16	.027	4.77	.050	40.44	.034	25.87	.024	38.65

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.508	309.44	2.640	312.54	2.562	313.45	9.338	336.55	7.309	328.68	3.524	327.51	2.938	324.90
2	.489	146.61	.503	147.66	.496	147.89	.490	145.19	.518	149.56	.456	144.09	.455	147.10
3	1.895	56.10	1.946	56.74	1.895	55.11	1.867	52.46	1.674	53.11	1.745	54.57	1.763	56.21
4	.593	100.24	.596	99.53	.579	98.62	.621	91.42	.591	93.75	.568	97.90	.571	100.84
5	.207	118.79	.207	122.21	.178	115.72	.212	107.45	.232	106.78	.200	110.09	.198	113.07
6	.272	149.48	.297	147.97	.301	144.83	.245	148.94	.260	153.37	.266	146.02	.278	149.91
7	.273	358.72	.295	358.36	.274	355.63	.170	338.99	.200	352.13	.218	354.82	.225	2.99
8	.247	228.27	.265	227.65	.240	229.47	.261	211.45	.241	215.80	.234	221.26	.238	232.23
9	.037	147.30	.034	161.15	.031	157.97	.086	191.63	.056	176.60	.036	168.95	.027	159.75
10	.024	26.94	.020	20.46	.029	29.77	.066	84.15	.048	60.34	.027	68.80	.023	64.22

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.331	322.08	2.661	322.22	1.840	319.30	2.369	319.76	2.265	317.90	2.193	320.99
2	.403	144.69	.513	147.27	.371	125.08	.530	156.23	.494	153.09	.507	151.16
3	1.634	55.99	1.991	56.53	1.775	56.78	1.935	56.80	1.786	56.35	1.947	56.98
4	.537	98.97	.651	100.53	.584	98.67	.547	100.59	.568	100.80	.582	97.60
5	.183	109.15	.218	111.91	.170	117.92	.210	109.62	.167	109.71	.166	118.48
6	.268	144.73	.328	144.04	.327	146.13	.316	143.37	.283	146.60	.313	140.29
7	.240	356.13	.288	359.30	.302	1.60	.289	357.92	.250	359.14	.277	359.70
8	.229	224.43	.289	229.18	.270	226.98	.274	232.39	.265	233.21	.258	231.61
9	.022	157.28	.029	173.27	.008	301.50	.039	131.70	.027	170.82	.038	156.98
10	.016	61.91	.024	50.19	.008	49.15	.015	35.08	.019	46.07	.021	25.13

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 45 ALPHA-MCL = 2.0 PDP RUN.PT 10.06
RUN 10 ALPHA-BAR = .5 Q-COMP = .32275
POINT 1 SIGMA = 0. V-REF = 199.25
COMPUTED FREQUENCY = 9.07, K = .0715

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	13.793	-5.410	10.783	-3.747	5.408	-1.175	3.597	-.593	1.333	.313	1.321	.289	.094	.811
2	.006	.296	-.095	.134	-.041	.130	-.036	.059	-.046	-.144	.052	.092	.230	.060
3	.371	.254	.230	.125	.087	.033	.065	.038	-.103	-.117	.021	.058	-.126	-.097
4	.075	.186	.045	.091	-.002	.028	-.013	.032	.014	-.045	-.039	.027	-.002	-.002
5	-.009	.034	.007	.041	.004	.015	.008	-.009	.032	-.044	.019	-.009	.028	-.034
6	.146	-.096	.047	-.058	.037	-.002	.005	.003	.042	.023	.016	.062	-.025	.050
7	-.110	-.084	-.060	-.028	-.035	-.016	-.022	.004	-.027	-.015	.010	.001	.030	.024
8	-.057	.010	-.034	-.014	-.019	-.037	.011	-.029	.023	.004	-.020	-.035	-.014	-.022
9	-.145	-.044	-.062	-.022	-.011	-.015	-.001	-.012	-.015	-.017	.009	-.024	.035	-.027
10	-.031	.103	-.007	.043	-.021	.019	-.017	.018	-.031	-.018	-.016	.003	-.013	-.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.215	.407	-.104	.427	-.058	.480
2	-.077	-.055	-.015	-.046	-.024	-.019
3	.003	.046	-.078	-.141	-.023	.078
4	-.013	.052	-.008	-.030	.010	.005
5	.029	.016	.054	-.018	-.002	-.014
6	-.019	.050	.015	-.001	.005	.027
7	.017	-.004	-.044	.005	.004	.017
8	-.003	-.033	.020	-.017	.002	-.013
9	.005	.009	.005	-.007	-.006	.003
10	-.009	-.002	-.005	.007	-.006	-.005

N	CNREAL	CNIMAG
1	2.697	-.327
2	.003	.030
3	.011	.007
4	.003	.020
5	.018	-.008
6	.015	.018
7	-.013	-.003
8	-.066	-.020
9	-.066	-.014
10	-.015	.007

N	CMREAL	CMIMAG
1	.917	-.304
2	-.007	.014
3	.021	.007
4	.002	.006
5	-.001	.003
6	.006	-.007
7	-.006	-.004
8	-.002	-.000
9	-.005	-.002
10	-.001	.004

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.734	-1.945	.958	-2.538	-4.727	-.663	-.572	-1.527	-3.337	-.507
2	-.496	.304	-.561	.251	-.460	.118	-.432	.284	-.515	-.042
3	1.370	2.056	1.410	2.192	1.274	1.846	1.186	1.791	.612	1.759
4	-.129	.785	.022	.651	-.109	.796	-.095	.715	-.202	.561
5	-.110	.222	-.044	.275	-.140	.294	-.109	.263	-.050	.153
6	-.375	.176	-.322	.224	-.288	.226	-.310	.172	-.328	.215
7	.319	-.334	.393	-.007	.334	.018	.326	.023	.275	.114
8	-.260	-.152	-.166	-.183	-.240	-.182	-.171	-.191	-.080	-.255
9	-.027	.336	-.097	.059	-.037	.003	-.025	.021	-.080	.004
10	.024	.006	.076	-.008	.012	.005	.063	.013	.003	.078

*** STABILITY PARAMETER

* XI = .3039 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 45 ALPHA-MCL = 2.0 PDP RUN.PT 10.06
RUN 10 ALPHA-BAR = .5 Q-COMP = .32275
POINT 1 SIGMA = 0. V-REF = 199.25
COMPUTED FREQUENCY = 9.07, K = .0715

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	19.556	343.94	11.416	340.84	5.534	347.74	3.645	350.64	1.369	13.22	1.352	12.34	.816	83.41
2	.296	88.92	.165	125.35	.137	107.27	.069	121.35	.151	252.12	.106	60.58	.237	14.57
3	.423	28.85	.262	28.44	.093	20.82	.075	29.92	.156	228.55	.062	70.16	.159	217.51
4	.200	68.00	.101	63.78	.028	93.30	.035	112.17	.047	287.07	.029	107.38	.003	217.60
5	.035	105.51	.042	79.82	.016	73.68	.012	310.62	.054	305.60	.021	335.62	.044	309.93
6	.175	326.72	.075	308.65	.037	356.74	.006	27.85	.048	29.36	.063	84.81	.056	117.17
7	.139	217.48	.066	205.30	.039	204.55	.022	170.30	.031	209.66	.010	7.81	.039	38.03
8	.068	171.13	.037	201.59	.042	242.99	.031	291.47	.023	9.25	.041	240.16	.027	237.16
9	.152	196.91	.066	199.42	.019	234.35	.012	267.35	.023	229.45	.026	290.61	.044	322.19
10	.107	106.57	.043	99.81	.029	137.41	.025	132.56	.036	210.99	.016	168.30	.016	213.44

X =	.774		.860		.910							
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	N	CN-MAG	PHIN	N	CM-MAG	PHIM
1	.460	62.19	.440	103.75	.483	96.85	1	2.717	353.08	1	.966	341.66
2	.095	215.62	.048	251.68	.031	218.14	2	.030	83.25	2	.016	117.46
3	.046	86.80	.161	241.00	.082	106.23	3	.014	32.42	3	.022	19.13
4	.054	104.42	.031	255.26	.011	26.75	4	.021	81.29	4	.006	66.47
5	.033	29.09	.057	341.81	.015	262.28	5	.019	336.54	5	.003	118.66
6	.054	110.62	.015	354.61	.027	79.92	6	.024	51.59	6	.009	313.63
7	.018	345.73	.045	174.02	.020	77.65	7	.013	193.86	7	.007	212.54
8	.033	265.06	.026	319.53	.013	276.99	8	.021	254.77	8	.002	182.05
9	.011	62.89	.008	307.37	.007	152.77	9	.015	245.86	9	.006	201.48
10	.010	194.25	.009	129.81	.008	222.50	10	.017	156.10	10	.004	109.72

*** WALL PRESSURES, PER RADIAN ***

*** STABILITY PARAMETER

XI = .3039

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.069	289.90	2.712	290.68	4.773	187.98	1.631	249.47	3.375	188.64
2	.582	148.50	.615	155.89	.474	165.63	.517	146.67	.517	184.61
3	2.471	56.33	2.606	57.24	2.243	55.39	2.148	56.50	1.862	70.81
4	.795	99.35	.651	88.07	.803	97.79	.721	97.58	.596	109.84
5	.248	116.42	.279	99.16	.325	115.43	.284	112.48	.161	108.12
6	.414	154.85	.392	145.11	.366	141.90	.354	151.00	.392	146.72
7	.321	353.95	.393	358.96	.335	3.15	.327	4.09	.297	22.56
8	.301	210.28	.247	227.81	.301	217.12	.256	228.22	.267	252.51
9	.046	125.63	.113	148.46	.037	174.68	.032	139.01	.080	176.82
10	.025	14.58	.077	353.92	.013	21.87	.065	11.46	.078	88.07

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 47 ALPHA-MCL = 2.0 PDP RUN.PT 10.08
RUN 10 ALPHA-BAR = .5 Q-COMP = .32663
POINT 3 SIGMA = 0. V-REF = 200.47
COMPUTED FREQUENCY = 15.44, K = .1210

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-9.613	2.310	-4.284	1.046	-2.292	.514	-1.264	.214	.284	-.268	.439	-.196	1.016	-.199
2	.402	-.002	.492	-.048	.537	-.049	.524	-.055	.670	.037	.521	-.109	.591	-.100
3	.060	-.062	.159	-.021	.192	-.007	.219	.010	.299	-.043	.294	.020	.309	.046
4	.340	-.075	.262	-.081	.256	-.078	.239	-.081	.262	-.077	.236	-.102	.215	-.107
5	-.077	-.042	-.030	.048	-.024	.076	-.041	.111	-.082	.145	-.088	.156	-.095	.157
6	.020	-.021	.024	-.021	.017	-.033	.028	-.033	.013	-.027	.041	-.031	.028	-.031
7	-.031	.144	-.057	.117	-.068	.091	-.085	.077	-.101	.052	-.103	.051	-.093	.041
8	.008	.046	-.011	.022	-.012	.013	-.007	.008	-.011	-.004	-.008	.002	-.009	-.002
9	-.053	.038	-.033	.037	-.037	.041	-.031	.036	-.021	.030	-.032	.039	-.023	.041
10	-.037	.025	-.032	.018	-.033	.013	-.033	.014	-.033	.004	-.032	.005	-.025	-.001

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.230	-.094	1.384	.005	1.303	.063	7.644	-1.473	5.290	-1.770	2.564	.046	1.976	.314
2	.605	-.077	.642	-.061	.636	-.078	.570	-.259	.509	-.217	.553	-.128	.573	-.100
3	.285	.059	.295	.060	.279	.046	.347	.044	.356	.014	.282	.019	.261	.042
4	.209	-.105	.232	-.130	.208	-.132	.148	-.177	.205	-.125	.215	-.125	.223	-.096
5	-.114	.149	-.141	.158	-.117	.154	.001	.242	-.009	.191	-.050	.174	-.088	.155
6	.032	-.025	.029	-.023	.027	-.019	.050	-.015	.020	-.034	.026	-.009	.024	.001
7	-.091	.037	-.084	.037	-.073	.050	-.119	-.025	-.097	.017	-.085	.015	-.086	-.000
8	-.012	-.006	-.008	-.008	-.010	-.010	.003	-.010	-.003	-.011	-.007	-.000	-.001	-.007
9	-.019	.042	-.023	.043	-.019	.043	.005	-.004	-.010	.018	-.013	.021	-.021	.022
10	-.029	-.001	-.027	-.003	-.027	.000	-.008	-.013	-.010	-.004	-.012	.001	-.016	.002

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.413	.410	1.555	.627	.872	.835	1.276	.594	1.165	.417	1.171	.621
2	.533	-.087	.655	-.078	.709	-.016	.622	-.086	.562	-.080	.634	-.055
3	.242	.028	.288	.039	.237	.100	.278	.033	.241	.039	.250	.032
4	.217	-.126	.261	-.134	.267	-.176	.233	-.164	.200	-.134	.202	-.131
5	-.074	.157	-.106	.187	-.142	.188	-.125	.177	-.110	.140	-.136	.159
6	.016	-.009	.015	.004	.034	-.005	.006	.008	.011	.012	.006	.016
7	-.067	.028	-.083	.033	-.062	.026	-.077	.050	-.069	.041	-.075	.041
8	-.005	-.007	.008	-.006	-.002	.001	-.002	-.012	.001	-.007	.006	-.008
9	-.015	.024	-.019	.032	-.014	.025	-.021	.036	-.021	.033	-.020	.038
10	-.018	.002	-.027	.009	-.023	-.000	-.024	.014	-.024	.009	-.031	.012

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 47 ALPHA-MCL = 2.0 PDP RUN.PT 10.08
RUN 10 ALPHA-BAR = .5 Q-COMP = .32663
POINT 3 SIGMA = 0. V-REF = 200.47
COMPUTED FREQUENCY = 15.44, K = .1210
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	9.886	166.49	4.410	166.29	2.349	167.35	1.282	170.40	.391	316.66	.481	335.89	1.035	348.91
2	.402	359.78	.494	354.48	.539	354.76	.527	354.05	.671	3.13	.532	348.22	.599	350.39
3	.086	313.85	.160	352.52	.192	357.83	.219	2.75	.302	351.74	.295	3.97	.312	8.45
4	.348	347.58	.275	342.84	.268	343.10	.253	341.23	.273	343.67	.257	336.67	.240	333.46
5	.086	208.28	.057	121.97	.080	107.86	.118	110.06	.166	119.63	.179	119.34	.183	121.28
6	.029	314.36	.032	318.93	.037	298.05	.043	309.94	.030	296.48	.052	322.73	.042	312.58
7	.148	102.27	.130	115.99	.114	126.55	.115	138.04	.114	152.94	.115	153.92	.102	156.16
8	.047	80.45	.025	116.84	.018	133.73	.011	130.55	.012	199.41	.008	164.12	.010	194.16
9	.065	144.36	.049	132.17	.055	132.43	.047	130.69	.036	125.03	.051	129.51	.047	119.14
10	.045	145.60	.037	150.12	.035	158.65	.036	157.01	.034	174.00	.032	170.23	.025	182.63

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.233	355.65	1.384	.20	1.305	2.78	7.785	349.09	5.578	341.50	2.505	1.04	2.001	9.03
2	.610	352.76	.645	354.62	.641	353.02	.626	335.57	.553	336.94	.567	346.92	.582	350.09
3	.291	11.67	.301	11.55	.282	9.36	.350	7.15	.356	2.18	.283	3.95	.265	9.08
4	.233	333.35	.266	330.67	.246	327.71	.230	309.94	.240	328.62	.249	329.87	.242	336.77
5	.187	127.47	.211	131.75	.193	127.36	.242	89.79	.191	92.56	.181	106.14	.179	119.46
6	.041	322.01	.037	321.46	.033	324.81	.052	343.39	.039	301.28	.027	340.26	.024	2.40
7	.098	157.71	.092	156.10	.088	145.25	.121	192.11	.098	170.17	.086	170.05	.086	180.08
8	.014	206.05	.011	227.92	.014	222.65	.010	284.53	.011	256.11	.007	182.70	.007	258.91
9	.046	114.81	.049	118.18	.048	114.05	.007	318.18	.020	120.07	.025	120.72	.030	133.48
10	.029	182.83	.027	186.74	.028	179.45	.015	239.41	.011	203.23	.012	174.93	.016	173.95

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.471	16.19	1.677	21.96	1.207	43.79	1.408	24.97	1.237	19.71	1.325	27.95
2	.540	350.71	.659	353.23	.709	358.68	.628	352.09	.568	351.95	.636	355.06
3	.244	6.68	.290	7.67	.257	22.94	.280	6.86	.244	9.17	.252	7.41
4	.251	329.83	.294	332.77	.319	326.60	.285	324.88	.241	326.15	.241	327.07
5	.174	115.13	.215	119.69	.236	127.17	.217	125.30	.179	128.19	.209	130.57
6	.019	332.39	.015	15.77	.034	352.27	.010	54.13	.016	48.03	.017	70.53
7	.073	157.01	.089	158.17	.068	157.10	.092	147.00	.080	148.88	.085	151.53
8	.008	234.20	.010	323.72	.002	145.17	.012	261.88	.007	279.76	.010	307.28
9	.028	121.48	.037	120.61	.029	119.06	.042	120.87	.039	121.88	.043	117.39
10	.018	174.16	.025	159.32	.023	180.08	.028	149.50	.026	158.86	.033	159.82

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 47 ALPHA-MCL = 2.0 PDP RUN.PT 10.08
RUN 10 ALPHA-BAR = .5 Q-COMP = .32663
POINT 3 SIGMA = 0. V-REF = 200.47
COMPUTED FREQUENCY = 15.44, K = .1210

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	17.257	-3.783	9.574	-2.815	4.856	-.468	3.240	.100	1.129	.678	1.116	.823	-.144	1.035
2	.167	-.257	.018	-.169	.016	-.079	.049	-.046	-.137	-.124	.134	.031	.118	.084
3	.287	.106	.197	.034	.090	.027	.043	.031	-.057	.072	-.006	.018	-.072	.054
4	-.192	-.102	-.057	-.044	-.041	-.047	-.017	-.014	-.045	-.049	.026	-.033	.052	-.069
5	.078	.284	.022	.142	-.026	.098	-.047	.044	.009	.012	-.019	.031	-.047	.031
6	.030	.006	-.004	-.013	.008	.024	-.004	.034	.003	.018	-.027	.036	.006	.026
7	-.087	-.170	-.040	-.100	-.017	-.076	-.000	-.077	.034	-.023	.021	-.017	.031	-.015
8	-.005	-.056	.008	-.033	.006	-.013	.006	-.015	.007	-.003	.016	-.008	.007	.004
9	.057	-.042	.023	-.019	.025	-.020	.010	-.014	.006	-.006	.014	-.007	.009	-.015
10	.029	-.039	.022	-.023	.021	-.012	.017	-.012	.015	-.002	.008	.003	.002	.001

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.046	.688	-.219	.413	-.133	.558
2	.016	-.009	-.080	-.019	-.002	.023
3	-.007	-.025	-.053	-.021	-.029	-.013
4	.025	-.059	-.032	-.004	-.006	.001
5	-.012	.029	.030	-.017	-.019	.005
6	-.027	.033	-.018	.035	-.021	.035
7	.014	.013	.015	.004	-.002	-.010
8	.011	-.006	.009	.002	.016	.002
9	-.002	-.006	.002	-.010	-.000	-.006
10	.005	.016	.007	.013	-.004	.011

N	CNREAL	CNIMAG
1	2.352	.129
2	.026	-.035
3	.013	.026
4	-.012	-.039
5	-.013	.046
6	-.007	.025
7	.006	-.036
8	.009	-.009
9	.011	-.012
10	.010	-.002

N	CMREAL	CMIMAG
1	.839	-.218
2	.001	-.017
3	.018	.006
4	-.008	-.002
5	.001	.012
6	.002	-.002
7	-.004	-.011
8	-.001	-.003
9	.003	-.001
10	.002	-.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.329	.232	.284	.003	-4.649	.865	-.764	.191	-3.652	.797
2	.753	-.108	.836	-.162	.643	-.196	.686	-.063	.617	-.132
3	.281	-.006	.250	.013	.301	-.075	.252	-.002	.159	-.040
4	.309	-.155	.356	-.118	.393	-.132	.329	-.121	.377	-.136
5	-.026	.218	-.057	.146	-.035	.076	-.051	.116	-.018	.095
6	.019	-.019	.021	.055	.024	-.065	.054	-.036	.059	-.001
7	-.096	.078	-.144	.030	-.101	.155	-.124	.064	-.162	.139
8	-.020	-.002	-.094	-.060	.003	.064	-.023	.026	-.031	-.021
9	-.016	.027	-.068	.014	-.037	.052	-.040	.029	-.096	.036
10	-.025	.021	-.028	.026	-.028	.008	-.034	.011	.005	.016

*** STABILITY PARAMETER

XI = .2175

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 47 ALPHA-MCL = 2.0 PDP RUN.PT 10.08
RUN 10 ALPHA-BAR = .5 Q-COMP = .32663
POINT 3 SIGMA = 0. V-REF = 200.47
COMPUTED FREQUENCY = 15.44, K = .1210

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	17.667	347.64	9.979	343.61	4.879	354.49	3.242	1.77	1.317	30.99	1.387	36.42	1.045	97.95
2	.307	303.03	.170	275.99	.081	281.23	.067	317.12	.185	222.15	.137	13.03	.145	35.23
3	.306	20.23	.200	9.89	.094	16.51	.053	36.23	.091	128.24	.019	109.36	.090	143.03
4	.218	207.85	.072	217.38	.063	228.52	.022	220.57	.067	227.54	.042	307.97	.086	307.12
5	.294	74.62	.144	81.41	.101	104.79	.065	136.78	.015	55.54	.036	121.43	.057	146.54
6	.030	11.26	.013	253.79	.025	70.74	.034	96.93	.019	80.70	.045	126.90	.027	77.65
7	.191	242.82	.108	248.16	.078	257.14	.077	269.65	.042	325.82	.027	319.75	.034	334.29
8	.056	264.66	.034	284.18	.015	292.76	.016	291.29	.007	338.42	.018	332.97	.008	27.12
9	.071	323.79	.030	320.50	.031	321.60	.017	305.89	.009	316.54	.015	331.14	.018	299.28
10	.049	307.13	.031	313.79	.024	330.42	.021	324.22	.015	353.80	.009	21.84	.003	24.46

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.689	86.13	.467	117.92	.573	103.38
2	.019	330.04	.082	183.35	.023	95.83
3	.027	253.80	.057	201.73	.032	204.87
4	.069	292.57	.032	187.20	.006	172.57
5	.031	111.97	.035	330.29	.019	164.45
6	.043	128.80	.040	117.45	.041	121.41
7	.019	81.88	.016	15.20	.010	257.63
8	.012	330.68	.009	10.86	.016	6.56
9	.006	251.77	.010	283.87	.006	267.92
10	.016	72.69	.013	77.57	.012	109.25

N	CN-MAG	PHIN
1	2.356	3.15
2	.044	305.85
3	.029	63.47
4	.040	252.59
5	.048	105.86
6	.026	105.98
7	.037	279.53
8	.012	315.37
9	.016	312.63
10	.011	349.98

N	CM-MAG	PHIM
1	.867	345.46
2	.017	273.93
3	.019	18.78
4	.009	196.65
5	.012	84.42
6	.003	324.35
7	.011	249.69
8	.003	256.83
9	.003	330.20
10	.004	307.42

*** STABILITY PARAMETER

XI = .2175

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.403	35.18	.284	.64	4.729	169.46	.787	165.99	3.738	167.69
2	.761	351.83	.851	349.05	.672	343.09	.688	354.78	.631	347.90
3	.281	358.77	.250	3.01	.310	346.04	.252	359.65	.169	345.85
4	.346	333.38	.375	341.62	.415	341.49	.350	339.75	.401	340.12
5	.220	96.80	.157	111.42	.084	114.43	.127	113.78	.097	100.95
6	.027	315.75	.059	68.94	.069	289.96	.065	326.11	.059	359.08
7	.124	140.65	.147	168.26	.185	123.24	.140	152.85	.213	139.36
8	.020	186.61	.112	212.58	.064	87.57	.035	130.95	.037	213.92
9	.032	120.08	.070	168.14	.064	126.00	.050	144.68	.102	159.38
10	.033	140.79	.036	136.44	.029	164.79	.036	161.35	.017	73.81

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 49 ALPHA-PCL = 2.0 PDP RUN.PT 10.10
RUN 10 ALPHA-PAR = .5 Q-COMP = .32402
POINT 5 SIGMA = 0. V-REF = 199.65
COMPUTED FREQUENCY = 19.10, K = .1503

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-9.834	2.070	-4.556	.840	-2.607	.285	-1.534	-.047	-.081	-.550	.090	-.442	.495	-.334
2	.311	.295	.296	.395	.246	.433	.258	.450	.333	.599	.164	.446	.184	.457
3	-.283	.257	-.176	.205	-.151	.161	-.141	.177	-.121	.098	-.070	.168	-.060	.181
4	.072	-.039	-.029	-.053	-.059	-.063	-.082	-.066	-.065	-.074	-.090	-.094	-.076	-.106
5	.091	-.037	.067	-.035	.053	-.019	.052	-.009	.053	.003	.028	.002	.028	-.001
6	-.012	-.001	-.021	-.014	-.021	-.023	-.020	-.019	-.027	-.019	-.015	-.015	-.018	-.017
7	.019	.042	.021	-.009	.020	-.009	.013	-.012	-.004	.009	.007	-.031	.007	-.025
8	.033	.020	.025	.028	.014	.033	.009	.037	.004	.050	.005	.041	.000	.037
9	-.012	.030	-.005	.018	.001	.019	.005	.022	.005	.021	.006	.021	.007	.025
10	-.002	-.031	.004	-.016	.004	-.011	.012	-.007	.015	-.007	.011	-.006	-.000	-.007

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.901	-.227	1.038	-.111	.934	-.020	7.264	-1.646	4.741	-1.949	2.223	.003	1.611	.303
2	.203	.468	.219	.465	.227	.444	.149	.456	.176	.494	.236	.467	.222	.463
3	-.050	.193	-.067	.201	-.053	.195	.031	.047	-.038	.098	-.055	.132	-.079	.135
4	-.062	-.118	-.065	-.123	-.059	-.116	-.282	-.091	-.199	-.087	-.137	-.114	-.086	-.128
5	.029	-.003	.024	-.005	.032	-.009	.030	.049	.042	.013	.037	.038	.025	.036
6	-.020	-.020	-.027	-.019	-.014	-.013	-.053	-.067	-.037	-.044	-.014	-.048	-.006	-.042
7	.007	-.019	-.002	-.020	.003	-.022	.006	.024	.011	.012	.009	.037	-.009	.027
8	-.004	.033	-.011	.035	-.009	.031	-.010	.029	.000	.021	.000	.010	.004	.008
9	.007	.028	.011	.034	.007	.024	.027	.043	.014	.041	.015	.040	.002	.045
10	-.011	-.008	-.009	-.004	-.013	-.005	-.018	.009	-.012	-.002	-.024	-.007	-.015	-.017

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.066	.430	1.106	.683	.491	.883	.800	.658	.738	.382	.728	.655
2	.226	.410	.261	.502	.368	.432	.202	.437	.226	.391	.218	.432
3	-.072	.147	-.095	.180	-.060	.249	-.090	.162	-.087	.166	-.079	.192
4	-.081	-.111	-.071	-.140	-.018	-.169	-.068	-.135	-.047	-.101	-.042	-.117
5	.020	.022	.027	.026	.022	.002	.027	.010	.026	.015	.027	.000
6	-.010	-.022	-.001	-.024	-.031	-.028	-.006	-.027	-.004	.002	-.010	-.006
7	.002	.016	-.008	.028	-.006	.017	.001	.012	-.005	-.007	-.008	-.009
8	.005	.016	.004	.020	.003	.016	.008	.025	.002	.026	.005	.026
9	.003	.026	.007	.034	.002	.021	.002	.021	-.001	.017	-.001	.016
10	-.015	-.010	-.018	-.017	-.020	-.007	-.020	-.011	-.010	-.013	-.010	-.014

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 49 ALPHA-MCL = 2.0 PDP RUN.PT 10.10
RUN 10 ALPHA-BAR = .5 Q-COMP = .32402
POINT 5 SIGMA = 0. V-REF = 199.65
COMPUTED FREQUENCY = 19.10, K = .1503
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	10.050	168.12	4.633	169.56	2.623	173.77	1.535	181.77	.556	261.61	.451	281.46	.597	325.97
2	.428	93.49	.494	53.17	.498	60.39	.519	60.12	.685	60.95	.475	69.73	.492	68.08
3	.382	137.74	.270	130.57	.221	133.20	.226	128.62	.156	141.10	.183	112.70	.190	108.48
4	.082	331.45	.061	241.20	.086	226.62	.105	218.79	.098	228.74	.130	226.39	.130	234.46
5	.098	337.59	.076	332.31	.056	340.63	.053	350.13	.054	3.52	.028	3.89	.028	358.51
6	.012	183.19	.025	213.57	.031	227.66	.028	224.12	.033	215.33	.021	223.29	.025	223.92
7	.046	65.12	.023	335.77	.022	336.07	.018	318.55	.010	114.42	.032	282.30	.026	285.23
8	.043	27.79	.038	48.83	.036	67.67	.039	76.52	.051	85.22	.041	82.90	.037	89.32
9	.032	112.52	.019	105.54	.019	87.07	.023	76.75	.022	75.47	.022	73.36	.026	74.81
10	.031	265.54	.016	282.61	.012	289.25	.014	327.65	.016	334.37	.012	332.58	.007	268.89

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.929	345.85	1.044	353.88	.935	358.76	7.448	347.23	5.126	337.66	2.223	.08	1.640	10.64
2	.510	66.50	.514	64.77	.499	62.91	.480	71.92	.525	70.42	.523	63.20	.513	64.38
3	.199	104.61	.212	108.57	.202	105.35	.056	56.32	.105	111.22	.143	112.57	.157	120.34
4	.133	242.37	.139	242.04	.130	243.19	.296	197.95	.217	203.59	.178	219.72	.154	235.90
5	.029	353.38	.024	349.26	.033	344.87	.057	58.56	.044	16.64	.053	45.59	.044	54.95
6	.028	224.40	.033	215.58	.019	221.02	.085	231.42	.057	230.11	.050	253.54	.043	261.40
7	.020	289.90	.020	264.15	.022	277.89	.024	75.94	.016	46.52	.038	76.63	.028	109.47
8	.034	97.17	.036	106.89	.033	105.68	.031	108.45	.021	88.64	.010	89.80	.009	62.05
9	.029	75.92	.035	71.64	.026	73.38	.051	58.02	.044	70.86	.043	69.65	.045	87.21
10	.014	215.71	.010	202.75	.014	201.92	.020	153.27	.012	187.32	.025	196.75	.023	228.33

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.150	21.98	1.300	31.72	1.011	60.93	1.036	39.46	.631	27.39	.979	41.99
2	.468	61.15	.566	62.59	.567	49.58	.482	65.19	.452	59.97	.484	63.21
3	.164	116.19	.203	117.95	.256	103.54	.186	119.03	.187	117.75	.208	112.48
4	.138	234.04	.157	243.22	.170	264.04	.151	243.12	.111	245.16	.124	250.02
5	.029	48.24	.037	43.93	.022	5.60	.028	19.61	.030	29.17	.027	.78
6	.024	244.98	.024	268.69	.042	221.61	.028	257.72	.005	149.29	.012	209.16
7	.016	82.49	.029	105.25	.018	109.13	.012	87.27	.009	234.36	.012	229.83
8	.017	72.30	.020	77.36	.016	60.50	.026	71.40	.027	84.92	.026	79.31
9	.026	84.30	.034	86.71	.021	84.45	.021	85.13	.017	91.98	.016	94.87
10	.018	214.12	.024	223.04	.021	200.36	.023	207.71	.016	234.00	.017	236.18

ORIGINAL PAGE IS
OF P... ...ALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILF .49 ALPHA-MCL = 2.0 PDP RUN.PT 10.10
RUN 10 ALPHA-BAR = .5 Q-COMP = .32402
POINT 5 SIGMA = 0. V-REF = 199.65
COMPUTED FRECUENCY = 19.10, K = .1503

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	17.098	-3.715	9.298	-2.788	4.830	-.281	3.146	.350	1.147	.980	1.016	1.125	-.004	1.218
2	-.152	.161	-.120	.099	-.011	.033	-.036	.013	-.107	-.189	.096	.057	.184	-.025
3	.314	-.210	.138	-.108	.097	-.029	.062	-.041	.049	.049	-.025	.011	.000	.069
4	-.354	-.052	-.169	-.033	-.077	-.051	-.005	-.062	-.016	-.038	.019	-.046	.058	-.063
5	-.061	.366	-.025	.048	-.016	.057	-.027	.045	-.034	.019	-.001	.024	-.006	.003
6	-.042	-.066	-.015	-.030	.007	-.025	.014	-.023	.017	-.003	.015	-.009	-.013	-.011
7	-.013	-.018	-.010	.021	-.012	.046	-.023	.038	.006	.007	-.018	.059	-.013	.042
8	-.048	.009	-.024	-.007	-.014	-.024	-.005	-.029	.001	-.034	-.001	-.021	.002	-.021
9	.039	.013	.019	.023	.014	.021	-.003	.023	-.003	.005	-.006	.013	-.005	-.004
10	-.016	.040	-.016	.014	-.028	.004	-.027	-.010	-.030	-.003	-.028	-.011	-.020	-.001

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.101	.885	-.300	.494	-.207	.675
2	-.001	-.031	.007	-.074	-.009	-.012
3	-.040	-.030	-.020	-.035	-.026	-.002
4	-.007	-.017	.018	.072	.016	-.000
5	-.002	.013	.002	.019	-.005	.009
6	.014	-.008	.023	.022	.004	.007
7	-.036	.031	-.003	.013	-.011	.013
8	.013	-.008	.013	-.008	.014	-.006
9	-.005	-.007	-.012	-.016	-.009	-.009
10	-.009	-.003	-.000	-.009	.004	-.009

N	CNREAL	CNIMAG
1	2.294	.323
2	.002	-.012
3	.033	-.010
4	-.022	-.036
5	-.015	.027
6	.006	-.011
7	-.010	.029
8	-.002	-.018
9	.000	.007
10	-.019	-.002

N	CMREAL	CMIMAG
1	.831	-.214
2	-.013	.007
3	.017	-.008
4	-.016	-.004
5	-.003	.005
6	-.001	-.004
7	-.001	.001
8	-.003	-.001
9	.002	.003
10	-.002	.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.106	.054	-.173	-.206	-5.107	.577	-1.188	-.025	-4.160	.571
2	.426	.683	.412	.612	.351	.393	.305	.580	.172	.262
3	-.116	.193	-.196	.249	-.169	.199	-.146	.204	-.303	.110
4	-.178	-.095	-.079	.036	-.116	-.126	-.068	-.058	-.085	-.142
5	.045	-.023	-.031	-.078	.133	.013	.081	.008	.225	.005
6	-.049	-.045	-.067	-.067	-.012	-.017	-.029	-.042	-.040	-.058
7	.019	-.000	.029	.040	.017	.003	.033	-.001	.029	.034
8	.019	.040	.011	.026	.018	.036	.009	.042	-.004	.034
9	.024	.043	.014	.055	-.016	.024	.004	.027	.005	.015
10	.014	-.005	.000	-.020	-.009	-.036	-.003	-.016	-.003	-.037

*** STABILITY PARAMETER

* XI = .2136 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	49	ALPHA-MCL =	2.0	PDP RUN.PT	10.10
RUN	10	ALPHA-BAR =	.5	Q-COMP =	.32402
POINT	5	SIGMA =	0.	V-REF =	199.65

COMPUTED FREQUENCY = 19.10, K = .1503

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE

*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	17.497	[illegible]	9.707	343.31	4.838	356.67	3.165	6.35	1.509	40.51	1.516	47.91	1.218	90.20
2	.229	135.06	.156	140.55	.035	107.65	.039	160.50	.217	240.50	.112	30.44	.185	352.14
3	.378	326.15	.175	322.02	.101	343.16	.074	326.35	.069	44.96	.027	155.49	.069	89.75
4	.357	188.42	.173	191.16	.093	213.28	.062	265.63	.041	246.75	.049	292.87	.085	312.86
5	.105	125.17	.054	117.43	.059	105.37	.052	120.78	.039	151.34	.024	92.28	.007	154.65
6	.078	237.81	.033	242.56	.026	[illegible]	.027	301.07	.017	350.65	.018	327.71	.017	218.29
7	.023	233.41	.023	115.52	.047	104.21	.045	120.64	.009	48.98	.060	103.71	.044	106.84
8	.049	168.92	.026	196.88	.027	240.06	.030	261.07	.034	271.67	.021	268.31	.021	276.03
9	.041	18.44	.030	49.84	.025	56.23	.024	97.22	.006	118.65	.013	109.01	.006	219.52
10	.043	111.60	.021	137.38	.028	172.56	.028	199.77	.030	186.05	.030	201.09	.020	181.71

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.891	96.50	.578	121.27	.706	107.04
2	.031	267.52	.074	275.30	.014	233.03
3	.050	217.32	.040	240.75	.026	185.44
4	.019	248.56	.029	49.80	.016	359.12
5	.013	99.93	.019	83.13	.010	119.77
6	.016	332.03	.031	43.69	.008	59.15
7	.032	101.32	.014	102.22	.017	130.69
8	.015	326.33	.015	327.30	.015	336.75
9	.009	234.31	.020	234.33	.012	225.93
10	.009	196.16	.009	267.02	.010	293.35

N	CN-MAG	PHIN
1	2.317	8.01
2	.013	279.01
3	.034	342.37
4	.042	239.43
5	.030	118.76
6	.013	296.45
7	.031	107.96
8	.018	264.97
9	.007	89.12
10	.019	186.60

N	CM-MAG	PHIM
1	.858	345.58
2	.015	151.25
3	.019	335.84
4	.016	195.94
5	.006	121.43
6	.004	255.83
7	.001	133.59
8	.003	200.13
9	.004	54.34
10	.003	147.62

*** STABILITY PARAMETER

* XI = -.2136 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.118	152.99	.269	230.06	5.140	173.56	1.188	181.38	4.199	172.18
2	.805	58.06	.738	56.05	.526	48.23	.655	62.30	.313	56.66
3	.225	121.10	.317	128.22	.261	130.41	.251	125.64	.322	160.08
4	.202	208.06	.087	155.52	.171	227.46	.090	220.33	.165	239.12
5	.051	332.82	.084	248.22	.134	5.75	.081	5.88	.226	1.31
6	.068	225.08	.094	225.09	.021	234.65	.051	235.83	.070	235.05
7	.019	358.90	.049	53.90	.018	10.46	.033	358.20	.044	49.16
8	.044	64.89	.026	67.35	.041	63.20	.043	77.13	.034	96.86
9	.049	60.51	.057	76.22	.029	124.17	.027	81.93	.016	69.99
10	.015	341.47	.020	270.94	.037	256.38	.016	260.27	.037	265.62

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 192 ALPHA-MCL = 2.0 PDP RUN.PT 12.02
RUN 12 ALPHA-BAR = .5 Q-COMP = .32277
POINT 1 SIGMA = 45. V-REF = 199.26
COMPUTED FREQUENCY = 9.16, K = .0722

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-12.893	-5.604	-5.948	-2.565	-3.379	-1.420	-1.005	-.757	-.406	.277	-.489	.604	-.330	1.410
2	-.155	-.039	-.206	.065	-.224	.071	-.265	.139	-.325	.204	-.096	-.015	.010	.433
3	-.722	-1.467	-.998	-1.558	-1.060	-1.578	-1.125	-1.687	-1.141	-1.691	-1.206	-1.852	-1.432	-1.442
4	-.080	.553	.069	.535	.109	.511	.160	.486	.102	.533	.146	.607	.091	.770
5	.114	-.092	.096	-.042	.102	-.003	.104	.041	.113	.017	.105	.040	.173	.025
6	-.237	.049	-.228	.124	-.242	.157	-.285	.167	-.296	.164	-.299	.189	-.322	.176
7	-.352	-.062	-.336	-.022	-.346	-.028	-.358	-.031	-.401	-.057	-.376	-.024	-.428	.047
8	.021	-.065	.028	-.093	.024	-.100	.036	-.083	.012	-.084	.013	-.093	.044	.120
9	.017	.066	.009	-.024	.012	-.043	.034	-.075	.061	-.084	.060	-.075	.128	-.076
10	.022	-.049	.018	-.046	.011	-.046	.018	-.040	.020	-.055	.003	-.063	.036	-.081

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.224	1.074	.435	.949	.570	.769	10.583	4.796	7.491	2.737	3.322	1.748	2.472	1.330
2	-.176	.102	-.190	.095	-.210	.103	-.018	-.159	-.136	-1.163	-.213	.020	-.224	.024
3	-1.206	-1.820	-1.205	-1.863	-1.209	-1.809	-1.432	-1.679	-.914	-1.662	-1.237	-1.691	-1.186	-1.744
4	.150	.567	.148	.578	.153	.558	.286	.474	.228	.568	.180	.514	.149	.534
5	.069	.037	.061	.039	.045	.010	.078	.025	.096	.063	.080	.035	.072	.040
6	-.331	.154	-.347	.167	-.336	.175	-.308	.318	-.284	.269	-.295	.209	-.313	.171
7	-.408	-.043	-.430	-.056	-.395	-.027	-.344	.135	-.362	.066	-.362	.022	-.372	-.030
8	.005	-.071	-.000	-.060	.003	-.077	.076	-.059	.038	-.088	.026	-.077	.021	-.066
9	.085	-.084	.053	-.071	.086	-.076	.070	-.126	.056	-.117	.069	-.114	.088	-.091
10	.008	-.068	.010	-.066	.010	-.071	-.035	-.042	-.018	-.027	-.002	-.052	.005	-.056

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.668	.892	1.723	.884	.937	.482	.952	.465	.423	.617	.733	.303
2	-.204	.045	-.241	.041	-.297	.168	-.215	-.012	-.244	.016	-.271	-.009
3	-1.073	-1.602	-1.275	-1.980	-1.107	-1.726	-1.218	-1.905	-1.153	-1.768	-1.141	-1.766
4	.140	.512	.177	.618	.193	.512	.170	.600	.172	.574	.178	.596
5	.064	.018	.080	.038	.021	-.020	.089	.052	.057	.018	.017	.026
6	-.294	.174	-.379	.187	-.332	.142	-.351	.165	-.331	.146	-.353	.160
7	-.356	.002	-.450	-.033	-.392	-.021	-.427	-.043	-.398	-.034	-.385	-.018
8	.016	-.066	.010	-.075	.006	-.058	.017	-.063	-.000	-.074	-.010	-.066
9	.072	-.062	.117	-.097	.105	-.088	.097	-.079	.094	-.076	.097	-.082
10	-.002	-.050	.004	-.069	.006	-.060	-.004	-.053	.006	-.065	.005	-.070

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 192 ALPHA-MCL = 2.0 PDP RUN.PT 12.02
RUN 12 ALPHA-BAR = .5 Q-COMP = .32277
POINT 1 SIGMA = 45. V-REF = 199.26
COMPUTED FREQUENCY = 9.16, K = .0722

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	14.058	203.49	6.478	203.33	3.665	202.79	2.143	200.68	.492	145.67	.777	129.01	1.448	103.16
2	.160	194.29	.216	162.51	.235	162.45	.299	152.40	.383	147.93	.097	189.06	.433	88.64
3	1.635	243.80	1.851	237.35	1.901	236.11	2.028	236.30	2.040	235.98	2.210	236.94	2.032	225.21
4	.559	98.27	.540	82.66	.522	77.98	.512	71.78	.543	79.15	.624	76.48	.775	83.22
5	.147	321.02	.105	336.19	.102	358.31	.112	21.75	.114	8.63	.113	20.96	.175	8.16
6	.242	168.20	.259	151.49	.289	147.03	.331	149.55	.339	151.04	.354	147.71	.367	151.32
7	.357	189.94	.337	183.71	.347	184.71	.359	184.88	.405	188.06	.376	163.68	.431	173.74
8	.087	284.21	.097	286.59	.103	283.57	.091	293.62	.085	278.08	.093	277.76	.128	69.85
9	.068	75.66	.026	290.40	.045	285.67	.082	294.63	.104	305.75	.097	308.64	.149	329.36
10	.053	293.87	.049	291.69	.047	283.80	.043	293.80	.058	289.91	.063	272.96	.088	294.16

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.098	78.21	1.044	65.37	.957	53.45	11.619	24.38	7.975	20.07	3.754	27.75	2.808	28.29
2	.205	150.06	.212	153.42	.234	153.98	.160	263.54	1.170	263.33	.214	174.55	.225	174.00
3	2.183	236.47	2.219	237.10	2.176	236.23	2.207	229.54	1.897	241.19	2.095	233.80	2.109	235.78
4	.587	75.18	.597	75.66	.579	74.69	.554	58.87	.612	68.14	.545	70.68	.554	74.46
5	.078	28.64	.073	32.62	.046	12.22	.082	17.70	.115	33.42	.048	23.64	.082	29.30
6	.365	155.02	.385	154.24	.379	152.46	.442	134.11	.391	136.48	.362	144.62	.356	151.33
7	.411	186.00	.433	187.38	.396	183.95	.369	158.56	.368	169.60	.363	176.48	.373	184.62
8	.071	273.94	.060	269.69	.077	272.43	.096	322.11	.096	293.70	.081	288.28	.069	287.78
9	.119	315.26	.109	319.49	.115	318.65	.144	299.21	.130	295.62	.133	301.35	.126	314.19
10	.069	276.79	.067	278.77	.072	278.18	.055	229.84	.032	236.67	.052	268.31	.056	274.81

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.891	28.13	1.937	27.16	1.054	27.23	1.060	26.01	.748	55.58	.794	22.46
2	.209	167.41	.244	170.33	.341	150.57	.215	183.14	.244	176.18	.271	181.84
3	1.928	236.18	2.354	237.22	2.051	237.33	2.261	237.40	2.113	236.82	2.102	237.14
4	.531	74.68	.643	74.04	.547	69.32	.623	74.21	.599	73.33	.622	73.38
5	.067	15.84	.088	25.54	.029	315.69	.103	30.26	.060	17.61	.031	56.26
6	.341	149.29	.423	153.74	.361	156.82	.388	154.86	.362	156.21	.388	155.59
7	.366	179.72	.451	164.15	.393	183.05	.429	185.77	.399	184.82	.386	182.70
8	.067	283.31	.075	277.45	.058	275.69	.085	281.55	.074	269.52	.067	261.32
9	.110	311.37	.151	320.30	.137	320.02	.125	320.97	.121	321.02	.128	319.74
10	.050	267.28	.069	273.51	.060	275.72	.053	265.49	.065	275.58	.070	274.29

ORIGINAL PAGE IS
OF POOR QUALITY

GCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 192   ALPHA-MCL = 2.0   PDP RUN.PT 12.02
RUN 12   ALPHA-BAR = .5   Q-COMP = .32277
POINT 1   SIGMA = 45.   V-REF = 199.26
COMPUTED FREQUENCY = 9.16, K = .0722

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	23.476	10.400	13.439	5.302	6.701	3.167	4.477	2.087	2.074	.614	2.212	.281	1 267	-.928
2	.137	-.120	.070	-1.227	.011	-.051	.042	-.115	.121	-.158	-.145	.056	-.307	-.265
3	-.710	-.112	.084	-.104	-.177	-.113	-.061	-.056	.068	.089	-.069	-.128	.324	-.284
4	.367	-.076	.159	.033	.072	.004	-.012	.048	.038	-.021	.031	.012	.102	-.258
5	-.036	.117	.000	.105	-.022	.038	-.032	-.001	-.049	.001	-.025	-.002	-.153	-.045
6	-.071	.268	-.056	.146	-.052	.052	-.028	.003	.003	.010	-.080	-.002	-.010	-.034
7	.006	.197	-.025	.088	-.016	.051	-.015	.000	.035	.059	-.074	-.009	.036	-.068
8	.054	.026	.011	.005	.001	.023	-.015	.017	.004	.019	-.003	.018	-.036	-.178
9	.054	-.192	.047	-.093	.057	-.071	.054	-.016	.012	.002	.056	-.021	-.023	-.012
10	-.057	.007	-.036	.019	-.013	-.007	-.013	-.016	-.022	.004	.031	-.006	-.030	.021

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.728	-.610	-.012	-.332	.164	-.465
2	-.037	-.114	-.054	-.079	-.060	-.111
3	-.012	-.085	.049	.095	.069	.043
4	.020	.0[illegible]2	.024	-.004	.025	.038
5	.020	.014	-.004	-.021	-.028	.016
6	-.020	.011	.016	-.021	-.017	-.015
7	-.018	-.000	.032	.022	.010	.009
8	.012	-.012	.000	-.014	-.013	.011
9	.013	.005	.011	-.005	.011	-.006
10	-.012	.015	-.004	.001	-.005	.001

N	CNREAL	CNIMAG
1	3.709	1.150
2	-.038	-.180
3	.006	-.072
4	.056	-.021
5	-.037	.011
6	-.029	.020
7	-.005	.018
8	-.004	-.013
9	.027	-.026
10	-.016	.003

N	CMREAL	CMIMAG
1	1.098	.558
2	.019	-.032
3	-.025	-.005
4	.009	.004
5	.001	.007
6	-.004	.012
7	-.002	.009
8	.002	.006
9	.005	-.008
10	-.002	-.001

*** STABILITY PARAMETER

```
*                  *
*  XI =   -.5578   *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.796	.720	1.000	.777	-6.436	-2.458	-1.475	-.472	-2.857	-6.273
2	-.345	.115	-.357	.073	-.203	-.064	-.264	.097	.049	-.164
3	-1.597	-2.272	-1.690	-2.345	-1.327	-2.174	-1.316	-2.113	-1.094	-2.449
4	.182	.693	.060	.846	.106	.680	.114	.630	.084	.540
5	.098	-.306	.080	-.159	.139	-.083	.063	.042	-.236	.008
6	-.328	.267	-.293	.268	-.320	.245	-.272	.284	-.280	.132
7	-.483	.045	-.471	-.048	-.471	-.099	-.454	-.007	-.267	-.149
8	.050	-.154	-.039	-.245	.076	-.087	.016	-.112	.090	.182
9	.056	-.116	-.002	-.094	.051	-.099	.070	-.090	-.043	-.090
10	.033	-.082	-.063	-.130	-.059	.016	.019	-.104	-.075	.013

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 192 ALPHA-MCL = 2.0 PDP RUN.PT 12.02
RUN 12 ALPHA-BAR = .5 Q-COMP = .32277
POINT 1 SIGMA = 45. V-REF = 199.26
COMPUTED FREQUENCY = 9.16, K = .0722

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	25.676	23.89	14.447	21.53	7.412	25.30	4.940	24.99	2.163	16.49	2.230	7.23	1.570	323.78
2	.183	318.84	1.229	273.26	.052	282.10	.122	289.92	.199	307.47	.155	158.75	.406	220.80
3	.741	196.61	.134	308.90	.210	212.42	.083	222.97	.112	52.60	.145	241.62	.431	318.81
4	.375	347.93	.162	11.68	.072	2.81	.049	103.71	.044	330.85	.033	20.43	.277	291.56
5	.123	107.04	.105	89.85	.044	319.73	.032	181.86	.049	178.74	.026	184.90	.159	196.46
6	.277	104.87	.156	111.05	.074	135.13	.028	172.83	.011	74.92	.080	181.28	.035	252.82
7	.197	87.62	.092	106.10	.053	107.97	.015	178.24	.068	59.16	.075	186.54	.077	297.82
8	.060	25.48	.012	26.31	.023	86.37	.023	131.31	.019	79.21	.018	99.03	.183	257.85
9	.199	285.61	.104	296.91	.091	309.02	.056	343.64	.012	10.91	.060	339.26	.026	208.58
10	.057	172.92	.040	152.61	.014	207.08	.020	231.09	.023	168.71	.006	279.63	.037	145.13

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.950	320.05	.332	267.88	.493	289.39
2	.120	252.03	.095	235.49	.127	241.49
3	.086	261.99	.107	62.84	.081	31.96
4	.038	58.96	.024	349.52	.045	56.57
5	.025	35.38	.022	258.34	.032	150.11
6	.023	152.37	.026	306.28	.023	220.66
7	.018	180.52	.039	34.62	.013	42.45
8	.017	314.35	.014	270.41	.017	140.72
9	.014	21.41	.012	334.93	.013	329.39
10	.019	129.51	.004	160.85	.005	163.73

N	LN-MAG	PHIN
1	3.883	17.22
2	.184	258.06
3	.073	274.96
4	.059	339.53
5	.038	163.96
6	.035	146.38
7	.018	106.22
8	.013	252.33
9	.037	315.81
10	.016	169.05

N	CM-MAG	PHIM
1	1.232	26.92
2	.037	299.90
3	.025	192.54
4	.010	23.08
5	.007	63.10
6	.012	108.19
7	.009	102.63
8	.006	73.09
9	.010	303.13
10	.002	204.60

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.073	42.16	1.266	37.83	6.890	200.90	1.549	197.75	6.893	245.51
2	.363	161.59	.365	168.46	.213	197.60	.281	159.88	.171	286.56
3	2.778	234.89	2.891	234.22	2.547	238.60	2.490	238.08	2.682	245.92
4	.716	75.29	.648	85.92	.688	81.15	.641	79.73	.546	81.15
5	.098	356.24	.177	296.90	.161	329.25	.076	33.71	.236	178.10
6	.423	140.89	.397	137.59	.403	142.50	.393	133.71	.310	154.78
7	.486	174.63	.473	185.77	.481	191.82	.454	180.93	.306	209.11
8	.162	287.96	.248	260.97	.115	311.07	.113	278.39	.202	63.75
9	.129	295.56	.094	268.63	.111	297.40	.114	308.01	.100	244.63
10	.088	291.78	.144	244.07	.061	164.77	.106	280.17	.076	170.26

*** STABILITY PARAMETER

XI = -.5578

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 194 ALPHA-MCL = 2.0 PDP RUN.PT 12.04
RUN 12 ALPHA-BAR = .5 C-COMP = .32707
POINT 3 SIGMA = 45. V-REF = 200.60
COMPUTED FREQUENCY = 15.56, K = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-14.684	-2.823	-7.814	.284	-5.275	1.277	-3.926	2.022	-2.555	3.076	-2.789	3.578	-2.269	4.144
2	.169	.237	.024	.424	-.016	.455	-.122	.574	-.108	.671	.086	.425	.089	.510
3	.039	.020	.130	.049	.149	.033	.112	-.061	.164	.042	.162	.043	-.068	.005
4	-.234	-.016	-.136	-.014	-.120	-.023	-.051	-.013	-.133	.016	-.103	-.029	-.171	-.046
5	-.195	-.013	-.230	.092	-.250	.113	-.287	.124	-.323	.068	-.348	.084	-.321	-.027
6	.020	.095	.025	.095	.024	.102	.017	.102	.023	.107	.004	.095	.023	.087
7	.182	-.106	.171	-.029	.160	.008	.152	.015	.125	.021	.157	.040	.121	.083
8	-.025	-.109	-.014	-.079	-.009	-.070	.002	-.063	.007	-.066	.010	-.067	.003	-.016
9	.039	.015	.019	.042	.025	.040	.013	.032	.029	.015	.022	.039	.048	.059
10	-.017	-.060	-.013	-.054	-.016	-.050	-.023	-.043	-.018	-.047	-.020	-.047	-.066	-.056

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.067	4.064	-1.976	3.991	-1.879	3.850	8.181	7.591	4.704	5.259	1.063	4.703	.073	4.455
2	-.010	.546	-.034	.551	-.044	.537	.232	.521	-.235	-.436	-.012	.512	-.047	.507
3	.128	-.020	.156	-.029	.149	-.002	.205	-.053	.407	-.195	.186	-.027	.168	-.024
4	-.104	-.000	-.107	.004	-.106	-.004	-.084	-.013	-.079	-.018	-.077	-.006	[illegible]	-.005
5	-.370	.041	-.401	.029	-.393	.030	-.342	.258	-.303	.174	-.338	.155	[illegible]	.062
6	.005	.078	.017	.097	.008	.083	-.018	.054	.002	.062	.008	.074	[illegible]	.078
7	.129	.040	.128	.023	.118	.032	.071	.086	.100	.066	.083	.044	[illegible]	.048
8	.005	-.062	-.011	-.068	-.013	-.064	.027	-.034	.017	-.057	.006	-.054	[illegible]	-.049
9	.010	.032	.004	.042	.000	.044	.023	.014	.018	.009	.023	.008	.032	.003
10	-.009	-.049	-.010	-.050	-.009	-.046	-.026	-.020	-.017	-.020	-.013	-.032	-.017	-.045

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.509	3.703	-.993	4.350	-1.458	3.595	-1.736	3.734	-1.817	3.789	-1.783	3.340
2	-.044	.458	-.066	.541	-.094	.595	-.044	.422	-.045	.445	-.083	.488
3	.172	-.017	.192	-.029	.184	.013	.190	-.025	.168	-.009	.173	-.004
4	-.085	-.007	-.099	.010	-.091	-.006	-.090	.023	-.100	.005	-.098	.033
5	-.347	.095	-.433	.053	-.425	.022	-.417	.015	-.368	.009	-.417	.007
6	.006	.079	.010	.086	.006	.103	.010	.076	.004	.078	.011	.083
7	.091	.021	.097	.027	.088	.036	.101	.011	.099	.028	.097	.025
8	.001	-.055	.003	-.067	-.010	-.042	-.003	-.066	-.004	-.063	-.005	-.059
9	.015	.017	.015	.002	.023	.034	-.001	.020	.001	.014	-.001	.022
10	-.010	-.032	-.017	-.045	-.004	-.041	-.004	-.040	-.005	-.040	-.004	-.040

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 194 ALPHA-MCL = 2.0 PDP RUN.PT 12.04
RUN 12 ALPHA-BAR = .5 Q-COMP = .32707
POINT 3 SIGMA = 45. V-REF = 200.60
COMPUTED FREQUENCY = 15.56, K = .1219

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	14.953	190.88	7.819	177.92	5.427	166.39	4.416	152.75	3.998	129.71	4.537	127.93	4.725	118.71
2	.291	54.41	.424	86.69	.455	92.06	.587	101.99	.679	99.13	.433	78.59	.517	80.05
3	.044	26.92	.139	20.70	.153	12.49	.127	331.45	.169	14.31	.168	14.79	.068	175.55
4	.204	184.61	.137	186.06	.122	190.72	.053	193.95	.134	173.15	.107	195.55	.177	195.05
5	.196	183.84	.248	158.11	.275	155.66	.313	156.59	.330	168.09	.358	166.38	.322	184.73
6	.097	78.08	.098	75.16	.104	76.93	.104	80.43	.109	77.99	.095	87.77	.090	75.45
7	.211	329.78	.173	350.36	.160	2.73	.153	5.61	.127	9.71	.162	14.18	.147	34.19
8	.112	257.23	.080	259.86	.071	262.48	.063	271.56	.066	276.39	.067	278.81	.016	280.92
9	.041	21.22	.046	65.84	.047	58.16	.035	67.13	.033	26.90	.044	60.22	.076	50.70
10	.062	254.44	.056	256.25	.052	252.72	.049	242.10	.050	248.70	.051	246.41	.086	220.31

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.559	116.96	4.453	116.35	4.284	116.01	11.161	42.86	7.056	48.19	4.821	77.27	4.456	89.06
2	.546	91.07	.552	93.50	.538	94.64	.570	66.02	.495	241.65	.513	91.29	.509	95.34
3	.130	351.11	.159	349.35	.149	359.31	.212	345.45	.451	334.40	.188	351.89	.169	351.94
4	.104	180.19	.107	177.68	.106	182.14	.085	188.86	.081	192.90	.077	184.35	.088	183.19
5	.373	173.73	.402	175.83	.394	175.62	.428	142.96	.349	150.10	.371	155.38	.370	170.37
6	.079	86.43	.099	80.32	.083	84.80	.057	108.67	.062	88.32	.075	83.99	.078	86.83
7	.135	17.17	.130	10.30	.122	15.31	.111	50.50	.119	33.53	.094	27.94	.088	33.28
8	.062	274.53	.069	260.62	.065	258.74	.043	308.25	.060	286.79	.054	276.72	.055	295.57
9	.034	73.44	.042	84.17	.044	89.58	.027	31.37	.020	26.20	.024	18.85	.032	5.57
10	.050	259.20	.051	258.38	.047	259.44	.033	218.68	.026	229.02	.035	247.53	.048	249.91

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.738	97.83	4.462	102.86	3.880	112.08	4.118	114.94	4.202	115.63	3.786	118.09
2	.460	95.48	.545	96.92	.603	99.01	.424	95.96	.487	95.78	.495	99.65
3	.172	354.35	.194	351.53	.184	4.20	.191	352.54	.168	356.87	.174	358.72
4	.085	184.26	.100	174.40	.091	183.58	.093	165.77	.100	177.01	.104	161.61
5	.360	164.77	.436	172.98	.425	176.99	.418	177.99	.368	178.63	.417	179.09
6	.079	85.67	.087	83.61	.104	86.83	.077	82.79	.078	86.93	.084	82.70
7	.094	13.09	.101	15.75	.095	22.12	.102	6.37	.103	15.61	.100	14.47
8	.055	270.58	.067	272.48	.043	256.49	.066	267.60	.064	266.64	.059	265.32
9	.023	47.97	.015	8.22	.042	55.87	.020	91.93	.014	86.03	.022	93.31
10	.034	252.79	.046	254.87	.041	263.75	.040	263.78	.041	262.49	.040	264.08

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 194 ALPHA-MCL = 2.0 PDP RUN.PT 12.04
RUN 12 ALPHA-BAR = .5 Q-COMP = .32707
POINT 3 SIGMA = 45. V-REF = 200.60
COMPUTED FREQUENCY = 15.56, K = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	22.865	10.415	12.518	4.975	6.337	3.426	3.999	2.433	2.045	.627	1.796	.772	.811	-.549
2	.062	.284	-.260	-.859	.005	.058	.075	-.067	.064	-.213	-.151	.117	-.194	.085
3	.166	-.073	.277	-.244	.037	-.060	.056	.037	.007	-.059	.030	-.071	.252	.008
4	.120	.003	.057	-.004	.043	.017	-.036	.008	.048	-.023	.004	.038	.080	.040
5	-.147	.271	-.073	.082	-.087	.042	-.077	-.062	-.024	.026	-.085	-.031	-.103	.049
6	-.038	-.041	-.023	-.033	-.016	-.027	-.013	-.024	-.017	-.028	.006	-.009	-.017	.017
7	-.111	.192	-.071	.095	-.077	.036	-.078	.033	-.034	-.000	-.059	-.012	-.034	-.047
8	.051	.075	.031	.021	.016	.016	.022	.014	-.007	.011	-.007	-.000	-.013	-.026
9	-.015	-.001	-.001	-.033	-.002	-.032	.018	-.029	-.014	.002	-.007	-.036	-.025	-.024
10	-.009	.040	-.004	.034	.002	.018	.006	-.002	.008	.014	.008	.002	.061	.015

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.331	-.330	.159	-.202	.096	-.510
2	-.034	-.124	-.011	-.106	-.039	-.048
3	.062	-.005	.012	.020	.025	-.002
4	.013	.023	.007	.001	.008	.037
5	-.047	-.026	.033	-.020	-.024	-.024
6	.005	-.002	-.012	-.019	.003	.000
7	-.028	-.029	-.029	.004	-.021	-.007
8	-.008	-.004	.008	.004	.008	.005
9	-.010	-.013	-.003	-.028	-.002	-.021
10	.005	.009	.005	.010	.004	.006

N	CNREAL	CNIMAG
1	3.376	1.344
2	-.049	-.078
3	.080	-.037
4	.027	.015
5	-.061	.010
6	-.009	-.013
7	-.049	.009
8	.005	.006
9	-.006	-.022
10	.011	.011

N	CMREAL	CMIMAG
1	1.055	.550
2	.003	-.020
3	.006	-.010
4	.002	-.003
5	-.006	.008
6	-.002	-.004
7	-.006	.010
8	.003	.003
9	.001	-.001
10	-.002	.001

*** STABILITY PARAMETER

```
*                  *
* XI =     -.5500  *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.190	4.458	-2.230	4.499	-9.074	1.467	-4.072	2.995	-6.154	-2.690
2	-.008	.791	-.121	.777	.094	.353	-.009	.597	.316	.508
3	.264	.020	.216	.086	.038	-.128	.221	-.095	.330	.235
4	-.150	-.033	-.224	-.027	-.107	-.040	-.127	-.033	-.192	.128
5	-.380	.222	-.381	.247	-.309	.132	-.367	.107	-.455	-.020
6	.050	.120	.088	.157	.053	.135	.008	.107	.036	.109
7	.165	.038	.168	-.044	.237	.011	.165	.048	.201	.045
8	.006	-.075	-.036	-.124	-.002	-.085	-.014	-.100	.032	-.149
9	.036	.041	.057	.030	-.001	.054	.013	.036	.004	.017
10	-.017	-.055	.019	-.059	-.034	-.066	-.034	-.062	-.067	-.033

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILF 194 ALPHA-MCL = 2.0 PDP RUN.PT 12.04
RUN 12 ALPHA-BAR = .5 Q-COMP = .32707
POINT 3 SIGMA = 45. V-REF = 200.60
COMPUTED FREQUENCY = 15.56, K = .1219

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	25.125	24.49	13.470	21.67	7.204	28.39	4.681	31.32	2.140	17.05	1.955	23.26	.979	325.92
2	.291	77.63	.898	253.19	.058	85.21	.100	317.94	.222	286.68	.191	142.38	.203	155.07
3	.181	336.30	.369	318.65	.070	301.91	.067	33.40	.059	277.26	.077	292.83	.252	1.86
4	.120	1.61	.057	356.33	.046	21.47	.037	167.82	.053	334.42	.039	84.06	.090	26.75
5	.308	118.41	.110	131.79	.097	154.57	.099	218.96	.036	132.55	.090	200.22	.114	154.65
6	.056	226.71	.040	234.38	.032	240.06	.028	241.95	.032	238.94	.011	303.62	.024	135.24
7	.222	120.04	.119	126.81	.085	154.63	.085	156.87	.034	180.39	.061	191.55	.058	234.31
8	.091	55.53	.038	34.30	.023	46.45	.026	32.51	.013	121.51	.007	181.70	.029	243.02
9	.015	182.91	.033	268.66	.032	267.01	.034	302.69	.014	172.71	.037	258.08	.034	224.43
10	.041	102.45	.034	96.87	.018	82.88	.007	344.39	.017	60.40	.039	14.89	.063	13.81

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.467	315.07	.257	308.18	.519	280.66
2	.128	254.67	.107	263.91	.062	230.83
3	.062	355.52	.023	59.73	.025	355.19
4	.027	60.28	.007	7.03	.037	78.41
5	.054	209.11	.039	328.50	.034	224.11
6	.005	332.45	.023	236.99	.003	2.97
7	.040	225.60	.029	171.16	.022	199.09
8	.009	205.96	.009	30.69	.009	30.28
9	.016	231.19	.028	263.25	.021	265.68
10	.010	60.97	.011	63.41	.008	53.88

N	CN-MAG	PHIN
1	3.634	21.70
2	.092	238.09
3	.088	335.40
4	.031	29.72
5	.062	170.65
6	.016	234.93
7	.050	169.06
8	.007	49.97
9	.022	255.09
10	.016	44.43

N	CM-MAG	PHIM
1	1.190	27.53
2	.020	279.76
3	.012	299.68
4	.003	310.71
5	.010	128.32
6	.004	238.61
7	.012	122.32
8	.004	48.74
9	.001	324.87
10	.002	136.47

*** STABILITY PARAMETER

*
* XI = -.5500 *
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.967	116.16	5.021	116.36	9.192	170.82	5.054	143.66	6.717	203.61
2	.791	90.60	.787	98.83	.365	75.15	.597	90.87	.598	58.06
3	.264	4.42	.233	21.76	.134	286.70	.240	336.60	.405	35.41
4	.154	192.35	.226	186.78	.115	200.21	.132	194.45	.231	146.41
5	.440	149.69	.454	147.03	.336	156.88	.383	163.70	.456	142.48
6	.130	67.24	.180	60.85	.145	68.35	.107	85.54	.115	71.89
7	.170	12.89	.174	345.51	.237	2.76	.172	16.34	.206	12.60
8	.075	274.91	.129	253.85	.085	268.49	.101	261.85	.152	281.99
9	.055	48.16	.057	.34	.054	90.75	.039	69.77	.017	76.23
10	.058	252.80	.062	287.73	.075	242.71	.071	241.42	.075	206.35

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 196 ALPHA-MCL = 2.0 PDP RUN.PT 12.06
RUN 12 ALPHA-BAR = .5 Q-COMP = .31769
POINT 5 SIGMA = 45. V-REF = 197.66
COMPUTED FREQUENCY = 19.21, K = .1526

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-14.442	-4.107	-7.592	-1.421	-5.048	-.561	-3.697	-.015	-2.271	.788	-2.440	1.292	-1.909	1.837
2	.618	-.406	.557	-.501	.550	-.520	.524	-.436	.537	-.388	.719	-.699	.823	-.665
3	-.534	.070	-.445	.128	-.416	.117	-.460	.069	-.368	.126	-.473	.092	-.538	.024
4	.044	-.100	-.092	-.167	-.122	-.183	-.102	-.235	-.149	-.231	-.124	-.270	-.058	-.338
5	.062	-.142	.009	-.074	-.005	-.054	-.003	-.031	.010	-.037	-.010	-.013	-.115	.008
6	-.003	.031	-.059	.011	-.065	.003	-.070	-.003	-.090	.028	-.067	.001	-.025	-.070
7	-.186	-.051	-.068	-.053	-.065	-.056	-.065	-.047	-.094	-.069	-.054	-.067	-.048	.027
8	-.024	.049	-.032	.034	-.038	.024	-.041	.013	-.038	.029	-.054	.025	.027	-.022
9	.001	-.057	-.014	-.068	-.015	-.066	-.008	-.071	-.010	-.084	-.016	-.069	-.004	-.044
10	-.024	-.099	-.009	-.059	-.007	-.047	-.004	-.043	.003	-.034	-.006	-.040	-.035	-.062

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.753	1.815	-1.626	1.734	-1.569	1.602	8.463	5.130	5.039	2.634	1.325	2.582	.366	2.295
2	.648	-.539	.657	-.506	.595	-.539	.617	-.957	.108	-1.404	.534	-.659	.555	-.597
3	-.459	.082	-.451	.107	-.429	.124	-.268	.186	-.300	.017	-.356	.166	-.381	.126
4	-.082	-.304	-.073	-.324	-.077	-.299	-.320	-.403	-.253	-.342	-.174	-.326	-.090	-.327
5	-.032	.003	-.028	.006	-.043	.003	-.079	.072	-.046	.023	-.055	.030	-.029	.022
6	-.057	-.011	-.047	-.025	-.044	-.019	-.087	-.031	-.082	-.029	-.064	-.019	-.057	-.013
7	-.041	-.042	-.052	-.038	-.035	-.033	-.027	-.019	-.049	-.026	-.074	-.023	-.084	-.035
8	-.051	.007	-.050	.002	-.046	.001	-.070	-.053	-.051	-.040	-.047	-.035	-.042	-.022
9	-.009	-.044	-.014	-.038	-.021	-.043	-.050	-.028	-.047	-.042	-.038	-.031	-.020	-.033
10	-.017	-.038	-.020	-.042	-.019	-.040	-.023	.020	-.021	-.010	-.030	-.027	-.013	-.038

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.272	1.829	-.666	2.054	-1.145	1.631	-1.418	1.577	-1.410	1.717	-1.508	1.343
2	.518	-.553	.628	-.638	.524	-.409	.601	-.624	.535	-.537	.537	-.557
3	-.360	.152	-.449	.162	-.314	.161	-.438	.147	-.396	.136	-.389	.142
4	-.105	-.302	-.078	-.366	-.042	-.359	-.051	-.325	-.049	-.293	-.043	-.294
5	-.039	.012	-.044	.006	-.065	-.013	-.049	.005	-.039	-.003	-.039	-.003
6	-.050	-.006	-.057	.002	-.048	-.012	-.049	-.013	-.052	-.003	-.043	-.003
7	-.064	-.025	-.098	-.033	-.071	-.020	-.062	-.040	-.056	-.034	-.060	-.034
8	-.034	-.016	-.042	-.017	-.021	-.005	-.039	-.001	-.036	.005	-.037	.004
9	-.034	-.041	-.037	-.047	-.021	-.044	-.030	-.039	-.028	-.043	-.025	-.046
10	-.022	-.035	-.020	-.043	-.014	-.048	-.016	-.043	-.012	-.041	-.010	-.037

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 196 ALPHA-MCL = 2.0 PDP RUN.PT 12.06
RUN 12 ALPHA-BAR = .5 Q-COMP = .31769
POINT 5 SIGMA = 45. V-REF = 197.66
COMPUTED FREQUENCY = 19.21, K = .1526

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	15.015	195.88	7.723	190.60	5.080	186.35	3.697	180.23	2.404	160.87	2.760	152.10	2.649	136.11
2	.740	326.70	.749	318.02	.757	316.64	.682	320.27	.662	324.14	1.003	315.84	1.059	321.05
3	.539	172.49	.463	163.96	.432	164.31	.465	171.44	.388	161.15	.482	168.96	.538	177.39
4	.110	293.53	.191	241.15	.220	236.29	.257	246.52	.275	237.10	.298	245.36	.343	260.23
5	.155	293.60	.075	277.10	.055	264.55	.032	264.12	.039	284.74	.017	234.06	.116	175.99
6	.031	96.13	.060	169.03	.065	177.29	.071	182.45	.094	162.67	.067	179.41	.074	250.48
7	.193	195.26	.103	210.90	.085	220.84	.080	215.75	.117	216.34	.086	231.03	.055	150.57
8	.055	115.51	.047	133.53	.045	147.16	.043	162.27	.048	142.47	.059	155.12	.035	320.68
9	.057	270.97	.069	258.69	.068	257.61	.071	263.17	.085	263.30	.070	256.71	.044	264.65
10	.102	256.55	.060	261.47	.047	261.55	.043	264.50	.034	274.47	.040	261.49	.071	240.07

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.524	134.00	2.377	133.16	2.242	134.39	9.896	31.22	5.686	27.59	2.902	62.83	2.324	80.93
2	.843	320.25	.829	322.36	.603	317.86	1.139	302.80	1.409	274.39	.848	309.00	.815	312.94
3	.466	169.89	.463	166.69	.447	163.84	.326	145.26	.301	176.84	.393	154.94	.401	161.66
4	.315	254.85	.332	257.34	.309	255.65	.514	231.51	.426	233.53	.370	241.95	.340	254.66
5	.032	175.12	.029	167.11	.043	176.00	.107	137.67	.052	154.02	.063	151.69	.063	159.65
6	.058	190.88	.053	208.07	.049	203.65	.092	199.48	.087	199.49	.066	196.97	.059	192.35
7	.058	225.88	.064	216.12	.048	223.63	.033	214.23	.056	208.24	.077	197.60	.091	202.96
8	.051	172.35	.050	178.10	.046	179.22	.088	217.15	.065	217.56	.059	216.82	.047	208.06
9	.045	257.89	.040	250.38	.048	243.98	.057	209.56	.063	221.66	.049	219.02	.038	239.15
10	.041	246.27	.047	244.47	.044	244.54	.030	138.19	.023	204.12	.040	221.65	.040	250.73

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.849	98.46	2.159	107.95	1.993	125.08	2.121	131.96	2.222	129.39	2.019	138.31
2	.757	313.12	.895	314.54	.665	322.06	.866	313.95	.758	314.94	.774	313.96
3	.390	157.10	.478	160.14	.353	152.82	.462	161.43	.419	161.07	.414	159.94
4	.319	250.80	.374	258.03	.361	263.37	.329	261.02	.297	260.57	.297	261.70
5	.041	163.04	.045	171.82	.067	191.26	.049	174.58	.039	183.92	.039	185.06
6	.051	187.07	.057	177.90	.050	193.38	.051	194.53	.052	183.49	.043	183.54
7	.068	201.56	.103	198.62	.074	195.61	.074	212.41	.066	211.09	.069	209.76
8	.038	205.39	.046	201.79	.021	192.57	.039	181.54	.038	172.42	.037	174.05
9	.053	230.54	.060	231.69	.049	244.12	.049	232.27	.051	237.24	.053	241.71
10	.042	237.84	.048	244.92	.050	253.40	.046	249.37	.043	253.57	.039	255.48

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 196 ALPHA-MCL = 2.0 PDP RUN.PT 12.06
RUN 12 ALPHA-BAR = .5 Q-COMP = .31769
POINT 5 SIGMA = 45. V-REF = 197.66
COMPUTED FREQUENCY = 19.21, K = .1526

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	22.904	9.237	12.631	4.055	6.373	3.143	4.063	2.310	1.999	1.041	1.774	.762	.764	-.206
2	-.001	-.551	-.449	-.903	-.017	-.139	.031	-.161	-.019	-.165	-.092	.061	-.299	.257
3	.266	.115	.145	-.111	.060	.050	.079	.057	.008	.026	.024	.070	.224	.137
4	-.364	-.302	-.161	-.175	-.052	-.143	.012	-.092	.044	-.071	.047	-.095	.016	-.021
5	-.142	.215	-.056	.097	-.050	.084	-.056	.053	-.049	.049	-.035	.020	.050	-.021
6	-.084	-.062	-.024	-.041	.002	-.022	.013	-.010	.040	-.034	.010	.001	-.024	.058
7	.159	.032	.039	.026	-.009	.032	-.019	.011	.031	.044	-.043	.034	-.023	-.047
8	-.047	-.103	-.019	-.073	-.009	-.060	-.001	-.035	.004	-.045	.011	-.042	-.048	.018
9	-.050	.029	-.034	.026	-.023	.036	-.011	.038	-.024	.043	-.021	.022	-.017	.000
10	.001	.119	-.012	.050	-.023	.020	-.009	.005	-.025	-.001	-.014	-.003	.021	.014

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.335	-.238	.215	-.016	.061	-.259
2	-.047	-.065	-.121	-.030	-.058	-.018
3	.021	.065	.055	.029	.041	.017
4	.031	-.022	.024	.031	.034	.005
5	-.017	.002	-.011	-.009	.004	-.006
6	.008	-.002	-.005	.022	.001	.017
7	-.022	.002	-.004	.004	-.025	-.001
8	.012	-.008	.012	.003	.009	.003
9	-.021	.005	-.014	-.005	-.004	-.004
10	.000	-.005	.008	.001	.009	.002

N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
1	3.382	1.339	1	1.063	.475
2	-.097	-.107	2	-.001	-.049
3	.075	.048	3	.005	-.004
4	-.004	-.073	4	-.014	-.018
5	-.027	.034	5	-.008	.012
6	.002	-.003	6	-.001	-.006
7	-.005	.013	7	.005	.004
8	-.005	-.029	8	-.002	-.008
9	-.019	.020	9	-.002	.004
10	-.006	.011	10	-.003	.004

*** STABILITY PARAMETER

* XI = -.4745 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.882	1.686	-2.058	1.742	-8.769	-1.072	-3.672	.451	-5.735	-5.089
2	.665	-.850	.547	-.736	.889	-.829	.733	-.637	1.158	-.660
3	-.502	.225	-.392	.198	-.641	.231	-.493	.171	-.274	.192
4	-.237	-.330	-.284	-.400	-.164	-.234	-.151	-.308	-.098	-.089
5	-.035	-.013	.036	-.054	-.048	.032	.088	.042	-.073	-.061
6	-.119	-.016	-.116	-.029	-.078	-.005	-.097	-.021	-.124	-.003
7	-.100	-.060	-.066	-.058	-.097	-.073	-.048	-.054	-.028	-.036
8	-.061	-.015	-.063	.068	-.041	.033	-.057	.031	-.054	.009
9	-.039	-.071	-.029	-.087	-.014	-.084	-.017	-.086	-.000	-.103
10	-.031	-.051	-.029	-.064	-.020	-.055	-.011	-.052	-.002	-.068

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 196 ALPHA-MCL = 2.0 PDP RUN.PT 12.06
RUN 12 ALPHA-BAR = .5 Q-COMP = .31769
POINT 5 SIGMA = 45. V-REF = 197.66
COMPUTED FREQUENCY = 19.21, K = .1526

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	24.697	21.96	13.266	17.80	7.106	26.25	4.674	29.61	2.254	27.50	1.931	23.26	.791	344.90
2	.551	269.86	1.009	243.57	.140	263.14	.164	280.90	.166	263.44	.110	146.48	.394	139.35
3	.290	23.47	.182	322.41	.078	39.85	.097	35.81	.028	73.00	.074	71.07	.262	31.44
4	.473	219.70	.238	227.42	.152	250.14	.093	277.69	.084	301.90	.106	296.03	.027	307.66
5	.257	123.41	.112	119.87	.098	120.84	.077	136.31	.070	134.88	.040	150.27	.054	337.10
6	.104	216.37	.047	239.65	.023	274.47	.016	324.28	.052	319.15	.010	8.18	.063	111.99
7	.162	11.44	.047	34.04	.034	105.60	.022	148.40	.054	55.24	.055	141.53	.052	244.03
8	.113	245.43	.076	255.28	.060	261.20	.035	268.34	.046	275.22	.043	285.26	.051	159.60
9	.058	149.79	.043	142.15	.042	123.06	.039	106.45	.049	119.16	.030	133.51	.017	179.21
10	.119	89.54	.051	104.05	.031	138.75	.010	151.44	.025	182.77	.014	192.27	.025	33.37

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.411	324.60	.216	355.69	.266	283.18
2	.097	241.23	.125	193.96	.061	197.21
3	.069	72.08	.062	28.17	.045	23.06
4	.038	324.86	.039	51.99	.034	8.71
5	.017	173.60	.014	219.61	.008	304.80
6	.008	346.48	.022	103.45	.017	85.50
7	.022	173.75	.006	137.14	.025	182.47
8	.014	325.78	.013	15.37	.010	19.37
9	.021	167.25	.015	199.12	.005	221.38
10	.005	275.35	.008	8.17	.009	13.68

N	CN-MAG	PHIN
1	3.637	21.61
2	.145	227.80
3	.089	32.57
4	.073	266.72
5	.044	128.52
6	.004	305.22
7	.014	110.90
8	.029	260.09
9	.027	133.91
10	.012	118.05

N	CM-MAG	PHIM
1	1.164	24.05
2	.049	268.27
3	.006	324.05
4	.023	231.64
5	.015	124.45
6	.006	263.48
7	.007	37.23
8	.008	258.52
9	.005	113.78
10	.005	124.69

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.527	138.15	2.696	139.75	8.834	186.97	3.699	173.00	7.668	221.59
2	1.079	308.05	.917	306.64	1.215	317.00	.971	318.99	1.333	330.34
3	.550	155.90	.439	153.23	.682	160.22	.522	160.87	.335	144.91
4	.406	234.36	.491	234.59	.286	235.08	.343	243.90	.132	222.01
5	.038	200.44	.065	303.19	.058	146.32	.097	25.61	.095	219.76
6	.120	187.48	.120	194.16	.078	183.87	.099	192.38	.124	181.29
7	.116	210.89	.087	221.29	.121	216.65	.072	228.11	.046	232.51
8	.063	194.16	.092	132.60	.053	141.01	.064	151.24	.054	169.97
9	.081	241.01	.091	251.62	.085	260.41	.088	258.83	.103	269.93
10	.060	238.36	.071	245.43	.059	250.29	.053	258.15	.068	268.66

*** STABILITY PARAMETER

* XI = -.4745 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 58 ALPHA-MCL = 2.0 PDP RUN.PT 13.09
RUN 13 ALPHA-PAR = .5 Q-COMP = .32735
POINT 1 SIGMA = 90. V-REF = 200.61
COMPUTED FREQUENCY = 9.15, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-16.208	-2.635	-7.544	.161	-4.601	1.091	-3.089	1.752	-1.920	2.638	-2.364	3.137	-2.205	3.517
2	-.276	-.257	-.405	-.226	-.442	-.257	-.539	-.103	-.545	-.108	-.366	-.462	-.433	-.333
3	-.122	-.318	-.069	-.444	-.088	-.473	-.123	-.612	.012	-.497	-.036	-.629	-.044	-.644
4	.191	-.667	.244	-.732	.246	-.724	.367	-.760	.239	-.751	.324	-.815	.344	-.825
5	.371	.239	.342	.111	.277	.069	.251	.098	.268	.059	.298	.041	.292	.001
6	.293	-.439	.200	-.577	.187	-.606	.202	-.632	.280	-.682	.268	-.702	.239	-.704
7	.185	.143	.287	.040	.304	.021	.344	.011	.362	.046	.365	.007	.360	.045
8	.190	-.119	.191	-.170	.211	-.165	.248	-.148	.298	-.167	.276	-.183	.286	-.135
9	.168	-.089	.090	-.075	.074	-.051	.049	-.056	.084	-.065	.044	-.062	.052	-.073
10	.094	.032	.036	.017	.039	.011	.028	-.002	.010	.005	.015	.038	.021	.010

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.797	3.367	-1.487	3.145	-1.165	2.877	12.848	6.876	8.441	4.656	3.697	3.940	2.392	3.511
2	-.440	-.308	-.454	-.311	-.453	-.317	-.222	-.773	-.629	-2.122	-.470	-.391	-.493	-.382
3	-.043	-.633	-.031	-.636	-.052	-.601	-.051	-.616	.244	-.653	-.063	-.563	-.052	-.569
4	.335	-.787	.344	-.801	.297	-.773	.277	-.828	.233	-.880	.283	-.790	.297	-.758
5	.282	.014	.304	.007	.290	-.005	.176	-.059	.246	-.027	.236	.013	.245	.039
6	.263	-.676	.287	-.679	.246	-.668	.052	-.828	.101	-.760	.173	-.709	.245	-.670
7	.350	.058	.364	.066	.358	.051	.425	-.115	.405	-.052	.375	-.027	.360	.035
8	.289	-.118	.307	-.126	.279	-.126	.282	-.259	.265	-.207	.288	-.196	.316	-.137
9	.062	-.075	.064	-.080	.062	-.083	-.048	-.065	.023	-.052	.052	-.079	.075	-.074
10	.011	.014	.014	.022	.016	.022	-.030	.063	.006	.014	.003	.015	-.001	.017

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.246	2.772	.943	3.106	-.180	2.378	-.263	2.484	-1.048	2.337	-.411	2.089
2	-.449	-.297	-.536	-.380	-.610	.005	-.419	-.559	-.500	-.440	-.601	-.408
3	-.038	-.506	-.009	-.615	.072	-.515	-.108	-.611	-.114	-.548	-.007	-.486
4	.275	-.724	.367	-.890	.303	-.784	.320	-.774	.275	-.715	.323	-.768
5	.243	.007	.297	.033	.310	.042	.316	.046	.305	.038	.289	.056
6	.202	-.633	.234	-.752	.286	-.674	.292	-.683	.266	-.670	.265	-.642
7	.344	.008	.409	.050	.344	.041	.385	.067	.353	.064	.336	.058
8	.280	-.153	.347	-.156	.304	-.106	.302	-.150	.270	-.107	.263	-.114
9	.056	-.090	.098	-.112	.090	-.119	.071	-.121	.076	-.100	.087	-.097
10	.006	.011	.006	.013	-.012	.010	.035	.004	.029	.015	.004	.021

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 58 ALPHA-MCL = 2.0 PDP RUN.PT 13.09
RUN 13 ALPHA-PAR = .5 Q-COMP = .32715
POINT 1 SIGMA = 90. V-REF = 200.61
COMPUTED FREQUENCY = 9.15 K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	16.421	189.23	7.546	178.77	4.729	166.67	3.551	150.44	3.262	126.05	3.928	127.00	4.151	122.08
2	.377	222.95	.463	209.15	.511	210.15	.549	190.77	.556	191.18	.589	231.61	.547	217.55
3	.340	249.06	.449	261.16	.481	259.44	.625	258.67	.497	271.35	.630	266.70	.646	266.09
4	.694	285.97	.771	288.43	.764	288.77	.844	295.76	.788	287.68	.677	291.67	.894	292.65
5	.441	32.77	.359	17.98	.285	13.93	.270	21.38	.274	12.35	.300	7.76	.292	.28
6	.528	303.70	.611	289.12	.634	287.14	.664	287.73	.737	292.32	.752	290.93	.744	288.77
7	.234	37.67	.290	8.02	.305	3.93	.344	1.79	.365	7.23	.366	1.16	.362	7.13
8	.216	326.39	.256	318.34	.270	321.45	.289	329.29	.341	330.62	.331	326.52	.316	334.80
9	.190	332.03	.117	320.01	.090	325.55	.074	311.34	.106	322.11	.076	305.39	.089	305.35
10	.099	18.95	.040	26.00	.041	15.57	.028	355.66	.011	25.21	.041	68.56	.023	25.73

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.817	118.08	3.478	115.30	3.104	112.04	14.572	28.16	9.640	28.88	5.403	46.82	4.248	55.73
2	.537	215.02	.550	214.40	.553	215.04	.805	253.95	2.213	253.49	.611	219.77	.624	217.76
3	.634	266.09	.637	267.25	.603	265.06	.618	265.28	.697	290.50	.566	263.60	.571	264.81
4	.855	293.07	.872	293.27	.828	291.00	.873	288.54	.910	284.81	.839	289.69	.814	291.42
5	.282	2.90	.304	1.40	.290	358.96	.186	341.49	.248	353.80	.236	3.26	.248	9.03
6	.725	291.22	.737	292.91	.712	290.19	.830	273.59	.767	277.59	.730	283.69	.713	290.11
7	.355	9.37	.370	10.21	.362	8.11	.440	344.80	.409	352.67	.376	355.88	.362	5.63
8	.312	337.79	.332	337.61	.306	335.80	.383	317.51	.336	322.00	.349	325.78	.344	336.64
9	.097	309.73	.102	308.33	.103	306.64	.081	233.58	.057	293.56	.094	303.45	.106	315.56
10	.018	51.26	.026	57.83	.028	54.37	.070	115.33	.015	66.62	.016	79.08	.017	94.11

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.039	65.79	3.246	73.10	2.385	94.33	2.498	96.05	2.561	114.15	2.129	101.13
2	.538	213.52	.656	215.32	.610	179.48	.698	233.17	.666	221.37	.726	214.17
3	.508	265.69	.615	269.13	.520	277.97	.620	260.01	.560	258.30	.486	269.21
4	.775	290.78	.963	292.38	.841	291.12	.837	292.50	.766	291.02	.833	292.82
5	.243	1.55	.299	6.29	.313	7.68	.319	8.26	.307	7.13	.294	10.91
6	.665	287.67	.803	290.70	.732	293.02	.742	293.13	.721	291.65	.695	292.44
7	.344	1.32	.412	6.98	.346	6.85	.391	9.88	.359	10.24	.341	9.80
8	.319	331.35	.376	335.49	.322	340.70	.337	333.60	.291	338.37	.287	336.51
9	.111	306.05	.149	311.14	.149	306.89	.140	300.45	.125	307.10	.131	311.76
10	.012	61.70	.015	64.82	.015	140.84	.035	6.77	.033	27.50	.021	78.37

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 58 ALPHA-MCL = 2.0 PDP RUN.PT 13.09
RUN 13 ALPHA-BAR = .5 Q-COMP = .32715
POINT 1 SIGMA = 90. V-REF = 200.61
COMPUTED FREQUENCY = 9.15, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	29.056	9.511	15.985	4.494	8.298	2.849	5.481	1.759	3.166	.135	3.307	-.032	2.025	-1.139
2	.054	-.516	-.224	-1.896	-.028	-.134	.046	-.279	.096	-.190	-.170	.082	-.177	.339
3	.071	-.298	.313	-.209	.025	-.089	.071	.044	-.050	-.010	.027	.014	.116	.130
4	.087	-.161	-.011	-.148	.037	-.067	-.069	.002	.035	.027	.043	-.075	-.041	.041
5	-.195	-.298	-.095	-.138	-.041	-.055	-.006	-.059	-.025	-.052	-.000	-.008	.018	.040
6	-.241	-.389	-.099	-.183	-.014	-.103	.043	-.033	-.078	.048	.016	-.050	.047	.031
7	.239	-.258	.118	-.093	.071	-.048	.016	.025	-.018	-.038	.044	.045	-.016	-.004
8	.103	-.139	.073	-.037	.077	-.028	.068	.011	-.017	.014	.066	.027	.018	.028
9	-.216	.024	-.067	.024	-.022	-.028	.027	-.018	-.018	-.025	.054	-.050	.038	-.046
10	-.124	.031	-.030	-.004	-.037	.004	-.029	.019	-.004	.006	-.009	-.025	-.033	-.001

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.534	-.863	.439	-.807	.754	-.788
2	.021	-.251	-.046	-.129	-.148	-.090
3	-.064	.022	-.083	.088	.045	.115
4	-.014	.013	-.070	.086	.026	.006
5	.034	.032	.000	.031	-.001	.061
6	.029	-.007	-.021	.009	.020	.026
7	.035	.009	-.011	-.002	-.023	.007
8	.013	-.032	-.036	.019	-.016	.011
9	.009	-.046	.012	-.019	.025	-.015
10	.024	-.010	.016	-.006	-.012	-.002

N	CNREAL	CNIMAG
1	4.892	.778
2	-.056	-.208
3	.040	.007
4	-.000	-.017
5	-.015	-.024
6	-.009	-.034
7	.027	-.014
8	.031	-.000
9	.063	-.026
10	-.017	-.001

N	CMREAL	CMIMAG
1	1.289	.526
2	.006	-.075
3	.012	-.022
4	.002	-.011
5	-.009	-.018
6	-.009	-.017
7	.010	-.009
8	.009	-.004
9	-.008	.003
10	-.005	.002

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.772	4.047	.680	3.982	-8.280	1.035	-3.035	2.319	.221	-4.776
2	-.629	-.302	-.759	-.313	-.472	-.539	-.584	-.300	-.735	-.073
3	-.117	-.658	-.189	-.727	.032	-.549	-.050	-.622	-.119	-.364
4	.327	-1.086	.293	-1.177	.351	-.890	.376	-.926	.275	-.908
5	.326	.037	.228	-.099	.414	.138	.302	.123	.478	.218
6	.191	-.739	.388	-1.077	.272	-.780	.277	-.824	.370	-.651
7	.465	-.101	.487	-.019	.411	.058	.425	.059	.331	.202
8	.344	-.292	.311	-.302	.249	-.268	.320	-.211	.379	-.123
9	.060	-.078	.107	-.102	.117	-.097	.591	-.071	.055	-.011
10	.060	.029	.050	-.025	-.004	-.005	.128	.026	.083	.021

*** STABILITY PARAMETER

XI = -.5260

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 58 ALPHA-MCL = 2.0 PDP RUN.PT 13.09
RUN 13 ALPHA-BAR = .5 Q-COMP = .32715
POINT 1 SIGMA = 90. V-REF = 200.61
COMPUTED FREQUENCY = 9.15, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.142		.261	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	30.573	18.12	16.605	15.70	8.774	18.95	5.757	17.79
2	.519	275.96	1.909	263.25	.137	258.26	.283	279.34
3	.306	283.38	.376	326.28	.093	285.66	.083	31.60
4	.183	298.32	.148	265.69	.076	299.03	.069	178.72
5	.356	236.82	.167	235.30	.069	233.49	.060	263.78
6	.458	238.25	.208	241.64	.104	262.20	.057	319.11
7	.352	312.80	.150	321.87	.086	326.03	.029	57.05
8	.173	306.41	.082	333.48	.082	340.21	.069	9.29
9	.217	173.71	.071	160.68	.036	231.12	.032	325.30
10	.128	165.92	.030	187.07	.037	173.30	.035	147.12

X =	.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.169	2.43	3.307	359.45	2.323	330.63
2	.213	296.96	.189	154.20	.382	117.58
3	.051	190.81	.030	28.06	.174	48.13
4	.044	36.95	.087	299.68	.058	135.49
5	.058	244.50	.008	266.98	.044	65.72
6	.092	148.24	.052	287.42	.056	33.32
7	.042	244.53	.061	44.30	.016	193.06
8	.022	140.18	.071	22.27	.033	58.16
9	.031	233.58	.073	317.10	.060	309.18
10	.007	120.39	.026	250.63	.033	181.14

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.770	330.05	.919	298.52	1.090	313.74
2	.252	274.76	.137	250.51	.173	211.40
3	.068	161.18	.121	133.31	.124	68.50
4	.019	138.23	.111	128.99	.027	12.18
5	.046	42.92	.031	89.50	.061	90.57
6	.030	347.43	.023	157.72	.032	52.76
7	.037	14.81	.011	189.13	.024	163.00
8	.035	292.49	.041	152.18	.020	145.46
9	.047	280.96	.023	301.56	.029	329.98
10	.026	337.32	.017	337.87	.012	187.67

N	CN-MAG	PHIN
1	4.954	9.04
2	.215	254.78
3	.040	9.73
4	.017	269.26
5	.029	238.00
6	.035	254.51
7	.031	331.97
8	.031	359.42
9	.026	276.95
10	.017	182.01

N	CM-MAG	PHIM
1	1.392	22.21
2	.075	274.63
3	.025	298.05
4	.012	279.85
5	.020	242.81
6	.019	241.38
7	.013	319.02
8	.010	333.78
9	.008	162.59
10	.005	160.08

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.120	79.20	4.039	80.30	8.344	172.88	3.820	142.62	4.782	272.65
2	.698	205.62	.821	202.41	.716	228.78	.656	207.19	.739	185.70
3	.669	259.94	.752	255.46	.550	273.31	.624	265.41	.383	251.92
4	1.134	286.77	1.213	283.98	.957	291.54	.999	292.09	.948	286.84
5	.328	6.46	.246	336.46	.436	18.46	.326	22.22	.525	24.55
6	.958	281.47	1.080	274.70	.826	289.25	.869	288.61	.749	299.61
7	.496	348.22	.487	357.72	.415	8.02	.429	7.85	.388	31.80
8	.451	319.65	.433	315.88	.366	312.83	.384	326.61	.398	342.02
9	.098	307.62	.148	316.51	.152	320.14	.116	322.00	.056	348.54
10	.066	25.49	.056	332.83	.007	230.10	.131	11.48	.086	14.25

*** STABILITY PARAMETER

* XI = -.5260 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 60 ALPHA-MCL = 2.0 PDP RUN.PT 13.11
RUN 13 ALPHA-BAR = .5 Q-COMP = .32721
POINT 3 SIGMA = 90. V-REF = 200.63
COMPUTED FREQUENCY = 15.57, K = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-15.723	-4.307	-7.359	-2.573	-4.430	-2.044	-3.086	-1.690	-1.812	-1.230	-2.138	-.958	-1.982	-.611
2	.914	.195	.869	.305	.861	.350	.800	.457	.820	.661	.987	.254	.957	.388
3	-.406	-.326	-.374	-.345	-.331	-.351	-.350	-.391	-.280	-.447	-.326	-.463	-.306	-.464
4	-.163	.136	-.234	.173	-.261	.183	-.288	.139	-.374	.213	-.356	.232	-.354	.183
5	.009	-.194	.024	-.129	.050	-.107	.073	-.079	.071	-.090	.069	-.088	.049	-.070
6	.075	-.102	.049	-.052	.066	-.034	.060	-.016	.051	[illegible]	.045	-.031	.048	-.028
7	-.100	-.076	-.049	-.055	-.042	-.065	-.036	-.064	-.031	[illegible]	-.049	-.065	-.031	-.053
8	.054	.084	.043	.083	.038	.085	.026	.080	.025	.111	.016	.082	.023	.084
9	-.021	.061	-.018	.045	-.015	.031	-.018	.030	-.025	.031	-.033	.033	-.019	.022
10	.061	-.052	.045	-.031	.036	-.026	.035	-.024	.025	-.027	.042	-.021	.028	-.023

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.567	-.648	-1.200	-.892	-.941	-1.090	12.574	1.917	8.230	-.326	3.615	.060	2.396	-.303
2	.928	.430	.934	.476	.904	.420	.838	.130	.070	-.535	.766	.371	.768	.406
3	-.288	-.445	-.277	-.443	-.298	-.406	-.257	-.417	-.202	-.643	-.272	-.372	-.257	-.373
4	-.366	.161	-.382	.155	-.367	.179	-.466	.215	-.381	.201	-.390	.156	-.377	.108
5	.050	-.048	.054	-.037	.041	-.036	.163	.038	.104	-.061	.067	-.005	.054	-.001
6	.052	-.032	.053	-.032	.047	-.039	.021	-.018	.033	-.027	.034	-.033	.045	-.032
7	-.022	-.052	-.028	-.049	-.028	-.047	.011	-.025	-.018	-.044	-.021	-.034	-.015	-.053
8	.022	.084	.014	.068	.020	.071	.012	.048	.024	.051	.023	.047	.011	.063
9	-.024	.022	-.022	.021	-.022	.018	-.006	-.027	-.009	-.004	-.007	.014	-.017	.015
10	.032	-.023	.026	-.025	.025	-.023	-.037	-.015	-.016	-.016	-.013	-.025	.002	-.039

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.329	-.589	1.064	-.948	.006	-1.041	.073	-1.262	-.366	-1.177	-.181	-1.636
2	.720	.402	.882	.511	.820	.756	.864	.259	.825	.368	.770	.475
3	-.246	-.339	-.247	-.427	-.150	-.390	-.338	-.381	-.299	-.366	-.232	-.356
4	-.339	.138	-.420	.125	-.393	.105	-.406	.170	-.365	.181	-.360	.155
5	.030	-.023	.025	-.011	.018	.003	.027	-.034	.030	-.026	.034	-.017
6	.037	-.033	.048	-.033	.074	-.038	.057	-.029	.048	-.029	.044	-.041
7	-.026	-.040	-.035	-.059	-.020	-.060	-.050	-.045	-.032	-.057	-.029	-.049
8	.030	.049	.031	.065	.022	.055	.038	.062	.022	.054	.029	.063
9	-.012	.019	-.028	.027	-.012	.015	-.021	.035	-.027	.019	-.031	.011
10	.011	-.027	.013	-.032	.022	-.032	.018	-.026	.030	-.024	.032	-.022

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 60 ALPHA-MCL = 2.0 PDP RUN.PT 13.11
RUN 13 ALPHA-BAR = .5 Q-COMP = .32721
POINT 3 SIGMA = 90. V-REF = 200.63
COMPUTED FREQUENCY = 15.57, K = .1219

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	16.303	195.32	7.796	199.27	4.879	204.76	3.518	208.70	2.191	214.17	2.343	204.14	2.074	197.12
2	.935	[illegible]	.921	19.36	.929	22.15	.922	28.74	1.053	38.87	1.019	14.44	1.033	22.03
3	.520	[illegible]	.509	222.67	.482	226.68	.524	228.19	.527	237.90	.567	234.86	.556	236.55
4	.213	140.15	.291	143.51	.319	145.07	.320	154.35	.430	150.34	.424	146.92	.398	152.72
5	.194	271.11	.131	280.50	.118	295.13	.107	312.82	.115	308.49	.112	307.94	.086	304.98
6	.126	306.38	.072	313.77	.074	332.93	.062	344.92	.053	343.75	.055	325.53	.055	329.96
7	.125	217.22	.074	227.99	.078	236.99	.073	240.75	.079	247.31	.081	232.70	.062	239.92
8	.100	57.55	.093	62.43	.093	66.14	.084	71.99	.114	77.12	.083	79.11	.087	74.90
9	.084	104.40	.048	111.54	.035	115.55	.035	120.41	.040	128.95	.047	135.23	.029	130.06
10	.081	319.68	.054	325.32	.044	323.82	.042	325.76	.037	312.76	.047	333.33	.036	320.70

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.696	202.48	1.496	216.62	[illegible]	229.21	12.720	8.67	8.237	357.73	3.615	.95	2.415	352.79
2	1.023	24.86	1.049	27.02	.997	24.92	.848	8.82	.540	277.50	.851	25.88	.869	27.87
3	.530	237.05	.523	238.00	.504	233.69	.490	238.31	.674	252.56	.461	233.81	.453	235.44
4	.400	156.25	.412	157.89	.408	154.06	.513	155.30	.431	152.12	.420	158.18	.392	163.96
5	.069	316.44	.065	325.66	.054	318.99	.168	13.07	.120	329.82	.067	356.02	.054	358.57
6	.061	328.34	.061	328.79	.061	320.63	.028	318.40	.042	320.82	.048	316.04	.055	324.67
7	.056	247.25	.056	240.77	.055	239.54	.027	282.69	.047	247.60	.040	237.97	.054	254.54
8	.087	75.71	.070	78.05	.074	73.94	.050	75.62	.056	64.60	.052	63.94	.064	80.10
9	.033	138.37	.030	136.36	.029	[illegible]	.028	257.94	.010	205.09	.016	115.39	.023	137.59
10	.039	324.60	.036	315.72	.033	317.21	.040	202.26	.022	225.04	.028	243.35	.039	272.77

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.454	336.09	1.425	318.28	1.041	270.35	1.264	273.33	1.232	252.73	1.646	263.69
2	.824	29.17	1.020	30.09	1.115	42.70	.902	16.68	.903	24.02	.905	31.68
3	.419	234.06	.494	239.96	.418	248.90	.509	228.44	.473	230.73	.425	236.95
4	.366	157.86	.438	163.49	.407	165.04	.441	157.33	.407	153.69	.392	156.70
5	.037	322.82	.027	336.59	.018	10.52	.043	308.70	.040	318.27	.038	333.68
6	.049	318.15	.058	325.84	.084	332.63	.064	332.99	.056	329.20	.060	316.48
7	.048	237.73	.069	239.05	.063	251.24	.067	222.31	.066	240.45	.057	239.62
8	.058	59.00	.072	64.71	.060	[illegible]	.073	58.18	.068	70.63	.070	65.53
9	.023	122.35	.038	136.17	.019	128.35	.040	120.55	.032	145.12	.033	160.57
10	.029	292.30	.034	292.20	.039	303.93	.031	305.14	.039	321.31	.039	325.37

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	60	ALPHA-MCL =	2.0	PDP RUN.PT	13.11
RUN	13	ALPHA-PAR =	.5	Q-COMP =	.32721
POINT	3	SIGMA =	90.	V-REF =	200.63

COMPUTED FRECUENCY = 15.57, K = .1219

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	28.297	6.225	15.590	2.247	8.045	2.103	5.481	1.387	3.141	.641	3.202	.010	1.989	-.431
2	-.076	-.065	-.798	-.840	-.095	.021	-.033	-.051	-.100	-.259	-.105	.257	-.138	.368
3	.149	-.091	.172	-.298	.058	-.021	.093	.018	.034	.107	.079	.036	.156	.074
4	-.303	.078	-.147	.028	-.128	-.027	-.088	-.030	.035	-.075	-.065	-.107	-.039	-.077
5	.160	.232	.080	.068	.017	.102	-.019	.077	-.042	.067	-.044	.077	-.032	.074
6	-.054	.084	-.017	.025	-.032	.001	-.016	-.015	-.014	-.018	.003	-.002	.027	-.011
7	.110	.051	.031	.011	.021	.031	.021	.011	.005	.033	.014	.006	.011	-.007
8	-.041	-.036	-.019	-.032	-.015	-.038	-.015	-.017	.004	-.062	.015	-.017	-.000	-.028
9	.015	-.108	.009	-.049	.008	-.017	.001	-.015	.013	-.012	.006	-.006	.007	-.007
10	-.098	.037	-.061	.015	-.049	.001	-.033	-.015	-.014	.000	-.029	-.010	-.006	-.010

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.641	-.614	.835	-.285	.760	-.546
2	-.063	-.171	-.109	-.109	-.134	.055
3	-.049	.064	-.022	.077	.067	.050
4	-.040	.009	.017	.025	.007	-.024
5	-.023	.014	-.024	.010	-.007	.019
6	.005	.003	-.004	.003	-.003	-.003
7	-.028	.006	-.005	-.008	-.001	-.002
8	.017	-.023	.008	-.004	.008	-.007
9	.004	.013	-.005	-.002	-.009	-.007
10	-.014	-.003	.004	.001	.008	.000

N	CNREAL	CNIMAG
1	4.826	.640
2	-.140	-.037
3	.068	-.020
4	-.055	-.036
5	-.010	.064
6	-.006	-.001
7	.011	.011
8	-.000	-.027
9	.005	-.013
10	-.023	-.002

N	CMREAL	CMIMAG
1	1.247	.338
2	-.019	-.035
3	.008	-.016
4	-.014	.001
5	.006	.009
6	-.004	.002
7	.005	.003
8	-.003	-.003
9	.001	-.004
10	-.006	.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.809	-.945	.756	-1.192	-7.785	-2.771	-2.652	-1.844	.215	-8.923
2	1.158	.577	1.188	.723	1.147	.221	1.071	.534	.880	1.080
3	-.452	-.444	-.519	-.419	-.398	-.197	-.470	-.423	-.249	-.332
4	-.454	.240	-.468	.271	-.368	.227	-.398	.211	-.422	-.085
5	.094	-.057	.123	-.093	.013	-.166	.056	-.079	.186	.039
6	.084	-.060	.025	-.036	.031	-.017	.105	-.118	.047	-.050
7	-.020	-.073	.009	-.097	-.058	-.077	-.045	-.046	-.021	-.144
8	.059	.095	.046	.114	.005	.117	-.004	.112	.009	.152
9	-.021	.035	-.027	.089	.019	.063	-.033	.056	.018	.007
10	.011	-.031	.002	-.050	.053	-.039	.016	-.044	.014	-.056

*** STABILITY PARAMETER

*   *
* XI =   -.3385 *
*   *
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 60 ALPHA-MCL = 2.0 PDP RUN.PT 13.11
RUN 13 ALPHA-BAR = .5 Q-COMP = .32722
POINT 3 SIGMA = 90. V-REF = 200.63
COMPUTED FREQUENCY = 15.57, K = .1219

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	28.974	12.41	15.751	8.20	8.315	14.65	5.654	14.20	3.206	11.54	3.202	.18	2.035	347.78
2	.100	220.52	1.159	226.46	.097	167.37	.061	237.56	.278	248.85	.278	112.14	.393	110.50
3	.170	328.51	.344	300.07	.062	339.80	.094	11.03	.113	72.33	.067	24.49	.172	25.29
4	.319	165.53	.129	169.13	.131	191.71	.093	198.95	.083	295.04	.125	238.93	.087	243.13
5	.284	55.43	.105	40.38	.104	80.72	.080	103.65	.079	121.80	.089	119.57	.080	113.23
6	.100	123.09	.030	123.75	.032	178.84	.022	224.93	.023	231.50	.003	330.95	.029	337.73
7	.122	24.65	.033	19.61	.038	55.95	.024	28.03	.033	81.18	.015	22.42	.012	328.03
8	.055	221.10	.037	239.14	.041	248.93	.022	228.07	.062	273.90	.022	312.37	.028	269.69
9	.109	277.93	.050	280.25	.019	295.69	.015	272.93	.018	317.35	.008	310.95	.010	313.31
10	.105	159.42	.062	165.98	.049	178.97	.036	205.12	.014	178.00	.031	199.68	.011	239.26

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.752	339.50	.882	341.17	.935	324.31
2	.182	249.66	.154	224.94	.145	157.68
3	.081	127.41	.080	106.07	.083	36.82
4	.041	167.94	.030	56.91	.025	287.48
5	.027	148.81	.026	156.84	.020	110.27
6	.006	31.10	.005	144.36	.004	220.98
7	.029	167.75	.009	238.55	.002	241.50
8	.028	306.56	.009	331.16	.011	318.64
9	.014	73.11	.005	202.42	.012	218.12
10	.014	192.11	.004	14.75	.008	3.44

N	CN-MAG	PHIN
1	4.868	7.55
2	.145	194.67
3	.071	16.64
4	.066	213.69
5	.065	98.88
6	.006	192.62
7	.016	45.81
8	.027	269.09
9	.014	289.70
10	.023	185.92

N.	CM-MAG	PHIM
1	1.292	15.19
2	.040	241.47
3	.018	298.27
4	.014	174.66
5	.011	55.74
6	.009	157.23
7	.006	34.07
8	.004	220.38
9	.004	285.67
10	.006	171.68

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.244	310.59	1.411	302.40	8.263	199.59	3.230	214.82	8.926	271.38
2	1.294	26.49	1.391	31.35	1.168	10.92	1.196	26.50	1.393	50.83
3	.634	224.51	.667	218.88	.444	206.36	.632	221.98	.415	233.12
4	.513	152.11	.541	149.87	.432	148.31	.451	152.07	.430	191.35
5	.110	328.86	.154	322.78	.166	274.45	.097	305.31	.190	11.82
6	.105	324.46	.044	305.39	.035	331.88	.158	311.73	.068	313.20
7	.076	255.06	.097	275.52	.096	232.90	.064	225.26	.146	261.64
8	.112	57.87	.122	67.95	.117	87.56	.112	92.28	.152	86.59
9	.041	120.96	.093	106.94	.066	72.99	.065	120.99	.019	21.98
10	.033	289.95	.050	272.57	.066	323.74	.047	289.88	.058	284.34

*** STABILITY PARAMETER

* *
* XI = -.3385 *
* *
****

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 62 ALPHA-MCL = 2.0 PDP RUN.PT 13.13
RUN 13 ALPHA-BAR = .5 Q-COMP = .32737
POINT 5 SIGMA = 90. V-REF = 200.67
COMPUTED FREQUENCY = 19.25, K = .1507
FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-16.108	-2.510	-7.506	-.623	-4.557	-.040	-3.139	.349	-1.859	.907	-2.221	1.453	-2.011	1.779
2	.299	-.028	.015	.177	-.087	.240	-.163	.331	-.218	.556	-.138	.122	-.182	.248
3	-.182	-.321	-.091	-.290	-.061	-.309	-.083	-.361	.037	-.414	-.046	-.432	.002	-.426
4	.225	.060	.082	.051	.025	.048	.032	.016	-.046	.106	-.029	.057	-.060	.004
5	.079	-.017	.083	-.003	.100	.004	.119	.035	.142	.028	.135	.004	.115	.038
6	.015	-.034	-.001	-.045	-.008	-.059	-.027	-.065	-.031	-.040	-.034	-.060	-.030	-.068
7	-.002	.010	-.005	-.000	.006	.001	.014	.006	.024	.023	-.017	.025	-.009	.014
8	-.004	-.005	.017	-.005	.014	.002	.006	.017	.009	.035	.018	.019	.002	.022
9	.006	.009	-.018	.017	-.027	.010	-.022	.009	-.028	.012	-.035	.012	-.006	.018
10	-.006	-.024	-.007	-.026	-.004	-.024	-.004	-.028	-.003	-.045	-.007	-.031	.002	-.011

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.653	1.692	-1.333	1.512	-1.062	1.311	12.742	4.358	8.108	1.918	3.652	2.449	2.349	2.126
2	-.201	.273	-.219	.293	-.212	.287	-.569	.124	-1.276	-.353	-.419	.271	-.397	.243
3	-.013	-.421	.015	-.422	-.004	-.393	.166	-.259	.099	-.529	.060	-.287	.060	-.289
4	-.059	-.013	-.070	-.017	-.046	-.025	-.246	-.091	-.165	-.029	-.109	-.054	-.072	-.062
5	.117	.095	.130	.058	.110	.055	.167	.081	.131	.043	.131	.084	.110	.107
6	-.021	-.069	-.024	-.076	-.017	-.075	-.027	-.102	-.023	-.102	-.026	-.093	-.000	-.085
7	-.003	.008	-.006	.009	-.002	.002	.046	.030	.048	.031	.043	.039	.030	.049
8	-.008	.023	-.020	.020	-.016	.014	-.021	.037	-.013	.019	-.029	.018	-.042	-.001
9	-.011	.015	-.008	.018	-.010	.020	.014	.027	.004	.024	.024	.027	.022	.046
10	.001	-.011	-.003	-.001	-.002	-.005	-.017	-.002	-.018	-.006	-.021	.006	-.026	.006

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.270	1.628	.932	1.743	-.133	1.430	-.130	1.277	-.385	1.320	-.472	.849
2	-.334	.255	-.390	.324	-.243	.608	-.349	.054	-.295	.161	-.306	.279
3	.037	-.279	.059	-.382	.145	-.380	-.051	-.355	-.038	-.322	-.000	-.388
4	-.048	-.062	-.055	-.084	-.046	-.117	-.033	-.008	-.028	-.024	-.016	-.030
5	.097	.062	.122	.094	.084	.063	.118	.072	.107	.057	.108	.066
6	-.018	-.069	-.017	-.072	-.011	-.086	.006	-.072	-.008	-.059	-.011	-.063
7	.021	.026	.033	.036	-.014	.012	.027	.016	.001	.011	.001	.014
8	-.016	.010	-.029	.013	-.019	.026	-.014	-.004	-.015	.002	-.014	.005
9	-.001	.031	.002	.040	-.000	.032	-.015	.031	-.021	.029	-.021	.027
10	-.020	-.008	-.022	-.017	-.022	-.014	-.023	-.019	-.018	-.017	-.010	-.020

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 62 ALPHA-MCL = 2.0 PDP RUN.PT 13.13
RUN 13 ALPHA-BAR = .5 Q-COMP = .32737
POINT 5 SIGMA = 90. V-REF = 200.67
COMPUTED FREQUENCY = 19.25, K = .1507

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	16.303	168.86	7.532	184.75	4.557	180.51	3.158	173.65	2.069	154.00	2.654	146.80	2.685	138.49
2	.300	354.73	.178	85.24	.256	109.87	.369	116.22	.598	111.40	.184	138.69	.307	126.30
3	.370	240.41	.304	252.54	.315	258.86	.372	256.24	.416	275.08	.435	263.92	.426	270.28
4	.233	14.91	.096	31.89	.054	62.46	.035	26.57	.115	113.44	.064	116.87	.060	176.23
5	.081	347.66	.083	357.61	.100	2.25	.124	16.39	.145	11.32	.135	1.53	.122	18.33
6	.037	293.92	.045	268.57	.059	262.25	.070	247.53	.051	231.64	.069	240.36	.074	246.50
7	.010	100.08	.005	181.93	.006	13.33	.015	24.72	.033	44.63	.031	124.41	.017	122.77
8	.007	235.39	.018	343.37	.014	9.80	.018	70.78	.036	76.24	.026	46.85	.022	85.99
9	.011	54.18	.025	136.97	.026	30.01	.023	157.52	.030	156.92	.037	160.27	.019	109.16
10	.025	252.14	.027	254.00	.024	259.91	.029	261.74	.045	266.84	.032	257.42	.011	278.36

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.365	134.32	2.016	131.40	1.688	129.01	13.467	18.88	8.332	13.31	4.398	33.84	3.168	42.15
2	.339	126.35	.365	126.74	.357	126.49	.582	167.71	1.324	195.48	.499	147.14	.465	148.54
3	.421	268.29	.422	271.97	.394	269.45	.307	302.61	.538	280.60	.293	281.87	.295	281.76
4	.060	192.72	.072	193.46	.052	208.90	.262	200.38	.168	189.94	.122	206.38	.095	220.90
5	.125	21.26	.142	24.09	.123	26.36	.185	25.85	.138	18.24	.155	32.64	.154	44.28
6	.071	252.75	.080	252.73	.077	257.11	.106	254.98	.105	257.21	.096	254.55	.085	269.83
7	.008	111.19	.011	125.04	.002	132.00	.055	32.93	.057	33.05	.058	42.20	.057	58.78
8	.024	108.68	.029	135.35	.021	137.11	.043	119.25	.023	123.30	.034	147.77	.042	181.44
9	.019	127.22	.020	113.22	.022	115.24	.030	61.53	.025	80.25	.036	49.19	.051	64.46
10	.011	277.35	.003	206.42	.006	249.48	.017	186.15	.019	199.26	.022	163.19	.027	166.93

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.064	52.04	1.977	61.88	1.436	95.33	1.283	95.83	1.375	106.24	.971	119.06
2	.420	142.57	.507	140.31	.655	111.76	.353	171.27	.336	151.32	.414	137.65
3	.281	277.66	.367	278.82	.407	290.93	.359	261.76	.325	263.23	.388	269.94
4	.079	232.21	.100	236.70	.126	248.37	.034	[illegible]	.037	220.34	.034	242.09
5	.115	32.71	.154	57.57	.105	37.03	.138	[illegible]	.121	27.92	.127	31.29
6	.072	255.28	.074	257.07	.087	262.94	.072	[illegible]	.059	262.52	.064	260.19
7	.033	50.86	.049	47.48	.018	140.73	.031	30.26	.011	83.40	.014	83.90
8	.018	148.66	.032	154.97	.032	125.59	.015	196.26	.016	172.13	.015	155.99
9	.031	92.58	.040	87.05	.032	90.68	.034	116.47	.035	125.70	.034	128.71
10	.022	200.33	.028	217.86	.026	211.78	.030	219.30	.025	224.28	.023	242.56

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 62 ALPHA-MCL = 2.0 PDP RUN.PT 13.13
RUN 13 ALPHA-BAR = .5 Q-COMP = .32737
POINT 5 SIGMA = 90. V-REF = 200.67
COMPUTED FRECUENCY = 19.25, K = .1507

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	29.850	6.868	15.614	2.541	8.209	2.489	5.488	1.776	3.129	.721	3.153	.290	1.877	-.350
2	-.868	.151	-1.291	-.531	-.332	.030	-.234	-.088	-.116	-.301	-.252	.202	-.061	.361
3	.348	.062	.190	-.239	.121	.022	.149	.072	.001	.136	.105	.050	.143	.046
4	-.471	-.151	-.247	-.080	-.135	-.103	-.103	-.078	-.003	-.168	-.026	-.141	.014	-.121
5	.088	.098	.048	.047	.031	.080	-.009	.072	-.045	.034	-.013	.090	-.031	.025
6	-.043	-.068	-.022	-.057	-.016	-.034	.027	-.020	.013	-.030	.018	-.012	.019	-.018
7	.048	.020	.053	.031	.038	.039	.015	.042	-.003	.002	.050	.011	-.005	-.002
8	-.017	.043	-.030	.024	-.043	.016	-.048	-.018	-.024	-.026	-.047	-.006	-.020	.004
9	.008	.018	.022	.007	.050	.012	.044	.037	.027	.019	.037	.027	.006	.013
10	-.009	.022	-.010	.019	-.017	.031	-.022	.034	-.018	.038	-.015	.014	-.023	-.003

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.522	-.415	.949	-.193	.590	-.462
2	-.148	-.219	-.076	-.132	-.094	-.008
3	-.039	.066	-.053	.100	.003	.006
4	.026	.005	.042	-.007	.030	-.005
5	.001	.027	-.023	-.001	-.002	.011
6	.027	-.004	.016	.017	.006	.012
7	.030	.008	.007	.002	.003	.012
8	-.006	-.027	.005	-.018	.002	-.008
9	-.004	.016	-.013	.011	-.012	.006
10	-.025	-.008	-.015	-.016	-.008	-.015

N	CNREAL	CNIMAG
1	4.819	.859
2	-.263	-.038
3	.080	.040
4	-.053	-.088
5	-.005	.047
6	.009	-.018
7	.020	.015
8	-.025	-.006
9	.020	.018
10	-.017	.013

N	CMREAL	CMIMAG
1	1.272	.370
2	-.061	-.019
3	.018	-.006
4	-.025	-.010
5	.004	.006
6	-.003	-.005
7	.003	.003
8	-.004	.002
9	.005	.001
10	-.000	.005

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.740	2.152	.691	1.969	-8.008	-.140	-2.748	.765	.034	-6.483
2	-.330	.378	-.307	.387	-.042	.052	-.206	.324	-.364	.647
3	.037	-.367	.058	-.435	-.048	-.356	-.014	-.419	.081	-.204
4	-.086	-.012	-.079	-.088	.055	.143	.012	.031	-.069	-.045
5	.160	.041	.118	.044	.178	-.009	.132	.055	.088	.207
6	-.031	-.095	-.035	-.085	-.018	-.014	-.023	-.075	.015	-.101
7	.045	.019	.043	.013	.021	.004	.059	.005	.119	.024
8	.009	.004	.002	.029	.018	.018	-.011	.036	-.060	-.010
9	-.004	.029	.026	.029	-.016	.025	-.000	.009	.020	-.036
10	-.034	-.014	-.013	.005	-.002	-.029	-.009	-.024	-.026	-.005

*** STABILITY PARAMETER

XI = -.3703

OCUT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	62	ALPHA-MCL = 2.0	POP RUN.PT	13.13
RUN	13	ALPHA-BAR = .5	Q-COMP =	.32737
POINT	5	SIGMA = 90.	V-REF =	200.67

COMPUTED FREQUENCY = 19.25, K = .1507

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	29.657	13.39	15.820	9.24	8.578	16.87	5.768	17.94	3.211	12.97	3.166	5.25	1.909	349.45
2	.881	170.10	1.396	202.35	.334	174.79	.250	200.74	.322	248.99	.323	141.24	.366	99.56
3	.354	10.15	.305	308.58	.123	10.40	.165	25.95	.136	89.74	.117	25.35	.150	17.97
4	.494	197.81	.260	197.91	.169	217.29	.129	217.01	.168	269.10	.143	259.50	.122	276.42
5	.132	48.10	.067	44.02	.086	68.62	.073	96.94	.057	143.50	.091	98.38	.040	141.40
6	.080	237.90	.061	248.94	.038	242.53	.033	322.70	.032	294.05	.021	325.37	.026	316.91
7	.052	22.58	.061	30.60	.053	45.25	.045	69.89	.004	141.90	.052	12.31	.006	206.24
8	.046	111.61	.038	140.70	.046	159.38	.051	201.04	.035	226.62	.047	187.14	.021	168.46
9	.020	65.59	.023	18.38	.053	19.46	.057	40.38	.033	35.96	.046	36.62	.015	66.18
10	.024	112.05	.022	115.45	.035	119.21	.041	122.27	.042	115.44	.021	137.25	.024	186.76

X =	.774		.860		.910							
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	N	CN-MAG	PHIN	N	CM-MAG	PHIM
1	1.578	344.74	.968	348.53	.750	321.93	1	4.895	10.10	1	1.325	16.23
2	.264	235.96	.152	239.90	.094	185.02	2	.266	188.27	2	.064	197.33
3	.076	120.63	.113	117.83	.007	59.76	3	.090	26.57	3	.019	341.13
4	.026	10.86	.042	350.48	.030	351.15	4	.102	238.98	4	.027	201.55
5	.027	88.41	.023	183.67	.011	101.41	5	.047	96.28	5	.008	57.06
6	.028	351.01	.023	46.99	.014	62.79	6	.021	297.19	6	.006	242.93
7	.031	14.84	.008	15.25	.012	75.71	7	.025	36.91	7	.004	47.67
8	.028	256.57	.019	285.29	.009	282.34	8	.026	193.18	8	.005	148.46
9	.015	103.93	.017	140.57	.013	151.85	9	.027	42.95	9	.005	14.82
10	.026	197.59	.022	226.72	.017	240.26	10	.021	142.19	10	.005	91.91

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.276	71.04	2.087	70.67	8.009	181.00	2.853	164.45	5.483	270.30
2	.502	131.14	.494	128.39	.067	128.74	.384	122.51	.743	119.37
3	.369	275.79	.439	277.58	.359	262.26	.420	268.12	.219	291.57
4	.087	188.06	.118	227.93	.153	69.09	.034	69.10	.082	212.81
5	.165	14.45	.126	20.40	.178	356.94	.144	22.61	.225	66.92
6	.100	251.90	.092	247.85	.023	216.64	.078	253.12	.102	278.62
7	.048	22.60	.045	16.78	.021	11.32	.060	4.72	.121	11.58
8	.010	26.77	.029	85.85	.025	44.68	.038	106.21	.061	189.42
9	.030	97.60	.039	47.75	.029	123.22	.009	91.54	.041	299.44
10	.037	203.06	.014	157.65	.029	266.84	.025	249.68	.026	192.12

*** STABILITY PARAMETER

XI = -.3703

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 77	ALPHA-MCL = 2.0	PDP RUN.PT 16.04	
RUN 16	ALPHA-RAP = .5	Q-COMP = .32905	
POINT 1	SIGMA = 135.	V-REF = 201.23	
	COMPUTED FREQUENCY = 9.18,	K = .0717	

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.944	-2.287	-8.693	-.631	-5.340	-.172	-3.772	.209	-2.771	.725	-3.608	1.112	-3.546	1.403
2	.215	.438	.168	.579	.150	.572	.119	.826	.093	.348	.213	.501	.181	.620
3	-1.579	-.490	-1.842	-.391	-1.910	-.350	-2.107	-.419	-1.945	-.338	-2.176	-.371	-2.151	-.355
4	-.320	-.209	-.372	-.253	-.396	-.302	-.369	-.409	-.455	-.251	-.408	-.361	-.409	-.374
5	-.570	.040	-.547	.041	-.509	.031	-.485	.040	-.584	.024	-.543	.026	-.528	.055
6	.023	.177	.059	.195	.045	.204	.031	.236	.034	.252	.026	.241	.058	.237
7	-.003	-.129	-.032	-.218	-.044	-.254	-.013	-.283	.003	-.310	.023	-.302	.023	-.313
8	-.019	.086	.007	.102	.006	.090	.007	.101	.004	.110	.015	.116	.019	.137
9	.046	.190	.032	.149	.017	.130	.008	.135	.017	.140	-.006	.128	-.007	.145
10	-.012	.028	-.002	.032	.011	.028	-.000	.026	.003	.043	-.008	.041	-.007	.047

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.995	1.285	-2.382	1.081	-1.881	.940	15.760	3.266	11.441	1.267	4.603	1.631	2.900	1.344
2	.169	.658	.169	.680	.202	.657	.299	.096	-.374	-.648	.152	.540	.130	.587
3	-2.171	-.391	-2.191	-.438	-2.202	-.387	-2.298	-.141	-1.960	-.448	-2.116	-.308	-2.099	-.367
4	-.395	-.371	-.392	-.380	-.391	-.372	-.478	-.335	-.227	-.249	-.416	-.333	-.387	-.355
5	-.508	.045	-.523	.050	-.508	.092	-.493	.101	-.474	.044	-.513	.068	-.493	.039
6	.045	.244	.042	.258	.064	.234	.082	.271	.061	.254	.033	.248	.012	.246
7	.057	-.301	.068	-.299	.074	-.285	-.121	-.397	-.060	-.343	-.026	-.325	.018	-.310
8	.009	.128	.000	.133	-.005	.128	.038	.036	.008	.069	.006	.086	-.013	.093
9	-.009	.138	-.008	.133	-.012	.126	.037	.026	.031	.062	.024	.087	.008	.093
10	-.010	.041	-.010	.042	-.017	.040	.029	.015	.025	.022	.014	.021	.009	.026

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.457	.951	.896	.959	-.539	.680	-.152	.649	-.683	.709	-.233	.052
2	.107	.610	.137	.793	.109	.997	.134	.412	.057	.664	.019	.540
3	-1.901	-.355	-2.310	-.485	-2.156	-.452	-2.233	-.478	-2.126	-.447	-2.133	-.419
4	-.375	-.320	-.433	-.388	-.399	-.224	-.389	-.429	-.350	-.362	-.419	-.361
5	-.445	.064	-.525	.057	-.413	.053	-.562	.101	-.503	.103	-.468	.062
6	.036	.216	.022	.265	.028	.235	.022	.280	.027	.265	.055	.253
7	.015	-.283	.043	-.328	.104	-.288	.054	-.290	.044	-.263	.054	-.266
8	.006	.102	-.014	.122	-.001	.070	-.006	.149	-.007	.126	.031	.115
9	.010	.102	.002	.131	.021	.103	.007	.127	-.001	.124	.018	.111
10	.002	.029	.005	.040	.006	-.001	-.002	.040	-.005	.037	-.020	.027

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 77 ALPHA-MCL = 2.0 PDP RUN.PT 16.04
RUN 16 ALPHA-BAR = .5 Q-COMP = .32905
POINT 1 SIGMA = 135. V-REF = 201.23
COMPUTED FREQUENCY = 9.18, K = .0717

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.081	186.88	8.715	184.15	5.343	181.84	3.778	176.84	2.064	165.34	3.775	162.87	3.814	158.41
2	.488	63.85	.603	73.84	.591	75.27	.835	81.82	.653	63.77	.544	67.01	.645	73.75
3	1.653	197.24	1.883	191.98	1.942	190.38	2.149	191.25	1.974	189.85	2.207	189.68	2.180	189.36
4	.382	213.13	.450	214.23	.498	217.33	.551	227.93	.520	208.87	.545	221.54	.554	222.48
5	.571	175.95	.548	175.70	.510	176.54	.487	175.25	.585	177.66	.544	177.21	.531	174.01
6	.179	82.60	.204	73.17	.209	77.50	.238	82.41	.254	82.21	.242	83.76	.244	76.19
7	.129	268.57	.220	261.68	.257	260.20	.283	267.46	.310	270.59	.303	274.34	.313	274.29
8	.088	102.38	.102	85.96	.090	86.07	.101	86.11	.111	87.68	.117	82.54	.138	81.97
9	.196	76.35	.152	77.80	.131	82.64	.135	86.51	.141	83.00	.128	92.87	.145	92.60
10	.030	112.55	.032	93.89	.030	69.32	.026	90.26	.043	86.29	.042	101.49	.048	98.41

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.259	156.78	2.616	155.59	2.103	153.44	16.095	11.71	11.511	6.32	4.883	19.51	3.196	24.86
2	.680	75.64	.700	76.04	.688	72.90	.314	17.68	.748	240.03	.561	74.30	.601	77.48
3	2.206	190.20	2.235	191.30	2.236	189.96	2.302	183.50	2.011	192.87	2.138	188.27	2.131	189.91
4	.542	223.23	.546	224.11	.540	223.56	.584	215.05	.338	227.63	.533	218.73	.526	222.54
5	.510	174.92	.525	174.54	.516	169.70	.504	168.40	.476	17[illegible].68	.517	172.44	.494	175.45
6	.248	79.54	.261	80.84	.243	74.79	.284	73.11	.261	76.39	.251	82.34	.246	87.13
7	.306	280.68	.307	282.73	.294	284.48	.415	253.11	.348	260.06	.326	265.42	.311	273.40
8	.128	86.07	.133	89.82	.128	[illegible]2.38	.053	43.77	.070	83.43	.067	85.95	.094	97.84
9	.139	93.89	.133	93.56	.127	[illegible]5.28	.045	34.84	.069	63.62	.090	74.74	.093	85.09
10	.042	103.46	.043	103.08	.044	113.34	.032	27.83	.033	41.98	.025	55.61	.028	71.65

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.740	33.12	1.313	46.95	.866	128.40	.667	103.16	.[illegible]85	133.95	.239	167.50
2	.619	80.03	.805	60.21	1.003	83.76	.433	71.97	.666	85.13	.540	87.94
3	1.934	190.56	2.360	191.86	2.203	191.84	2.283	192.09	2.173	191.87	2.173	191.10
4	.493	220.42	.581	221.86	.458	209.26	.579	227.77	.503	225.98	.553	220.73
5	.450	171.83	.528	173.85	.416	172.74	.571	169.82	.514	168.48	.472	172.44
6	.219	80.60	.266	85.36	.237	83.12	.281	85.48	.267	84.13	.259	77.70
7	.283	272.99	.331	277.39	.306	289.84	.295	280.57	.266	279.57	.271	281.38
8	.103	86.37	.123	96.63	.070	90.41	.149	92.19	.126	93.01	.115	89.58
9	.103	84.31	.131	89.34	.105	78.42	.127	86.97	.124	90.31	.112	80.89
10	.029	86.3[illegible]	.040	82.95	.006	349.39	.040	92.67	.038	97.61	.034	126.84

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 77	ALPHA-MCL = 2.0	PDP RUN.PT 16.04	
RUN 16	ALPHA-BAR = .5	Q-COMP = .32905	
POINT 1	SIGMA = 135.	V-REF = 201.23	
	COMPUTED FREQUENCY = 9.18,	K = .0717	

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	34.704	5.553	20.133	1.898	9.943	1.802	6.673	1.135	4.228	.226	4.534	-.153	3.007	-.723
2	.083	-.342	-.541	-1.227	.001	-.032	.012	-.240	.015	-.238	-.076	.292	-.072	.377
3	-.719	.349	-.118	-.057	-.206	.042	.008	.053	.043	-.017	-.134	-.114	-.005	-.098
4	-.158	-.126	.145	.004	-.020	-.032	-.018	.054	.080	-.069	-.025	-.027	.009	.151
5	.076	.061	.073	.003	-.004	.037	-.007	-.001	.139	.040	.018	.030	.115	-.003
6	.059	.094	.002	.059	-.012	.044	-.019	.010	.001	-.036	-.005	.024	-.030	-.001
7	-.117	-.268	-.028	-.125	.018	-.072	.031	-.028	.012	.028	.020	-.026	.080	.025
8	.057	-.050	.001	-.032	-.004	-.004	-.020	-.008	.002	-.008	-.029	.005	-.020	-.067
9	-.009	-.165	-.001	-.086	.007	-.043	-.000	-.042	-.007	-.038	.008	.004	.028	-.042
10	.040	-.013	.027	-.009	.004	-.007	.009	.001	-.001	-.023	.013	-.001	.013	-.049

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.843	-.636	1.699	-.373	1.648	-.889
2	-.034	-.246	-.112	-.016	-.183	-.118
3	-.061	-.067	.065	-.009	.070	-.032
4	.006	-.057	.042	.018	-.028	.011
5	-.054	.056	.020	.053	.040	-.030
6	-.023	.036	-.014	.038	-.009	.019
7	-.003	.011	-.023	.037	-.020	.019
8	-.014	.021	-.007	-.007	.006	-.012
9	.016	-.011	.008	-.009	.029	-.016
10	.006	-.001	.005	-.005	-.003	-.013

N	CNREAL	CNIMAG
1	6.378	.381
2	-.076	-.110
3	-.059	-.024
4	.010	.002
5	.041	.021
6	-.010	.017
7	.011	-.019
8	-.008	-.013
9	.009	-.033
10	.009	-.011

N	CMREAL	CMIMAG
1	1.490	.316
2	-.003	-.051
3	-.022	.013
4	.002	-.004
5	.002	.002
6	.002	.003
7	-.001	-.013
8	.001	-.001
9	-.002	-.006
10	.001	.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.683	1.414	1.544	1.480	-9.247	-.494	-3.525	.419	4.838	-5.794
2	.221	.793	.151	1.075	.298	.493	.171	.781	-.388	.858
3	-2.840	-.402	-2.947	-.451	-2.375	-.544	-2.476	-.485	-2.365	-.888
4	-.561	-.399	-.607	-.371	-.535	-.357	-.486	-.423	-.418	-.477
5	-.765	.118	-.693	.256	-.803	-.028	-.067	.041	-.592	.007
6	.055	.349	.162	.463	.016	.215	.022	.310	-.065	.240
7	-.094	-.391	-.177	-.295	-.020	-.351	-.016	-.351	.075	-.269
8	-.018	.098	.017	.102	.007	.145	-.013	.127	-.023	-.046
9	.025	.165	.006	.235	.039	.163	-.001	.170	-.009	.083
10	-.002	.017	-.028	.042	.018	.063	.006	.052	.098	-.033

*** STABILITY PARAMETER

* XI = -.3158 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCNT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 77 ALPHA-MCL = 2.0 PDP RUN.PT 16.04
RUN 16 ALPHA-BAR = .5 Q-COMP = .32905
POINT 1 SIGMA = 135. V-REF = 201.23
COMPUTED FREQUENCY = 9.16, K = .0717

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.146	9.00	20.223	5.39	10.105	10.27	6.768	9.66	4.234	3.06	4.506	358.06	3.093	346.48
2	.152	283.71	1.341	246.19	.032	272.53	.240	272.76	.238	273.52	.302	104.54	.384	100.73
3	.799	154.08	.131	205.77	.210	168.41	.053	80.99	.047	338.54	.176	220.37	.098	267.25
4	[illegible]	218.67	.145	1.57	.037	237.62	.057	108.51	.105	319.41	.037	226.60	.151	86.42
5	.098	38.68	.073	2.34	.037	95.79	.007	188.69	.145	16.04	.035	59.08	.115	356.58
6	.111	57.76	.059	87.02	.046	104.90	.021	152.78	.036	272.13	.025	101.25	.030	182.61
7	.293	246.37	.128	257.28	.074	283.96	.042	318.21	.030	67.53	.033	307.16	.084	17.09
8	.076	318.86	.032	271.41	.004	269.23	.021	201.81	.008	283.95	.030	169.47	.070	253.59
9	.165	266.73	.086	269.15	.043	279.23	.042	269.57	.038	259.53	.009	25.24	.050	303.57
10	.042	341.97	.029	340.77	.008	295.64	.009	5.49	.013	266.09	.013	356.10	.050	285.36

X =	.774		.850		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.914	347.39	1.740	347.63	1.873	331.67
2	.249	262.04	.114	188.18	.217	212.76
3	.107	234.94	.066	352.25	.077	335.55
4	.058	275.97	.046	22.98	.030	157.79
5	.077	133.97	.056	69.41	.050	323.02
6	.042	122.78	.016	151.45	.021	115.00
7	.012	103.28	.043	122.47	.027	137.00
8	.026	124.24	.010	225.93	.013	297.07
9	.020	325.34	.012	310.66	.033	331.56
10	.008	354.93	.007	314.63	.014	257.84

N	CN-MAG	PHIN
1	6.306	3.42
2	.134	235.31
3	.064	202.41
4	.010	10.31
5	.046	26.63
6	.019	120.01
7	.022	299.54
8	.015	238.34
9	.034	284.34
10	.014	307.84

N	CM-MAG	PHIM
1	1.523	11.96
2	.051	267.03
3	.026	150.59
4	.005	294.98
5	.003	34.86
6	.003	54.69
7	.013	264.16
8	.001	322.09
9	.007	249.99
10	.001	28.01

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.199	40.04	2.138	43.79	9.260	183.06	3.550	173.21	7.549	309.86
2	.823	74.42	1.086	81.99	.576	58.84	.800	77.64	.942	114.31
3	2.868	188.05	2.981	188.70	2.436	192.91	2.523	191.08	2.526	200.57
4	.682	214.77	.712	211.44	.643	213.71	.644	221.01	.634	228.81
5	.774	171.24	.739	159.77	.803	181.99	.669	176.48	.592	179.36
6	.353	80.80	.491	70.68	.216	85.86	.311	85.90	.248	105.26
7	.402	256.49	.344	239.04	.351	266.69	.352	267.33	.279	285.51
8	.099	100.36	.104	80.68	.145	87.17	.127	95.81	.051	243.79
9	.167	81.46	.235	88.61	.168	76.47	.170	90.20	.084	95.91
10	.018	96.36	.051	123.95	.066	74.11	.052	83.90	.104	341.62

*** STABILITY PARAMETER

* XI = -.3158 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 79 ALPHA-MCL = 2.0 PDP RUN.PT 16.07
RUN 16 ALPHA-PAR = .5 Q-COMP = .32333
POINT 3 SIGMA = 135. V-REF = 199.44
COMPUTED FRECUENCY = 15.58, K = .1227

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.439	-1.838	-7.069	-1.005	-3.620	-.843	-1.945	-.634	-.787	-.419	-1.551	-.016	-1.409	.274
2	.754	.004	.603	.249	.546	.323	.501	.586	.526	.546	.521	.188	.528	.297
3	.106	-.381	.179	-.263	.188	-.263	.044	-.252	.375	-.251	.307	-.223	.274	-.197
4	.059	-.038	.049	-.032	.045	-.032	.038	-.142	.059	.061	.022	-.052	.014	-.049
5	.045	.008	.116	.005	.139	.015	.177	.032	.132	.064	.139	.095	.150	.106
6	-.016	-.141	-.003	-.100	-.005	-.077	.008	-.071	.023	-.076	.027	-.092	.025	-.070
7	-.201	-.052	-.124	-.045	-.112	-.049	-.095	-.068	-.089	-.062	-.105	-.046	-.077	-.054
8	.049	.038	.039	.036	.041	-.007	.049	-.002	.043	-.012	.044	-.006	.047	-.013
9	.016	-.128	.008	-.063	.000	-.055	-.010	-.047	.008	-.051	-.000	-.061	-.014	-.053
10	-.053	.078	-.042	.056	-.038	.051	-.045	.040	-.050	.040	-.059	.043	-.060	.043

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.298	.192	-.293	-.000	.185	-.155	17.688	1.390	12.722	-.875	6.486	.598	4.844	.412
2	.515	.363	.508	.379	.504	.340	.300	-.057	-.569	-.380	.396	.315	.389	.339
3	.235	-.173	.231	-.174	.205	-.174	.331	-.202	.252	-.536	.227	-.244	.232	-.227
4	.014	-.072	.022	-.062	.012	-.070	-.019	-.036	.115	-.082	.027	-.049	.030	-.053
5	.118	.128	.117	.141	.113	.132	.206	-.004	.151	-.020	.154	.049	.135	.089
6	.024	-.070	.023	-.063	.024	-.056	.026	.005	-.002	-.016	.005	-.026	.015	-.032
7	-.079	-.057	-.075	-.052	-.066	-.047	.025	-.056	-.020	-.048	-.038	-.057	-.037	-.068
8	.035	-.019	.032	-.018	.030	-.016	-.007	-.063	.007	-.053	.020	-.031	.029	-.017
9	-.014	-.055	-.010	-.051	-.002	-.050	-.017	.028	-.022	.009	-.008	-.023	.002	-.039
10	-.055	.034	-.059	.033	-.051	.030	-.007	-.021	-.007	-.004	-.027	.012	-.041	.012

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	3.221	.195	3.097	.054	1.450	.071	1.879	-.152	1.349	-.155	1.515	-.799
2	.378	.384	.502	.505	.566	.704	.397	.137	.450	.250	.301	.346
3	.233	-.218	.300	-.287	.204	-.195	.188	-.225	.187	-.209	.195	-.177
4	.017	-.069	.031	-.087	.088	-.041	.014	-.106	.015	-.068	.050	-.095
5	.150	.080	.169	.102	.132	.073	.119	.157	.092	.136	.109	.143
6	.005	-.049	-.010	-.053	-.000	-.040	.017	-.030	.007	-.040	.016	-.047
7	-.052	-.040	-.067	-.052	-.055	-.041	-.056	-.044	-.057	-.047	-.061	-.043
8	.025	-.019	.020	-.023	.017	-.007	.033	-.024	.031	-.021	.023	-.009
9	-.034	-.034	-.007	-.042	-.003	-.039	-.000	-.046	-.005	-.047	-.004	-.053
10	-.031	.017	-.045	.019	-.046	.018	-.048	.026	-.048	.014	-.048	.015

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 79 ALPHA-MCL = 2.0 PDP RUN.PT 16.07
RUN 16 ALPHA-BAR = .5 G-COMP = .32333
POINT 3 SIGMA = 135. T-REF = 199.44
COMPUTED FREQUENCY = 15.58, K = .1227

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	17.536	186.02	7.140	188.09	3.716	193.11	2.046	198.06	.891	208.03	1.552	180.61	1.435	168.99
2	.754	.29	.652	22.42	.634	30.65	.771	49.49	.759	46.05	.554	19.87	.606	29.40
3	.395	285.50	.318	304.25	.323	305.54	.255	279.88	.451	326.21	.380	324.04	.337	324.23
4	.070	326.79	.059	326.57	.055	324.80	.147	284.81	.085	46.02	.057	292.93	.051	285.53
5	.046	9.91	.116	2.44	.140	6.02	.179	10.12	.157	32.48	.168	34.29	.184	35.18
6	.142	263.57	.100	268.31	.077	265.93	.072	276.33	.050	286.64	.096	286.23	.074	289.68
7	.208	194.46	.132	199.86	.123	203.67	.116	215.50	.108	214.68	.115	203.95	.094	214.79
8	.062	38.13	.040	8.86	.042	350.62	.050	358.22	.045	344.87	.045	352.48	.049	343.98
9	.129	277.11	.064	276.78	.055	270.24	.048	258.52	.052	278.92	.061	269.97	.055	255.70
10	.094	124.06	.070	127.09	.064	126.73	.060	138.16	.064	141.25	.073	144.09	.074	144.17

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.918	167.94	.293	180.05	.241	319.90	17.742	4.49	12.752	356.07	6.513	5.27	4.862	4.86
2	.630	35.17	.634	36.75	.608	34.01	.305	349.27	.684	213.74	.506	38.47	.516	41.08
3	.291	323.68	.289	323.03	.268	319.68	.388	328.64	.592	295.44	.333	312.97	.324	315.58
4	.073	281.25	.066	289.50	.071	280.11	.041	242.44	.141	324.40	.055	298.82	.061	299.43
5	.174	47.41	.183	50.13	.174	49.38	.206	358.87	.152	352.28	.161	17.77	.161	33.31
6	.074	288.62	.067	290.05	.061	292.89	.027	11.53	.016	261.92	.026	281.56	.036	295.15
7	.098	215.98	.091	214.71	.081	215.34	.061	293.61	.052	247.01	.068	236.06	.077	241.17
8	.040	331.13	.037	330.15	.034	332.11	.064	263.52	.054	277.31	.037	302.43	.034	329.71
9	.057	255.44	.052	258.85	.050	267.56	.033	121.53	.023	157.42	.024	251.92	.039	272.25
10	.065	148.03	.068	151.13	.059	150.04	.023	251.39	.008	209.81	.030	155.34	.042	163.91

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.227	3.46	3.097	1.00	1.452	2.81	1.885	355.36	1.358	353.45	1.713	332.19
2	.538	45.47	.712	45.16	.904	51.08	.420	19.02	.515	29.05	.459	48.94
3	.320	316.90	.415	316.29	.283	316.25	.293	309.91	.280	311.86	.264	317.77
4	.071	283.86	.092	289.49	.097	335.17	.107	277.60	.070	282.30	.138	297.84
5	.170	28.10	.198	31.12	.151	28.84	.197	52.95	.165	55.89	.180	52.78
6	.050	276.35	.054	259.40	.040	269.33	.034	300.18	.041	280.32	.050	289.29
7	.066	217.46	.085	217.53	.069	216.69	.071	218.15	.074	219.81	.075	215.18
8	.031	323.86	.030	310.33	.019	338.47	.041	324.03	.037	326.14	.024	337.91
9	.034	262.56	.043	260.37	.039	266.08	.046	269.66	.047	264.32	.053	266.17
10	.035	151.96	.049	156.80	.050	158.77	.055	151.57	.050	163.41	.050	162.76

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 79 ALPHA-MCL = 2.0 PDP RUN.PT 16.07
RUN 16 ALPHA-PAR = .5 Q-COMP = .32333
POINT 3 SIGMA = 135. V-REF = 199.44
COMPUTED FREQUENCY = 15.58, K = .1227

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	35.127	3.228	19.792	.130	10.105	1.441	6.789	1.046	4.007	.614	4.648	.071	2.859	-.203
2	-.054	-.061	-1.172	-.629	-.150	-.009	-.112	-.247	-.149	-.162	-.019	.316	.041	.406
3	.225	.179	.073	-.273	.039	.019	.188	.025	-.142	.033	-.008	-.064	-.070	.002
4	-.078	.002	.066	-.050	-.018	-.017	-.008	.069	-.042	-.130	.009	-.034	.074	.008
5	.150	-.012	.035	-.025	.014	.035	-.042	.057	.018	-.004	.030	.007	-.018	-.033
6	.042	.147	.001	.084	.011	.051	.007	.039	-.017	.027	-.037	.039	-.025	.030
7	.226	-.004	.103	-.003	.074	-.007	.057	-.000	.037	.021	.037	-.005	.022	.013
8	-.056	-.102	-.032	-.059	-.021	-.024	-.020	-.015	-.018	-.007	-.025	-.017	-.029	.007
9	-.033	.155	-.029	.072	-.008	.032	.011	.008	-.012	.017	-.037	.018	.011	.014
10	.046	-.099	.035	-.060	.011	-.038	.004	-.029	.018	-.023	.014	-.023	.014	-.025

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.777	-.344	1.642	-.155	1.331	-.644
2	-.118	-.226	-.058	-.129	-.202	.006
3	-.047	-.052	-.044	-.035	-.009	-.004
4	-.030	-.034	-.007	-.005	.038	-.026
5	.001	.029	-.025	-.004	-.005	.011
6	-.006	.040	-.016	.023	-.007	.010
7	.024	.014	.018	.005	.005	.004
8	-.002	-.005	-.001	-.002	-.007	.007
9	.014	.009	.005	.004	-.001	-.003
10	.007	-.009	.011	-.018	.004	-.015

N	CNREAL	CNIMAG
1	6.327	.351
2	-.175	-.034
3	.002	-.020
4	.007	-.021
5	.006	.009
6	-.009	.039
7	.045	.005
8	-.019	-.014
9	-.002	.021
10	.013	-.027

N	CMREAL	CMIMAG
1	1.510	.185
2	-.041	-.031
3	.014	-.001
4	-.004	.001
5	.004	.001
6	.002	.005
7	.010	-.001
8	-.002	-.005
9	-.002	.006
10	.002	-.004

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	4.150	.143	4.100	.052	-6.972	-1.035	-1.137	-.522	6.735	-6.827
2	.668	.415	.658	.651	.795	.143	.634	.482	.045	.565
3	.305	-.407	.272	-.496	.269	-.376	.321	-.314	.295	-.368
4	.072	-.035	.112	-.050	.045	-.041	.054	-.043	.157	.006
5	.210	.014	.222	-.099	.168	.010	.182	.043	.116	-.137
6	.007	-.072	-.019	-.109	-.011	-.122	.010	-.094	.031	-.074
7	-.086	-.075	-.104	-.047	-.156	-.102	-.130	-.081	-.069	-.182
8	.046	-.042	.013	-.046	.072	-.007	.057	-.027	.029	-.036
9	.002	-.036	-.050	-.044	.012	-.076	.005	-.059	.022	-.032
10	-.033	.049	-.066	.032	-.053	.067	-.050	.048	-.038	.013

*** STABILITY PARAMETER

* XI = -.1849 *
****

C-2

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 79 ALPHA-MCL = 2.0 PDP RUN.PT 16.07
RUN 16 ALPHA-BAR = .5 Q-COMP = .32333
POINT 3 SIGMA = 135. V-REF = 199.44
COMPUTED FREQUENCY = 15.58, K = .1227

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.275	5.25	19.792	.38	10.207	6.11	6.869	8.76	4.054	8.71	4.649	.87	2.866	355.94
2	.458	187.61	1.330	208.21	.150	183.34	.271	245.62	.220	227.48	.317	93.51	.408	84.30
3	.288	38.46	.283	284.90	.044	26.36	.189	7.46	.145	167.01	.064	263.21	.070	178.55
4	.078	178.36	.083	322.87	.025	222.92	.089	94.88	.137	252.24	.035	283.96	.075	6.49
5	.161	355.75	.043	323.83	.037	67.43	.071	126.16	.018	347.67	.031	13.77	.038	241.34
6	.153	74.02	.084	89.56	.052	78.06	.040	79.49	.032	122.75	.053	133.46	.039	130.60
7	.226	358.94	.104	358.16	.075	354.29	.057	359.76	.042	30.37	.038	351.94	.025	29.66
8	.116	241.16	.068	241.45	.032	228.69	.026	217.12	.019	200.80	.030	215.03	.030	167.43
9	.159	101.97	.074	111.95	.033	103.64	.014	35.78	.021	126.43	.020	111.32	.018	52.14
10	.109	294.64	.069	300.57	.050	285.84	.029	278.52	.030	308.44	.027	300.55	.029	298.40

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.798	352.93	1.649	354.62	1.478	334.18
2	.255	242.39	.142	245.83	.202	178.27
3	.070	228.27	.056	218.93	.010	201.27
4	.034	269.86	.009	216.78	.046	326.06
5	.029	88.81	.025	189.57	.012	112.20
6	.041	98.28	.028	124.44	.012	127.83
7	.027	30.41	.019	14.03	.006	37.83
8	.005	251.47	.003	240.29	.010	137.49
9	.017	33.69	.007	37.11	.003	245.74
10	.011	309.96	.022	301.48	.015	283.76

N	CN-MAG	PHIN
1	6.337	3.17
2	.178	191.14
3	.020	276.89
4	.023	288.36
5	.011	53.57
6	.040	103.43
7	.045	5.79
8	.024	216.64
9	.022	95.77
10	.030	295.83

N	CM-MAG	PHIM
1	1.521	6.98
2	.052	216.80
3	.014	355.03
4	.004	169.10
5	.004	20.01
6	.006	66.37
7	.010	354.35
8	.005	243.78
9	.006	110.77
10	.004	292.11

*** STABILITY PARAMETER

****
* XI = -.1849 *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.152	1.96	4.101	.73	7.048	188.44	1.251	204.63	9.590	314.61
2	.787	31.81	.926	44.70	.808	10.20	.796	37.25	.567	85.48
3	.509	306.86	.566	298.79	.462	305.57	.449	315.56	.472	308.76
4	.080	334.26	.123	336.16	.060	317.74	.069	321.97	.157	2.25
5	.210	3.88	.243	336.06	.168	3.24	.186	13.25	.180	310.30
6	.072	275.82	.110	260.25	.122	264.94	.095	275.97	.080	292.50
7	.114	221.18	.114	204.29	.186	213.31	.153	211.91	.195	249.22
8	.063	317.90	.047	285.36	.072	354.53	.063	334.75	.047	309.21
9	.036	273.31	.067	221.39	.077	278.69	.059	274.40	.039	304.28
10	.059	124.04	.074	154.01	.066	127.98	.069	136.30	.041	161.42

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 81 ALPHA-MCL = 2.0 PDP RUN.PT 16.09
RUN 16 ALPHA-PAR = .5 Q-COMP = .31887
POINT 5 SIGMA = 135. V-REF = 198.04
COMPUTED FREQUENCY = 19.24, K = .1526

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-18.755	-1.093	-8.266	-.179	-4.847	-.003	-3.020	.171	-2.157	.401	-2.959	.899	-2.763	1.187
2	.108	-.418	-.273	-.024	-.363	.069	-.405	.427	-.458	.194	-.511	-.080	-.493	.043
3	.030	-.223	-.030	-.144	-.049	-.095	-.267	-.064	.140	-.124	-.038	-.077	-.056	-.044
4	.002	.045	-.017	-.073	-.013	-.115	-.010	-.206	.030	-.011	.000	-.128	-.004	-.123
5	-.098	.005	-.037	-.011	-.017	-.024	-.010	-.013	-.044	-.003	-.015	-.014	-.041	-.001
6	.008	-.134	.021	-.117	.041	-.106	.041	-.122	.058	-.107	.043	-.115	.056	-.089
7	-.061	-.025	-.010	.010	-.005	.024	.019	.030	-.009	.039	.004	.040	-.001	.046
8	.019	.028	.013	.005	.012	-.011	.013	-.007	.020	-.031	.024	-.006	.028	-.002
9	-.003	-.094	-.017	-.052	-.023	-.041	-.036	-.039	-.028	-.031	-.037	-.043	-.035	-.043
10	-.030	.056	-.025	.020	-.021	.010	-.019	.004	-.028	-.001	-.022	-.001	-.010	-.000

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.270	1.094	-1.669	.899	-1.197	.812	16.346	2.480	10.791	.215	5.238	1.655	3.535	1.490
2	-.492	.082	-.488	.087	-.495	.091	-.848	-.004	-1.180	-.241	-.656	.173	-.618	.133
3	-.092	-.037	-.100	-.055	-.104	-.065	-.060	.091	-.127	-.250	-.073	-.041	-.087	-.062
4	.028	-.117	.026	-.117	.020	-.113	-.007	-.226	.020	-.226	.011	-.168	.034	-.145
5	-.046	-.005	-.046	.002	-.045	-.011	-.034	-.001	-.066	-.036	-.061	-.014	-.055	-.025
6	.057	-.081	.057	-.083	.044	-.078	.060	-.064	.045	-.083	.059	-.066	.084	-.052
7	-.011	.043	-.005	.042	.006	.036	.058	.075	.034	.058	.014	.047	-.002	.032
8	.025	-.008	.028	-.006	.022	-.014	-.000	-.063	.003	-.047	.020	-.028	.026	-.022
9	-.039	-.038	-.035	-.042	-.033	-.032	-.040	.027	-.039	.005	-.035	-.023	-.029	-.046
10	-.013	-.002	-.005	-.004	-.005	-.005	.016	-.070	.013	-.047	.013	-.025	.010	-.016

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.025	1.139	1.613	1.225	.224	1.114	.308	.915	.035	.822	-.056	.228
2	-.554	.181	-.613	.210	-.337	.457	-.694	-.167	-.545	-.003	-.592	.143
3	-.051	-.075	-.057	-.132	-.104	-.123	-.133	-.068	-.100	-.085	-.102	-.083
4	.013	-.157	.004	-.174	.033	-.100	.021	-.120	.029	-.090	.036	-.135
5	-.061	-.019	-.055	-.032	-.055	-.039	-.045	-.029	-.046	-.029	-.032	-.011
6	.036	-.065	.048	-.069	.037	-.051	.046	-.061	.043	-.065	.035	-.060
7	-.000	.035	-.001	.043	.005	.031	.001	.023	.010	.021	.008	.025
8	.019	-.017	.027	-.018	.023	-.016	.008	-.010	.016	-.012	.016	-.017
9	-.027	-.028	-.027	-.032	-.024	-.036	-.029	-.036	-.023	-.028	-.021	-.030
10	.001	-.012	.001	-.012	-.009	-.008	-.001	-.003	-.012	-.003	-.014	-.002

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 81 ALPHA-MCL = 2.0 PDP RUN.PT 16.09
RUN 16 ALPHA-BAR = .5 Q-COMP = .31887
POINT 5 SIGMA = 135. V-REF = 198.04
COMPUTED FREQUENCY = 19.24, K = .1526

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.787	183.34	8.268	181.24	4.847	180.03	3.025	176.76	2.194	169.46	3.092	163.10	3.008	156.75
2	.432	284.53	.274	165.00	.370	169.22	.588	133.50	.498	157.07	.518	188.89	.494	174.97
3	.225	277.54	.147	258.33	.107	242.44	.275	193.51	.187	318.39	.085	243.72	.072	218.32
4	.045	87.18	.075	256.71	.115	263.75	.206	267.24	.032	340.21	.128	270.15	.123	268.16
5	.088	176.51	.039	196.77	.029	234.96	.017	233.24	.044	183.67	.021	222.01	.041	181.50
6	.134	273.44	.119	260.32	.113	291.14	.128	288.54	.122	298.63	.123	290.55	.105	302.46
7	.066	201.77	.014	135.05	.025	100.97	.035	58.76	.041	103.07	.040	83.92	.046	91.07
8	.034	55.62	.014	19.52	.016	316.90	.014	332.43	.037	301.93	.024	344.85	.028	355.28
9	.094	268.26	.055	251.75	.047	240.24	.053	227.11	.042	228.07	.057	229.64	.056	231.01
10	.064	118.05	.032	141.93	.024	155.35	.019	167.54	.028	181.04	.022	183.37	.010	180.68

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.520	154.26	1.895	151.69	1.447	145.85	16.533	8.63	10.793	1.14	5.493	17.54	3.836	22.85
2	.489	170.40	.495	169.94	.503	169.52	.848	180.29	1.797	187.70	.679	165.25	.632	167.83
3	.099	202.06	.114	209.11	.122	212.11	.109	123.39	.281	243.16	.084	209.62	.107	215.23
4	.120	283.31	.120	282.51	.115	280.13	.226	268.24	.227	275.07	.168	273.76	.149	283.14
5	.046	185.69	.046	177.84	.046	193.32	.034	181.55	.075	208.48	.063	192.63	.061	204.40
6	.099	304.96	.100	304.58	.090	299.57	.087	313.14	.094	298.37	.089	311.64	.099	328.56
7	.045	104.35	.043	96.94	.037	79.89	.095	52.02	.068	59.57	.049	72.98	.032	94.05
8	.030	343.61	.029	348.28	.026	326.62	.063	269.71	.047	273.97	.035	305.61	.034	319.91
9	.054	224.38	.054	230.09	.047	224.29	.048	146.47	.039	172.15	.041	213.35	.054	237.92
10	.013	187.55	.009	204.69	.008	226.03	.072	282.98	.049	285.56	.028	298.30	.019	300.77

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.323	29.37	2.026	37.20	1.136	78.62	.966	71.42	.822	87.59	.235	103.84
2	.583	161.93	.648	161.08	.568	126.40	.714	193.56	.545	180.33	.609	166.39
3	.091	235.85	.141	249.23	.161	229.82	.150	207.10	.132	220.34	.131	219.28
4	.157	274.77	.174	271.28	.105	288.60	.122	280.07	.095	288.02	.140	284.92
5	.064	197.66	.072	206.37	.067	215.31	.054	212.42	.054	212.18	.034	199.26
6	.074	299.30	.084	304.52	.063	305.98	.076	306.80	.078	303.31	.069	299.80
7	.035	90.54	.043	90.93	.031	80.46	.023	87.71	.023	65.45	.026	73.25
8	.025	319.38	.032	325.81	.028	324.62	.013	307.08	.020	323.01	.023	313.27
9	.039	226.10	.042	230.09	.043	236.11	.046	230.89	.036	230.27	.036	235.27
10	.012	277.12	.012	274.15	.012	221.91	.003	248.13	.012	192.04	.014	189.34

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 61 ALPHA-PCL = 2.0 PDP RUN.PT 16.09
RUN 16 ALPHA-PAR = .5 Q-COMP = .31887
POINT 5 SIGMA = 135. V-REF = 198.04
COMPUTED FREQUENCY = 19.24, K = .1526

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	35.101	3.573	19.057	.394	10.084	1.658	6.555	1.319	4.181	.738	4.572	.326	2.987	-.074
2	-.956	.414	-1.507	-.217	-.293	.104	-.213	-.293	-.096	-.013	-.102	.290	.155	.414
3	-.089	.314	-.097	-.106	-.023	.053	.180	.002	-.191	.048	-.012	-.055	-.047	-.078
4	-.009	-.270	.037	-.153	.024	-.053	.044	.061	-.017	-.146	.004	-.047	.037	.024
5	.054	-.006	-.029	-.025	-.044	.010	-.045	-.012	-.017	-.017	-.049	-.018	-.014	-.038
6	.052	.070	.024	.034	.018	.039	.044	.070	-.022	.042	.004	.046	-.019	.038
7	.120	.099	.044	.048	.019	.022	-.020	.002	.009	-.004	-.005	.003	.006	-.015
8	-.020	-.092	-.010	-.052	.009	-.017	.013	-.015	-.000	.015	.003	-.012	-.005	-.014
9	-.037	.121	-.022	.058	-.011	.018	.007	-.007	.001	.003	.010	.011	.011	.008
10	.046	-.126	.038	-.067	.035	-.035	.029	-.020	.029	-.011	.023	-.011	.001	-.008

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.576	-.179	1.703	-.077	1.141	-.584
2	-.211	-.249	-.057	-.090	-.097	.052
3	-.042	-.031	-.001	-.030	.002	-.018
4	-.006	-.003	.003	.027	.016	-.022
5	.001	-.024	.000	-.030	.013	-.000
6	-.011	.020	-.014	.018	-.010	.018
7	.012	-.021	.015	-.022	.001	-.011
8	-.021	-.002	-.012	-.006	-.006	-.003
9	.010	.002	.012	.014	.013	.003
10	.012	-.001	-.004	.001	-.009	.003

N	CNREAL	CNIMAG
1	6.240	.529
2	-.230	.036
3	-.027	-.009
4	.014	-.041
5	-.020	-.016
6	.003	.038
7	.009	.003
8	-.002	-.012
9	.003	.013
10	.018	-.018

N	CMREAL	CMIMAG
1	1.492	.204
2	-.070	-.009
3	-.000	.008
4	.002	-.011
5	-.003	.001
6	.004	.004
7	.003	.005
8	.001	-.003
9	-.003	.003
10	.004	-.006

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.391	1.450	2.351	1.322	-P.738	.112	-2.675	.540	5.062	-6.272
2	-.720	.197	-.651	.436	-.400	-.281	-.553	.094	-1.096	.293
3	-.042	-.147	.013	-.119	.077	-.171	-.016	-.051	-.078	-.332
4	.002	-.207	-.039	-.190	-.006	-.048	.013	-.149	.037	-.118
5	-.053	-.014	-.009	-.063	-.060	-.008	-.040	-.013	.026	-.070
6	.046	-.154	.026	-.193	.059	-.138	.077	-.140	.056	-.145
7	.027	.066	-.027	.086	-.024	-.003	-.006	.044	.047	-.017
8	.015	-.025	-.001	-.022	.042	.008	.017	-.011	-.042	-.067
9	-.055	-.049	-.079	-.069	-.030	-.055	-.049	-.040	-.030	-.011
10	-.014	-.022	-.019	-.031	-.022	.018	-.017	.004	-.030	-.056

*** STABILITY PARAMETER

*   *
* XI =   -.2038 *
*   *
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 81 ALPHA-MCL = 2.0 PDP RUN.PT 16.09
RUN 16 ALPHA-BAR = .5 Q-COMP = .31887
POINT 5 SIGMA = 135. V-REF = 198.04
COMPUTED FREQUENCY = 19.24, K = .1526

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.510		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.283	5.81	19.061	1.18	10.220	9.34	6.686	11.37	4.246	10.01	4.584	4.08	2.988	358.59
2	1.042	156.60	1.523	188.19	.311	160.53	.363	234.00	.097	187.68	.337	109.38	.442	69.43
3	.32[illegible]	105.88	.144	227.66	.058	113.68	.180	.80	.197	165.73	.057	257.56	.091	238.82
4	.270	268.07	.157	283.69	.058	293.91	.075	54.13	.147	263.43	.047	274.39	.044	32.12
5	.054	[illegible]3.33	.038	220.26	.046	166.86	.047	194.38	.024	224.10	.053	200.25	.040	250.11
6	.087	53.54	.041	54.96	.043	65.35	.082	58.05	.047	117.58	.046	84.47	.042	117.22
7	.156	39.65	.065	47.66	.029	49.42	.020	173.19	.010	335.44	.036	151.36	.016	291.99
8	.094	257.92	.053	259.37	.019	296.33	.020	310.99	.015	90.63	.012	284.08	.015	249.11
9	.126	107.21	.062	110.45	.021	122.35	.010	317.42	.004	69.63	.015	48.37	.014	34.80
10	.134	290.08	.077	299.77	.049	315.09	.035	324.50	.031	338.92	.025	334.45	.008	278.53

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.584	356.03	1.705	357.41	1.281	332.91
2	.327	229.65	.106	237.57	.110	151.96
3	.052	216.75	.030	268.22	.018	276.81
4	.007	204.69	.027	82.84	.027	305.75
5	.024	271.49	.030	270.12	.013	357.96
6	.083	118.90	.023	128.90	.020	118.78
7	.024	300.31	.026	304.19	.011	276.14
8	.021	185.39	.014	206.11	.006	203.39
9	.010	12.82	.018	49.73	.013	11.40
10	.012	354.76	.004	161.75	.009	161.08

N	CN-MAG	PHIN
1	6.262	4.85
2	.233	171.18
3	.028	198.29
4	.043	288.80
5	.025	218.40
6	.039	35.69
7	.010	15.91
8	.012	259.19
9	.013	77.76
10	.026	315.32

N	CM-MAG	PHIM
1	1.506	7.78
2	.070	186.99
3	.008	93.48
4	.011	278.59
5	.003	163.42
6	.006	39.53
7	.006	64.31
8	.003	290.75
9	.004	127.09
10	.007	306.70

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.796	31.24	2.697	29.35	8.738	179.26	2.729	168.60	8.060	308.90
2	.747	164.71	.783	146.18	.489	215.09	.561	170.36	1.134	165.00
3	.153	254.18	.120	276.36	.188	294.25	.053	252.27	.341	256.77
4	.207	270.51	.193	258.51	.048	263.34	.150	274.94	.124	287.36
5	.055	194.68	.063	261.66	.060	187.19	.042	198.50	.075	290.65
6	.161	287.46	.195	278.19	.150	293.04	.160	298.83	.156	290.93
7	.071	68.05	.090	107.59	.025	187.26	.044	97.91	.050	339.87
8	.029	300.26	.022	268.47	.043	11.21	.020	326.44	.079	238.25
9	.074	221.55	.105	221.32	.063	241.31	.064	219.06	.032	200.37
10	.026	237.63	.036	238.95	.028	141.17	.017	167.24	.064	241.93

*** STABILITY PARAMETER

XI = -.2038

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 83 ALPHA-MCL = 2.0 PDP RUN.PT 17.06
RUN 17 ALPHA-PAR = .5 Q-COMP = .32872
POINT 1 SIGMA = 180. V-REF = 201.12
COMPUTED FREQUENCY = 9.14, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.471	2.195	-8.571	1.427	-5.065	1.137	-3.368	.996	-2.586	.929	-3.637	1.142	-3.640	1.161
2	-.179	-.156	-.225	.037	-.235	.034	-.190	.331	-.241	.110	-.330	-.149	-.327	-.028
3	-.778	.499	-.894	.597	-.917	.636	-1.150	.699	-.835	.606	-1.066	.712	-1.053	.752
4	.425	.196	.593	.228	.636	.250	.640	.183	.759	.394	.775	.354	.756	.318
5	-.278	-.084	-.181	-.097	-.142	-.100	-.062	-.115	-.144	-.101	-.108	-.109	-.110	-.108
6	.351	.387	.298	.436	.260	.465	.214	.472	.217	.488	.219	.455	.207	.447
7	.244	-.016	.243	-.013	.246	-.013	.233	-.010	.232	.015	.223	.039	.214	.044
8	-.133	.169	-.182	.155	-.191	.130	-.219	.118	-.260	.101	-.272	.115	-.274	.107
9	.011	.119	.022	.077	.030	.054	.022	.023	.038	.030	.030	.024	.030	.017
10	-.130	.157	-.094	.144	-.093	.139	-.085	.132	-.116	.155	-.132	.154	-.127	.129

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.010	1.088	-2.314	1.050	-1.753	1.060	17.330	-.064	12.940	-1.366	5.561	.884	3.733	1.036
2	-.296	.016	-.281	.018	-.307	.038	-.580	-.638	-1.380	-.887	-.368	-.080	-.351	-.039
3	-1.545	.735	-1.069	.739	-1.026	.760	-.989	.985	-.845	.744	-.972	.768	-.986	.733
4	.732	.341	.742	.360	.746	.326	.975	.222	1.064	.166	.785	.298	.731	.319
5	-.105	-.088	-.111	-.082	-.125	-.058	-.095	-.017	-.189	-.048	-.117	-.062	-.103	-.065
6	.194	.440	.196	.447	.209	.416	.180	.469	.234	.492	.202	.469	.159	.454
7	.230	.055	.185	.049	.171	.036	.204	-.078	.208	-.060	.235	-.020	.187	.017
8	-.272	.072	-.293	.059	-.278	.057	-.265	.067	-.266	.091	-.248	.080	-.252	.036
9	.026	.005	.040	.005	.033	-.003	.063	-.051	.069	-.040	.045	-.013	.046	-.006
10	-.127	.127	-.137	.176	-.115	.139	.039	.115	-.014	.129	-.044	.130	-.084	.122

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.060	1.024	1.537	1.296	.013	1.333	.233	1.230	-.218	1.096	.201	.627
2	-.295	.035	-.333	.081	-.087	.382	-.453	-.262	-.381	-.112	-.469	-.007
3	-.890	.648	-1.052	.755	-.998	.705	-1.060	.762	-1.000	.743	-1.034	.797
4	.681	.290	.811	.391	.846	.403	.711	.333	.679	.327	.705	.346
5	-.099	-.070	-.104	-.098	-.115	-.135	-.124	-.022	-.122	-.020	-.128	-.038
6	.174	.392	.192	.487	.203	.422	.243	.441	.208	.427	.195	.425
7	.177	.032	.204	.035	.133	.005	.192	.041	.158	.027	.181	.053
8	-.227	.064	-.311	.057	-.272	.049	-.291	.036	-.253	.043	-.247	.047
9	.047	-.062	.073	.004	.035	.016	.057	-.027	.044	-.004	.056	-.043
10	-.059	.126	-.092	.143	-.095	.142	-.094	.148	-.087	.127	-.097	.151

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 83 ALPHA-MCL = 2.0 PDP RUN.PT 17.06
RUN 17 ALPHA-BAR = .5 Q-COMP = .32872
POINT 1 SIGMA = 180. V-REF = 201.12
COMPUTED FREQUENCY = 9.14, K = .0714

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.594	173.57	8.689	170.55	5.191	167.35	3.512	163.53	2.747	160.25	3.812	162.56	3.621	162.31
2	.237	221.01	.228	170.72	.237	171.82	.382	119.87	.265	155.49	.362	204.30	.328	184.91
3	.925	147.34	1.075	146.25	1.116	145.26	1.346	148.69	1.031	144.04	1.282	146.26	1.294	144.46
4	.468	24.79	.635	21.04	.683	21.49	.666	15.98	.855	27.46	.852	24.55	.620	22.81
5	.290	196.88	.205	208.14	.174	215.02	.141	234.48	.176	215.09	.154	225.23	.154	224.60
6	.522	47.82	.528	55.62	.533	60.80	.518	65.57	.534	66.03	.505	64.35	.492	65.13
7	.244	356.17	.243	356.97	.246	357.04	.233	357.64	.233	3.65	.227	9.83	.219	11.69
8	.215	128.15	.239	139.70	.231	145.69	.249	151.65	.279	158.73	.296	157.05	.294	158.65
9	.120	84.96	.080	74.17	.061	61.02	.032	45.90	.048	38.47	.039	38.47	.034	28.95
10	.203	129.58	.172	123.21	.168	123.90	.157	122.87	.194	126.66	.203	130.51	.181	134.69

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.200	160.13	2.541	155.59	2.049	148.86	17.330	359.79	13.012	353.97	5.631	9.04	3.874	15.51
2	.299	177.01	.281	176.40	.310	172.95	.862	227.70	1.640	212.74	.376	192.27	.353	186.40
3	1.277	144.89	1.299	145.32	1.277	143.47	1.396	135.11	1.126	138.61	1.239	141.69	1.228	143.36
4	.808	24.95	.824	25.89	.815	23.61	1.000	12.85	1.077	8.85	.840	20.80	.797	23.58
5	.137	220.11	.138	216.65	.138	204.78	.097	189.91	.195	194.13	.133	207.99	.122	211.97
6	.481	66.22	.488	66.28	.465	63.29	.503	68.97	.545	64.53	.511	66.70	.481	70.65
7	.207	15.28	.191	14.85	.175	11.92	.218	339.16	.216	343.79	.206	354.49	.188	5.06
8	.282	165.29	.299	168.66	.283	168.34	.273	165.90	.281	[illegible]	.261	162.07	.255	171.83
9	.027	11.03	.040	6.84	.033	355.39	.081	321.06	.079	329.99	.047	343.99	.047	352.03
10	.180	135.08	.190	134.30	.180	129.52	.121	71.04	.129	96.19	.137	108.48	.148	124.44

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.300	26.43	2.010	40.13	1.333	89.43	1.252	79.26	1.118	101.27	.658	72.20
2	.297	173.27	.342	166.27	.392	102.82	.523	210.03	.397	196.44	.469	180.80
3	1.101	143.94	1.295	144.35	1.222	144.76	1.306	144.29	1.246	143.37	1.305	142.39
4	.740	23.05	.900	25.73	.937	25.47	.785	25.08	.754	25.75	.786	26.15
5	.121	215.30	.143	223.40	.177	229.66	.126	190.10	.123	189.42	.134	196.45
6	.429	66.07	.523	68.51	.468	64.30	.504	61.12	.475	63.97	.468	65.39
7	.180	10.36	.207	9.84	.133	1.94	.197	12.02	.160	9.57	.168	16.35
8	.236	164.18	.316	169.59	.277	169.84	.293	172.95	.256	170.26	.251	169.10
9	.047	357.61	.074	2.91	.039	24.98	.063	334.31	.044	354.30	.071	322.42
10	.139	115.12	.170	122.72	.171	123.90	[illegible]	122.38	.154	124.51	.179	122.71

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	83	ALPHA-MCL = 2.0		PDP RUN.PT	17.06
RUN	17	ALPHA-PAR = .5		Q-COMP =	.32872
POINT	1	SIGMA = 180.		V-REF =	201.12

COMPUTED FREQUENCY = 9.14, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	36.601	-2.258	21.511	-2.793	10.626	-.253	7.102	.040	4.045	.096	5.174	.153	3.654	.172
2	-.401	-.482	-1.154	-.924	-.133	-.114	-.161	-.370	-.054	-.075	-.003	.230	.240	.410
3	-.210	.466	.049	.147	-.055	.132	.164	.034	-.056	.043	.014	.042	.055	-.047
4	.550	.026	.471	-.062	.150	.048	.091	.136	-.079	-.105	.036	.037	.090	.085
5	.193	.068	-.008	.049	.025	.038	-.021	.050	.045	.031	.004	.011	-.005	-.027
6	-.170	.082	-.064	.056	-.058	.004	-.055	-.018	-.043	-.096	-.027	.031	-.004	-.024
7	-.039	-.061	-.035	-.048	-.041	-.007	-.046	.026	-.055	.018	-.020	-.003	-.082	-.040
8	-.132	-.102	-.083	-.064	-.058	-.050	-.033	-.082	.033	-.037	-.038	-.058	.001	-.058
9	.053	-.170	.047	-.117	.016	-.067	.024	-.029	.009	-.032	.043	-.020	.005	-.000
10	.159	-.042	.080	-.016	.050	-.009	.002	-.010	.057	-.030	.040	-.011	.032	.013

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	3.243	.142	2.096	.046	1.955	-.433
2	-.154	-.277	-.100	-.130	-.162	-.045
3	-.016	.028	.069	.004	-.008	.036
4	-.022	-.008	-.063	-.033	-.041	.020
5	-.020	.066	-.011	.062	-.003	.020
6	.050	.001	.012	-.020	-.014	.010
7	-.008	-.014	-.027	-.022	.010	.017
8	-.019	-.035	.041	-.015	.031	-.010
9	.031	-.033	.004	-.009	.023	-.041
10	.033	.021	.046	-.010	.018	.012

N	CNREAL	CNIMAG
1	6.973	-.249
2	-.139	-.103
3	.014	.055
4	.072	.019
5	.008	.030
6	-.028	-.007
7	-.035	-.007
8	-.017	-.049
9	.023	-.039
10	.040	-.006

N	CMREAL	CMIMAG
1	1.561	-.116
2	-.044	-.049
3	-.001	.017
4	.031	.001
5	.004	.003
6	-.010	.001
7	-.003	-.001
8	-.008	-.005
9	.001	-.007
10	.004	-.003

*** STABILITY PARAMETER

* XI = .1163 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.763	1.078	2.394	1.222	-8.935	1.870	-3.100	1.408	7.434	-.296
2	-.523	-.066	-.542	.219	-.097	-.343	-.224	-.022	-.716	-.545
3	-1.324	.963	-1.462	1.032	-1.079	.870	-1.218	.814	-.966	.632
4	1.073	.354	1.126	.384	.862	.429	.868	.398	.647	.287
5	-.219	-.055	-.261	-.062	-.209	-.183	-.163	-.195	-.296	-.028
6	.337	.686	.324	.851	.313	.558	.256	.608	.356	.551
7	.271	-.088	.195	-.119	.375	-.060	.296	-.030	.178	-.124
8	-.276	.166	-.364	.064	-.209	.171	-.258	.115	-.199	.028
9	.060	.036	.130	.079	.035	.057	.026	.046	.036	-.066
10	-.084	.125	-.118	.252	-.165	.209	-.156	.175	-.144	.175

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 83 ALPHA-MCL = 2.0 PDP RUN.PT 17.06
RUN 17 ALPHA-BAR = .5 Q-COMP = .32872
POINT 1 SIGMA = 180. V-REF = 201.12
COMPUTED FREQUENCY = 9.14, K = .0714

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	36.871	356.49	21.692	352.60	10.629	358.64	7.102	.32	4.647	1.18	5.176	1.70	3.656	2.69
2	.627	230.22	1.478	218.67	.175	220.52	.404	246.48	.392	234.43	.230	90.76	.475	59.69
3	.530	113.40	.155	71.67	.143	112.71	.168	11.61	.070	142.51	.045	71.50	.072	319.38
4	.551	2.74	.475	352.47	.157	17.81	.163	56.28	.131	233.18	.051	45.63	.124	43.41
5	.195	20.33	.050	99.59	.045	56.02	.055	112.97	.054	34.63	.012	67.80	.027	259.81
6	.189	154.15	.085	138.68	.058	176.44	.058	198.40	.105	245.87	.041	130.68	.025	261.21
7	.073	237.25	.059	233.79	.042	189.66	.053	150.33	.058	162.25	.020	189.74	.091	206.01
8	.167	217.71	.105	217.52	.076	220.81	.088	248.26	.049	311.67	.070	236.64	.058	271.14
9	.178	287.22	.126	291.84	.068	283.23	.038	309.23	.033	266.41	.048	334.88	.005	356.43
10	.174	346.00	.082	348.99	.051	349.80	.010	279.79	.064	332.42	.041	344.60	.034	23.06

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.246	2.51	2.096	1.26	2.002	347.52
2	.317	240.91	.164	232.34	.168	195.43
3	.032	119.29	.069	3.08	.037	101.71
4	.023	200.48	.071	207.42	.046	153.89
5	.069	105.70	.063	99.98	.020	98.55
6	.050	1.63	.024	300.63	.017	146.26
7	.016	240.08	.035	219.92	.020	59.96
8	.040	242.09	.043	339.20	.033	342.48
9	.045	313.36	.010	295.12	.047	299.73
10	.039	32.58	.047	348.22	.021	32.66

N	CN-MAG	PHIN
1	6.978	357.95
2	.173	216.54
3	.056	75.42
4	.074	14.62
5	.031	74.49
6	.029	194.74
7	.036	190.76
8	.051	250.28
9	.044	300.61
10	.041	351.97

N	CM-MAG	PHIM
1	1.565	355.74
2	.065	228.17
3	.017	94.21
4	.031	1.60
5	.005	30.68
6	.010	171.70
7	.003	191.93
8	.020	211.91
9	.007	282.01
10	.005	323.48

*** WALL PRESSURES, PER RADIAN ***

*** STABILITY PARAMETER

XI = .1163

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.966	21.32	2.688	27.04	9.128	168.18	3.405	155.57	7.440	337.72
2	.527	187.18	.584	158.03	.356	254.19	.225	185.63	.900	217.25
3	1.637	143.97	1.772	145.56	1.386	141.13	1.465	146.24	1.355	146.82
4	1.130	18.25	1.190	18.85	.963	26.46	.955	24.63	.708	23.95
5	.226	194.14	.268	193.32	.278	221.31	.254	230.05	.298	185.31
6	.766	63.86	.911	69.14	.640	60.71	.659	67.16	.656	57.13
7	.285	342.10	.228	328.60	.380	350.90	.297	354.17	.217	325.10
8	.322	148.90	.370	170.01	.270	140.66	.282	156.04	.201	172.04
9	.071	32.07	.153	31.30	.066	58.49	.052	60.53	.075	298.80
10	.203	114.39	.279	115.03	.267	128.27	.234	131.75	.227	129.41

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 86 ALPHA-MCL = 2.0 PDP RUN.PT 17.08
RUN 17 ALPHA-BAR = .5 Q-COMP = .33017
POINT 4 SIGMA = 180. V-REF = 201.56
COMPUTED FREQUENCY = 15.57, K = .1213

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.099	2.539	-8.383	1.259	-5.022	.769	-3.221	.481	-2.548	.252	-3.570	.462	-3.630	.541
2	-.174	.214	-.181	.614	-.205	.692	-.080	1.033	-.197	.752	-.356	.537	-.265	.730
3	.342	-.153	.244	-.141	.203	-.111	.022	.004	.370	-.295	.219	-.156	.188	-.137
4	.158	.233	.095	.090	.060	.051	-.002	-.016	.179	.082	.075	-.035	.082	.009
5	.151	.066	.148	-.068	.156	-.120	.179	-.122	.209	-.086	.237	-.131	.226	-.125
6	-.157	.042	-.063	.019	-.051	-.002	-.074	-.025	-.076	-.008	-.066	-.003	-.050	-.020
7	.032	-.164	.059	-.123	.072	-.097	.095	-.120	.094	-.086	.088	-.082	.070	-.059
8	.069	.052	.036	.026	.029	.025	.043	.029	.022	.018	.030	.012	.019	.023
9	.071	-.010	.027	.003	.008	.006	-.001	.017	-.005	-.002	-.013	.014	-.011	.020
10	.002	-.014	.022	.028	.025	.040	.020	.050	.018	.062	.015	.073	.005	.069

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.954	.463	-2.237	.425	-1.742	.447	16.659	-.985	11.587	-2.551	5.397	.437	3.593	.655
2	-.259	.729	-.263	.749	-.261	.747	-.444	.278	-1.279	.423	-.318	.683	-.326	.681
3	.192	-.143	.200	-.138	.219	-.156	.205	-.007	.124	-.200	.198	-.066	.198	-.070
4	.090	.028	.098	.024	.112	.015	.093	-.072	.112	-.200	.106	-.025	.105	-.008
5	.237	-.092	.253	-.085	.241	-.086	.061	-.217	.109	-.164	.161	-.145	.197	-.096
6	-.048	-.018	-.041	-.015	-.046	-.005	.005	-.050	-.021	-.029	-.015	.001	-.024	-.002
7	.074	-.065	.062	-.073	.052	-.072	.100	-.064	.086	-.079	.084	-.088	.094	-.072
8	.022	.012	.028	.018	.025	.015	.010	-.027	.019	-.008	.023	-.004	.015	.004
9	-.015	.016	-.012	.017	-.007	.025	-.091	.003	-.047	.005	-.032	-.002	-.030	-.002
10	.005	.375	.010	.078	.012	.077	.058	.098	.049	.083	.044	.075	.020	.087

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.970	.688	1.488	.699	.049	1.083	.185	.862	-.116	.676	-.054	.156
2	-.252	.706	-.285	.878	.018	1.009	-.499	.543	-.329	.687	-.445	.759
3	.207	-.096	.257	-.175	.183	-.111	.191	-.399	.195	-.115	.204	-.137
4	.084	-.013	.111	.013	.222	.006	.077	-.001	.093	.014	.108	.005
5	.194	-.111	.270	-.137	.204	-.140	.264	-.064	.261	-.058	.252	-.086
6	-.029	.005	-.047	.020	-.032	.017	-.009	.014	-.023	.016	-.036	.017
7	.057	-.078	.092	-.094	.039	-.086	.069	-.089	.062	-.070	.061	-.075
8	.021	-.004	.018	.005	.020	.019	.025	-.005	.017	.005	.022	.006
9	-.017	.004	-.016	.004	-.017	.012	-.014	.005	-.017	.007	-.014	.011
10	.027	.069	.025	.084	.017	.073	.011	.088	.006	.081	.032	.074

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 86 ALPHA-MCL = 2.0 PDP RUN.PT 17.08
RUN 17 ALPHA-BAR = .5 Q-COMP = .33017
POINT 4 SIGMA = 180. V-REF = 201.56
COMPUTED FREQUENCY = 15.57, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	10.267	172.43	8.477	171.46	5.080	171.29	3.257	171.50	2.561	174.34	3.599	172.63	3.670	171.53
2	.276	129.09	.640	106.44	.722	106.52	1.036	94.43	.777	104.72	.645	123.56	.777	109.96
3	.374	335.81	.282	329.97	.232	331.29	.022	10.15	.473	321.36	.269	324.43	.233	323.98
4	.281	55.78	.131	43.60	.079	40.06	.016	263.81	.197	24.65	.083	25.09	.083	6.5[illegible]
5	.165	23.45	.163	335.44	.197	322.39	.216	325.69	.225	337.70	.271	331.10	.258	331.1[illegible]
6	.163	165.11	.085	166.81	.051	182.58	.078	198.49	.076	185.64	.066	182.60	.054	201.95
7	.187	279.92	.136	295.66	.121	306.81	.153	308.38	.128	317.62	.120	317.32	.092	319.65
8	.086	37.13	.045	35.41	.038	40.69	.052	34.45	.029	39.75	.033	22.09	.030	49.57
9	.072	352.12	.027	7.16	.010	35.51	.017	94.83	.005	196.18	.019	132.72	.023	118.43
10	.014	276.13	.035	52.37	.047	57.74	.054	67.68	.064	73.67	.074	78.08	.069	85.75

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.990	171.09	2.277	169.25	1.798	165.62	16.688	356.62	11.865	347.59	5.415	4.63	3.653	10.33
2	.774	109.58	.794	109.36	.792	109.28	.524	147.91	1.348	161.69	.753	114.93	.755	115.59
3	.239	323.22	.242	325.40	.269	324.59	.205	357.95	.235	301.80	.209	341.09	.210	340.58
4	.095	17.47	.100	13.91	.113	7.77	.118	322.17	.229	299.15	.109	346.59	.105	355.39
5	.255	338.83	.267	341.47	.256	340.49	.226	285.78	.197	303.56	.217	317.99	.219	333.87
6	.051	200.14	.044	199.55	.046	186.57	.051	275.42	.036	234.21	.015	177.30	.025	184.42
7	.099	318.93	.096	310.13	.089	305.47	.119	327.34	.117	317.30	.122	313.58	.118	322.86
8	.028	39.00	.033	32.63	.030	30.44	.029	289.87	.021	335.80	.024	349.02	.016	14.56
9	.021	133.85	.021	126.37	.026	104.53	.091	178.04	.048	173.95	.032	184.21	.030	152.99
10	.075	86.27	.078	82.99	.078	80.92	.114	59.19	.097	59.28	.087	59.64	.089	77.37

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.087	19.24	1.734	31.12	1.084	87.42	.882	77.88	.986	99.76	.165	108.96
2	.750	109.67	.923	107.97	1.009	88.98	.738	132.57	.762	115.61	.880	120.39
3	.229	335.18	.311	325.68	.214	328.77	.216	332.68	.226	329.54	.246	326.18
4	.085	351.21	.112	6.77	.222	1.43	.077	358.91	.094	8.59	.109	2.45
5	.223	330.19	.303	333.06	.247	325.65	.271	346.33	.268	347.38	.267	341.09
6	.029	170.53	.051	156.98	.036	151.80	.017	123.78	.027	145.03	.039	155.14
7	.103	310.75	.132	314.47	.095	294.65	.113	308.01	.093	311.34	.097	309.36
8	.021	350.25	.019	16.14	.027	44.25	.026	349.21	.017	15.23	.023	14.65
9	.018	167.52	.017	166.76	.023	145.38	.015	160.52	.019	159.12	.018	142.45
10	.074	68.39	.088	73.62	.075	77.07	.089	83.20	.081	85.72	.074	88.72

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 86 ALPHA-MCL = 2.0 PDP RUN.PT 17.08
RUN 17 ALPHA-BAR = .5 Q-COMP = .33017
POINT 4 SIGMA = 180. V-REF = 201.56
COMPUTED FREQUENCY = 15.57, K = .1213

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	35.758	-3.524	19.969	-3.809	10.419	-.332	6.814	.174	4.519	.435	5.058	.437	3.679	.542
2	-.270	.064	-1.098	-.191	-.112	-.009	-.246	-.352	-.055	-.046	.072	.341	[illegible]	.279
3	-.137	.146	-.120	-.059	-.006	.044	.176	-.074	-.162	.199	.038	-.019	-.005	.026
4	-.065	-.305	.017	-.290	.046	-.076	.106	.008	-.095	-.095	.036	-.022	.139	-.004
5	-.090	-.283	-.040	-.096	.005	-.025	.018	.025	-.015	-.025	.033	-.006	-.022	-.015
6	.162	-.092	.062	-.048	.036	.003	.049	.023	.047	.012	.019	-.023	.018	.037
7	.068	.120	.027	.043	.012	.008	-.001	.049	-.027	.008	.004	-.013	-.031	-.026
8	-.059	-.079	-.018	-.034	-.006	-.030	-.028	-.025	-.001	-.022	-.012	-.007	.000	-.003
9	-.162	.013	-.074	.002	-.040	-.008	-.029	-.018	-.012	.005	-.004	-.010	-.006	-.008
10	.057	.112	.028	.055	.019	.036	-.001	.037	.009	.007	.009	.011	.012	.004

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	3.139	.399	2.121	.251	1.689	-.291
2	-.239	-.186	-.066	-.063	-.184	.012
3	-.030	.044	-.005	.023	-.015	.019
4	-.013	-.030	-.004	-.010	-.003	-.011
5	.026	.028	.008	.026	.011	-.001
6	.039	.031	.019	.030	.010	.027
7	-.005	-.024	-.009	.003	.010	-.002
8	.003	-.023	-.011	-.013	-.003	-.009
9	.001	-.011	-.005	-.010	-.008	-.014
10	.006	.013	-.004	.003	-.011	-.003

N	CNREAL	CNIMAG
1	6.715	-.169
2	-.133	-.002
3	-.010	.031
4	.024	-.057
5	.001	-.017
6	.036	.013
7	-.002	.007
8	-.009	-.019
9	-.022	-.007
10	.009	.020

N	CMREAL	CMIMAG
1	1.494	-.185
2	-.040	-.017
3	-.002	-.000
4	.001	-.016
5	-.003	-.009
6	.005	-.005
7	.002	.006
8	-.002	-.003
9	-.007	.001
10	.003	.005

*** STABILITY PARAMETER

* XI = .1846 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.670	.434	2.590	.419	-8.869	1.679	-3.015	.872	7.302	-.846
2	-.504	1.024	-.404	1.344	-.192	.363	-.285	.835	-.738	.250
3	.287	-.133	.285	-.216	.542	-.236	.305	-.179	.285	.118
4	.176	-.027	.095	-.024	.175	.147	.108	.013	.213	-.003
5	.185	-.175	.120	-.226	.188	-.037	.185	-.113	.060	.019
6	-.094	.016	-.126	.073	-.129	.002	-.092	-.009	-.111	.044
7	.106	-.135	.161	-.145	.084	-.161	.124	-.118	.159	-.175
8	.033	.016	.031	-.054	.033	.027	.047	.012	.013	-.023
9	-.032	.002	-.035	.075	.025	-.018	-.003	.026	-.007	.034
10	.049	.072	.058	.058	.046	.038	.040	.069	.073	.134

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 86 ALPHA-MCL = 2.0 PDP RUN.PT 17.08
RUN 17 ALPHA-BAR = .5 Q-COMP = .33017
POINT 4 SIGMA = 180. V-REF = 201.56
COMPUTED FREQUENCY = 15.57, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		[illegible]		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.932	354.37	20.329	349.20	10.424	358.17	6.817	1.46	4.539	5.50	5.077	4.93	3.719	8.38
2	.277	166.64	1.115	189.86	.113	184.46	.429	235.04	.072	219.78	.348	78.13	.397	44.61
3	.200	133.13	.134	205.99	.044	97.22	.191	337.28	.257	129.10	.043	333.55	.026	100.90
4	.312	257.98	.291	273.32	.089	301.27	.107	4.04	.135	224.95	.042	328.45	.139	358.40
5	.297	252.39	.104	247.57	.026	281.84	.031	54.87	.029	239.42	.034	349.09	.026	213.95
6	.186	330.32	.078	321.87	.036	4.74	.054	24.83	.049	14.75	.030	50.48	.042	63.62
7	.138	60.67	.051	58.16	.014	35.87	.049	90.88	.028	163.79	.013	287.66	.040	223.80
8	.098	233.21	.038	242.83	.030	258.57	.038	222.50	.022	266.21	.014	210.48	.004	275.81
9	.162	175.42	.074	178.68	.041	191.37	.034	212.06	.013	156.12	.011	249.95	.010	232.94
10	.125	63.12	.062	63.26	.040	61.84	.037	91.43	.012	37.65	.015	50.48	.012	17.85

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.164	7.24	2.136	6.76	1.713	350.23
2	.303	217.87	.091	223.47	.184	176.22
3	.044	90.03	.024	101.46	.024	126.34
4	.033	246.08	.011	247.78	.011	252.17
5	.038	47.00	.028	73.37	.011	355.43
6	.050	38.99	.036	58.59	.024	65.39
7	.025	258.34	.003	93.94	.010	347.33
8	.023	278.21	.018	229.54	.010	251.81
9	.011	275.16	.011	243.61	.016	240.60
10	.014	67.00	.005	137.79	.011	193.72

N	CN-MAG	PHIN
1	6.717	358.56
2	.133	180.83
3	.033	108.44
4	.062	293.10
5	.017	273.51
6	.038	20.01
7	.007	102.20
8	.021	243.89
9	.023	198.14
10	.022	65.80

N	CM-MAG	PHIM
1	1.505	352.96
2	.044	203.42
3	.002	182.43
4	.016	272.11
5	.009	250.44
6	.007	317.79
7	.007	70.73
8	.004	233.93
9	.007	173.70
10	.006	64.84

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.705	9.24	2.624	9.19	9.027	169.28	3.136	163.88	7.351	353.39
2	1.141	116.22	1.403	106.74	.411	117.84	.883	108.83	.779	161.28
3	.316	335.15	.358	322.86	.591	336.43	.353	329.52	.308	22.51
4	.178	8.81	.098	345.71	.228	40.03	.109	6.77	.214	359.08
5	.254	316.60	.256	297.93	.191	348.96	.217	328.53	.063	17.65
6	.095	170.40	.145	149.93	.129	179.22	.092	185.62	.119	158.11
7	.172	308.15	.217	318.09	.182	297.41	.171	316.57	.237	312.29
8	.036	25.42	.062	299.57	.043	39.46	.048	14.82	.026	299.33
9	.032	176.54	.083	114.81	.031	324.36	.026	97.40	.034	101.93
10	.087	55.54	.082	45.12	.060	39.73	.080	59.78	.153	61.40

*** STABILITY PARAMETER

****
* XI = .1846 *
****

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 88 ALPHA-MCL = 2.0 POP RUN.PT 17.10
RUN 17 ALPHA-PAR = .5 G-COMP = .32788
POINT 6 SIGMA = 180. V-REF = 200.85
COMPUTED FREQUENCY = 19.23, K = .1504

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.006	2.484	-8.376	.655	-4.976	.243	-3.212	-.186	-2.576	-.553	-3.611	-.321	-3.616	-.257
2	.347	-.681	.414	-.446	.425	-.367	.639	-.036	.564	-.376	.377	-.599	.496	-.433
3	-.245	-.549	-.199	-.442	-.176	-.427	-.293	-.254	-.010	-.651	-.177	-.493	-.152	-.465
4	.264	-.031	.094	-.113	.049	-.139	-.047	-.172	.140	-.132	.039	-.140	.056	-.175
5	-.117	-.182	-.020	-.105	.013	-.082	.027	-.091	.037	-.082	.060	-.078	.063	-.044
6	.097	.044	.068	.060	.062	.073	.040	.064	.058	.116	.054	.084	.044	.076
7	-.046	-.011	-.025	-.025	-.027	-.026	-.016	-.028	-.030	-.006	-.011	-.015	-.001	.008
8	.029	-.008	.026	.023	.019	.040	.017	.043	.031	.066	.016	.068	-.001	.050
9	.026	.002	.014	-.005	.016	-.008	.015	-.014	.015	-.008	.022	-.014	.024	-.000
10	-.020	-.082	-.013	-.051	-.013	-.037	-.010	-.032	.002	-.038	-.036	-.041	-.034	-.017

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.947	-.330	-2.199	-.373	-1.666	-.320	16.791	-1.979	11.250	-3.568	5.494	-.174	3.667	.062
2	.525	-.366	.535	-.360	.517	-.404	.248	-.839	-.564	-.475	.362	-.415	.377	-.374
3	-.134	-.449	-.126	-.453	-.155	-.427	.046	-.267	-.129	-.394	-.075	-.320	-.059	-.330
4	.079	-.173	.091	-.188	.081	-.180	-.196	-.294	-.149	-.294	-.025	-.254	.051	-.233
5	.055	-.033	.047	-.017	.035	-.015	.065	.093	.030	.045	.023	.039	.008	.024
6	.041	.079	.037	.070	.040	.067	.005	.055	.024	.056	.057	.053	.047	.084
7	-.010	.009	-.008	.014	-.012	.009	.008	.026	-.017	.022	-.020	.026	-.031	.020
8	-.002	.047	-.009	.041	-.005	.034	-.034	.052	-.008	.040	-.028	.016	-.022	.016
9	.025	.003	.033	.033	.024	-.001	.026	.014	.032	.010	.022	.019	.016	.027
10	-.033	-.016	-.037	-.015	-.034	-.019	-.041	.032	-.044	.001	-.065	.004	-.075	-.030

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.042	.182	1.546	.274	.151	.573	.263	.291	-.032	.116	.008	-.488
2	.380	-.307	.553	-.357	.754	-.144	.261	-.552	.417	-.433	.422	-.290
3	-.083	-.348	-.125	-.484	-.125	-.336	-.162	.413	-.132	-.398	-.157	-.426
4	.031	-.218	.092	-.245	.175	-.239	.098	.214	.107	-.184	.119	-.190
5	.003	.003	-.015	-.015	-.020	-.009	.002	-.006	-.006	-.019	.008	-.014
6	.051	.057	.059	.099	.062	.070	.060	.061	.044	.066	.045	.070
7	-.024	.017	-.035	.025	-.024	.012	-.036	.017	-.025	-.002	-.024	.002
8	-.001	.020	-.005	.025	-.002	.027	.003	.022	.007	.029	.008	.032
9	.016	.007	.017	.009	.018	.006	.011	.005	.011	.002	.009	-.002
10	-.043	-.020	-.057	-.035	-.046	-.028	-.032	-.037	-.022	-.038	-.021	-.036

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 88 ALPHA-MCL = 2.0 PDP RUN.PT 17.10
RUN 17 ALPHA-BAR = .5 Q-COMP = .32788
POINT 6 SIGMA = 180. V-REF = 200.85
COMPUTED FREQUENCY = 19.23, K = .1504

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.167	172.55	8.420	174.17	4.982	177.21	3.218	183.32	2.034	192.12	3.626	185.08	3.625	184.07
2	.764	297.01	.608	312.88	.562	319.19	.640	356.81	.678	326.34	.738	302.19	.658	318.91
3	.601	245.96	.485	245.72	.462	247.56	.387	220.95	.651	269.11	.524	250.31	.490	251.90
4	.266	353.31	.147	309.91	.147	289.40	.178	254.56	.192	316.61	.145	285.43	.184	287.86
5	.216	237.14	.107	259.08	.083	278.93	.095	286.20	.090	294.48	.099	307.66	.077	324.76
6	.107	24.32	.091	41.26	.096	49.76	.075	57.62	.130	63.45	.100	57.01	.088	59.84
7	.047	193.91	.036	224.87	.037	223.75	.032	240.17	.030	191.09	.018	233.58	.008	100.14
8	.030	344.23	.035	42.25	.044	64.23	.047	68.23	.073	64.73	.070	76.62	.050	90.77
9	.026	5.21	.015	340.06	.018	332.79	.020	317.27	.017	330.88	.026	328.66	.024	359.06
10	.084	256.43	.053	255.24	.039	250.67	.034	252.44	.038	272.93	.041	261.18	.038	206.53

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.966	186.39	2.231	189.63	1.697	190.87	16.907	353.28	11.802	342.41	5.497	358.19	3.667	.96
2	.652	323.67	.645	326.01	.656	322.00	.875	286.50	.738	220.07	.551	311.12	.530	315.22
3	.469	253.35	.471	254.48	.454	250.06	.271	279.74	.414	251.90	.329	256.85	.335	259.92
4	.190	294.48	.209	295.97	.197	294.34	.354	236.31	.330	243.09	.255	264.35	.239	282.44
5	.064	328.77	.050	339.70	.038	336.31	.113	54.77	.054	56.35	.045	59.65	.025	72.42
6	.099	62.50	.079	62.10	.078	59.11	.055	84.78	.061	66.73	.078	42.78	.096	60.69
7	.013	137.76	.016	118.28	.015	143.01	.027	73.62	.028	126.82	.033	127.14	.037	147.20
8	.047	92.43	.042	101.77	.034	98.50	.062	122.86	.041	101.04	.032	150.01	.027	144.13
9	.025	5.80	.033	4.44	.024	356.74	.030	29.10	.034	16.71	.029	41.16	.031	59.50
10	.036	205.50	.040	202.40	.039	209.57	.052	141.65	.044	178.27	.066	176.12	.081	201.88

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.050	5.09	1.570	10.05	.593	75.20	.392	47.84	.121	105.56	.488	270.96
2	.498	321.11	.658	327.12	.768	349.16	.611	295.34	.601	313.92	.512	325.50
3	.358	256.67	.499	255.50	.358	249.65	.444	243.56	.419	251.64	.454	249.80
4	.220	278.07	.261	290.62	.297	306.21	.235	294.69	.213	300.05	.224	302.21
5	.004	39.99	.021	225.16	.022	205.12	.006	285.27	.020	251.58	.017	300.87
6	.077	48.25	.115	59.37	.094	48.44	.086	45.22	.079	56.25	.083	57.12
7	.029	145.40	.043	144.67	.027	152.55	.040	154.58	.025	185.64	.024	175.42
8	.020	93.24	.025	101.02	.022	95.74	.022	82.07	.030	75.89	.033	76.55
9	.018	24.99	.019	28.05	.019	18.97	.012	24.22	.011	9.72	.009	348.36
10	.048	204.46	.063	213.49	.054	211.77	.049	228.69	.044	239.32	.042	239.60

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 88	ALPHA-MCL = 2.0	PDP RUN.PT 17.10	
RUN 17	ALPHA-PAR = .5	Q-COMP = .32788	
POINT 6	SIGMA = 180.	V-REF = 200.85	

COMPUTED FREQUENCY = 19.23, K = .1504

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	35.797	-4.463	19.626	-4.422	10.470	-.417	6.879	.248	4.618	.735	5.158	.595	3.767	.831
2	-.098	-.158	-.978	-.029	-.063	-.048	-.262	-.338	-.184	.069	.176	.242	.258	.288
3	.291	.282	.071	.048	.101	.107	.234	-.076	-.072	.303	.051	.010	.027	.129
4	-.460	-.263	-.243	-.181	-.074	-.116	.099	-.061	-.109	-.086	.053	-.105	.119	-.064
5	.183	.274	.050	.150	.010	.120	-.019	.115	-.034	.084	-.075	.063	-.082	.035
6	-.092	.011	-.044	-.004	-.005	-.020	.007	.020	-.007	-.058	.004	.015	.018	-.006
7	.053	.037	.009	.048	.007	.052	-.015	.048	.005	.022	-.024	.039	-.022	.005
8	-.063	.060	-.033	.017	-.047	-.024	-.039	-.028	-.032	-.046	-.021	-.044	-.002	-.028
9	-.000	.012	.018	.015	.006	.027	.001	.041	.001	.016	-.035	.023	-.006	.007
10	-.021	.114	-.031	.052	-.052	.041	-.065	.002	-.045	.019	-.046	.006	-.012	-.012

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	3.211	.621	2.167	.490	1.675	-.168
2	-.264	-.166	-.118	-.072	-.095	.114
3	-.028	.336	-.006	.056	-.002	.001
4	.020	-.041	.015	.004	.038	-.010
5	-.053	.028	-.054	-.002	-.027	.001
6	.019	-.018	.007	-.004	.005	.002
7	-.026	.008	-.017	-.017	-.012	-.007
8	.055	-.025	.016	-.012	.013	-.002
9	-.014	.003	-.022	-.001	-.015	-.001
10	.000	-.021	.014	-.023	.013	-.017

N	CNREAL	CNIMAG
1	6.752	-.095
2	-.120	.014
3	.050	.079
4	-.013	-.079
5	-.028	.073
6	-.001	-.008
7	-.009	.024
8	-.019	-.022
9	-.003	.015
10	-.028	.009

N	CMREAL	CMIMAG
1	1.485	-.235
2	-.036	-.019
3	.016	.007
4	-.020	-.013
5	.009	.016
6	-.004	-.000
7	.003	.006
8	-.006	.001
9	.002	.003
10	-.006	.007

*** STABILITY PARAMETER

XI = .2351

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.718	-.315	2.738	-.276	-8.595	1.066	-2.828	.131	7.608	-1.382
2	.476	-.473	.467	-.195	.655	-1.071	.580	-.537	.312	-.666
3	-.180	-.464	-.239	-.519	-.012	-.610	-.119	-.524	-.008	-.404
4	-.069	-.227	-.109	-.335	.119	-.146	.027	-.181	.065	-.277
5	.019	-.014	-.056	.008	-.004	-.137	.024	-.057	-.131	-.091
6	.087	.070	.116	.097	.081	.108	.074	.074	.018	.096
7	-.028	-.015	-.014	.009	-.051	-.057	-.015	-.012	-.009	-.057
8	-.008	.052	.005	.009	.050	.059	.001	.035	.018	.014
9	.007	.007	.025	.034	.032	-.004	.029	.000	.055	.038
10	-.044	-.022	-.052	.015	-.037	-.061	-.025	-.025	-.031	-.033

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 88 ALPHA-MCL = 2.0 POP RUN.PT 17.10
RUN 17 ALPHA-BAR = .5 Q-COMP = .32788
POINT 6 SIGMA = 180. V-REF = 200.85
COMPUTED FREQUENCY = 19.23, K = .1504

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	36.074	352.89	20.118	347.30	10.478	357.72	6.884	2.06	4.676	9.04	5.192	6.59	3.858	12.44
2	.186	238.07	.979	181.70	.079	217.19	.428	232.19	.197	159.43	.259	53.99	.387	48.12
3	.405	44.15	.085	34.23	.147	46.41	.246	342.02	.311	103.45	.052	10.79	.132	78.03
4	.530	209.78	.304	216.68	.137	237.39	.116	328.22	.139	218.46	.118	297.05	.135	331.56
5	.329	56.33	.159	71.47	.121	85.35	.117	80.34	.091	111.85	.098	139.91	.089	156.95
6	.093	173.15	.045	185.11	.021	256.72	.021	71.79	.059	263.56	.016	74.18	.019	342.30
7	.065	35.05	.048	79.76	.052	82.36	.051	107.53	.023	76.25	.046	121.67	.023	168.48
8	.087	136.15	.037	153.05	.053	207.03	.048	215.64	.056	234.77	.048	244.33	.028	266.92
9	.012	90.21	.023	39.21	.028	77.75	.041	88.45	.016	86.46	.023	103.45	.009	132.74
10	.116	100.44	.061	120.55	.067	141.65	.065	178.05	.049	157.69	.047	172.66	.017	223.58

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.270	10.95	2.221	12.74	1.683	354.28
2	.312	212.11	.138	211.58	.148	129.81
3	.046	127.78	.056	96.17	.002	148.68
4	.045	295.59	.016	13.17	.039	345.62
5	.060	152.57	.054	181.69	.027	177.32
6	.027	316.12	.008	326.54	.005	26.36
7	.027	162.70	.024	224.37	.014	209.63
8	.025	281.71	.020	322.31	.013	351.99
9	.014	169.77	.022	181.85	.015	182.01
10	.021	271.16	.027	302.63	.021	307.63

N	CN-MAG	PHIN
1	6.753	359.19
2	.121	173.24
3	.093	57.36
4	.080	260.86
5	.078	111.05
6	.048	263.43
7	.026	110.37
8	.029	229.36
9	.016	102.11
10	.030	162.89

N	CM-MAG	PHIM
1	1.503	351.00
2	.041	207.90
3	.018	23.51
4	.024	213.34
5	.018	60.57
6	.004	185.64
7	.006	62.45
8	.006	172.72
9	.004	50.17
10	.009	131.01

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.737	353.39	2.751	354.24	2.661	172.93	2.831	177.35	7.732	349.70
2	.671	315.22	.506	337.39	1.255	301.47	.790	317.18	.736	295.12
3	.498	248.74	.571	245.29	.610	268.84	.538	257.25	.404	268.93
4	.237	253.14	.352	251.91	.188	309.23	.183	278.42	.285	283.24
5	.023	323.66	.056	172.16	.137	268.36	.061	292.65	.160	218.55
6	.111	38.80	.151	39.94	.135	53.06	.105	44.70	.098	79.59
7	.032	209.00	.017	147.28	.076	228.21	.019	218.29	.057	260.98
8	.053	99.27	.011	61.20	.078	49.58	.036	88.90	.023	37.07
9	.010	44.16	.042	53.63	.033	353.58	.029	.25	.067	34.67
10	.049	206.97	.054	164.07	.071	238.43	.035	225.73	.046	226.70

*** STABILITY PARAMETER

* XI = .2351 *

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE 5

MODE 1 DATA FOR α_{MCL} = 2 deg, $\bar{\alpha}$ = 2 deg

σ (deg)	k	page
-135	.0717	116
"	.1225	120
"	.1519	124
-90	.0722	128
"	.1218	132
"	.1504	136
-45	.0707	140
"	.1214	144
"	.1508	148
0	.0724	152
"	.1228	156
"	.1491	160
45	.0724	164
"	.1223	168
"	.1506	172
90	.0721	176
"	.1222	180
"	.1499	184
135	.0716	188
"	.1224	192
"	.1516	196
180	.0724	200
"	.1217	204
"	.1498	208

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 32 ALPHA-MCL = 2.0 PDP RUN.PT 8.03
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .32236
POINT 1 SIGMA =-135. V-REF = 199.10
COMPUTED FREQUENCY = 9.09, K = .0717

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.343	6.120	-7.326	1.017	-4.253	.013	-3.033	-.541	-2.813	-1.057	-2.968	-1.661	-2.971	-1.924
2	-2.861	-4.266	-.379	-.018	-.398	.022	-.408	.052	-.437	.033	-.517	.051	-.511	.181
3	.665	-.518	.165	-.008	.243	-.095	.257	-.108	.284	-.150	.260	-.127	.330	-.083
4	-.629	-.333	.136	-.051	.158	-.349	.143	-.052	.113	-.071	.082	-.015	.105	-.065
5	.198	-.666	.063	.033	.043	-.001	.034	-.026	.008	-.045	.027	-.015	.020	-.016
6	.043	.095	.085	.037	.118	.029	.109	.023	.073	.036	.079	.080	.087	.051
7	-.301	-.367	-.006	.043	.010	.056	.003	.037	-.032	.037	-.006	.051	-.006	.052
8	.182	-.141	.019	.028	.034	.008	.030	-.003	.018	.018	.029	.044	.018	.033
9	-.183	-.059	-.016	-.014	.010	-.003	-.001	-.012	-.029	.003	-.018	-.011	-.003	-.014
10	.040	-.250	-.003	.003	-.003	.003	-.009	-.013	-.006	.004	.017	.014	-.006	.009

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.383	-1.764	-1.794	-1.587	-1.369	-1.377	15.835	-5.271	8.656	-3.798	5.022	-1.897	3.401	-1.398
2	-.475	.199	-.517	.202	-.532	.185	-1.726	-1.325	-1.328	-.064	-.469	.170	-.403	.245
3	.286	-.113	.296	-.106	.292	-.101	.328	.036	.216	-.644	.315	-.141	.306	-.121
4	.112	-.043	.101	-.047	.099	-.050	.131	-.123	-.051	.195	.040	-.090	.089	-.087
5	.023	-.024	.022	-.022	.027	-.024	-.049	-.063	-.190	-.095	.041	.015	.035	-.032
6	.084	.051	.072	.057	.069	.050	.010	.151	.133	.195	.071	.064	.045	.082
7	-.007	.058	-.007	.058	.005	.055	.098	.086	-.036	.089	.025	.052	.048	.059
8	.022	.022	.017	.028	.019	.028	.018	.012	.088	.040	.031	.026	.024	.019
9	-.012	-.007	-.008	-.012	-.004	-.021	-.039	.014	-.047	.018	-.022	-.011	-.014	-.012
10	.005	.006	.003	.012	.000	.005	.003	.057	.029	.020	.001	.028	-.003	.013

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.007	-.925	1.697	-.686	.862	-.591	.592	-.652	.424	-.584	.256	-.515
2	-.372	.202	-.477	.198	-.401	.171	-.545	.088	-.679	.096	-.812	.105
3	.248	-.075	.297	-.077	.268	.014	.284	-.023	.256	-.063	.228	-.103
4	.103	-.067	.138	-.084	.169	-.101	.063	-.061	.089	-.050	.114	-.039
5	.035	-.025	.040	-.020	.073	.005	.062	.009	.047	.009	.032	.009
6	.058	.063	.078	.066	.071	-.000	.057	.089	.059	.066	.061	.043
7	.022	.037	.018	.053	.021	.043	.019	.058	.014	.052	.038	.047
8	.023	.022	.035	.029	.009	.005	.048	.048	.037	.037	.025	.026
9	-.013	-.007	-.015	-.012	-.017	-.010	-.011	-.016	-.008	-.015	-.005	-.015
10	-.001	.006	-.002	.006	-.023	.018	.013	.010	.011	.008	.009	.007

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 32 ALPHA-MCL = 2.0 PDP RUN.PT 8.03
RUN 8 ALPHA-PAR = 2.0 Q-COMP = .32236
POINT 1 SIGMA =-135. V-REF = 199.10
COMPUTED FREQUENCY = 9.09, M = .0717

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.100	165.89	7.396	172.10	4.253	179.83	3.081	190.11	3.005	200.59	3.419	209.06	3.539	212.92
2	5.137	236.16	.379	182.69	.398	176.88	.411	172.70	.438	175.66	.520	174.37	.543	160.50
3	.843	322.09	.165	357.08	.261	338.64	.279	337.15	.321	332.16	.289	334.07	.340	345.91
4	.712	207.88	.145	339.55	.165	342.80	.152	340.05	.133	327.62	.084	349.42	.123	328.04
5	.695	286.59	.072	27.81	.043	358.72	.043	321.99	.046	279.50	.031	329.79	.025	321.58
6	.104	65.92	.093	23.59	.121	13.73	.111	11.69	.082	25.91	.113	45.47	.101	30.40
7	.474	230.65	.043	97.53	.057	79.99	.037	85.59	.049	131.08	.052	97.20	.052	96.91
8	.230	322.11	.033	56.39	.035	13.48	.030	354.80	.025	45.41	.053	55.98	.037	61.96
9	.192	197.79	.021	221.40	.010	345.54	.012	266.70	.029	174.43	.021	212.15	.014	258.05
10	.253	279.08	.004	132.87	.004	137.57	.016	234.38	.007	147.56	.022	38.98	.010	121.71

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.965	216.52	2.395	221.49	1.942	225.16	16.689	341.59	9.636	336.79	5.308	339.30	3.677	337.66
2	.515	157.27	.555	158.66	.563	160.85	2.176	217.51	1.330	182.76	.499	160.13	.472	148.71
3	.308	338.45	.315	340.21	.309	340.93	.330	6.35	.679	288.55	.345	335.91	.329	338.49
4	.120	338.95	.112	335.29	.111	333.22	.180	316.80	.201	104.54	.099	293.69	.125	315.71
5	.033	314.12	.032	315.08	.036	318.61	.080	231.87	.213	206.45	.044	19.67	.047	318.04
6	.098	31.55	.092	38.66	.085	35.68	.152	86.09	.236	55.74	.096	41.80	.094	61.04
7	.058	97.34	.058	96.96	.055	84.47	.130	41.17	.096	112.10	.057	63.73	.077	50.92
8	.031	45.46	.033	58.40	.034	55.79	.021	32.87	.097	24.29	.040	39.70	.031	38.35
9	.014	208.82	.014	236.57	.021	258.09	.041	160.45	.050	158.94	.024	206.13	.018	220.34
10	.007	50.89	.012	75.01	.005	89.60	.057	87.04	.035	34.29	.028	87.29	.014	104.39

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.210	335.26	1.914	332.43	1.045	325.56	.881	312.23	.721	305.99	.575	296.41
2	.423	151.43	.516	157.45	.436	156.87	.552	170.86	.685	171.91	.819	172.62
3	.259	343.21	.307	345.41	.268	3.06	.285	355.32	.264	346.20	.250	335.82
4	.123	326.88	.162	328.71	.197	329.15	.088	316.05	.102	330.72	.121	341.34
5	.043	324.09	.044	333.51	.073	3.89	.063	7.95	.048	10.39	.033	15.07
6	.086	47.16	.102	40.18	.071	359.76	.105	57.52	.089	48.33	.075	35.36
7	.043	59.71	.056	71.08	.048	64.48	.061	71.55	.054	75.34	.048	80.18
8	.032	44.36	.047	37.50	.011	26.74	.068	45.39	.052	45.64	.036	46.12
9	.015	207.13	.019	216.95	.020	211.01	.019	234.88	.017	243.05	.016	253.02
10	.006	98.26	.007	109.39	.029	141.17	.016	37.11	.014	37.93	.011	39.10

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 32 ALPHA-MCL = 2.0 PDP RUN.PT 8.03
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .32236
POINT 1 SIGMA =-135. V-REF = 199.10
COMPUTED FREQUENCY = 9.09, K = .0717

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	40.178	-11.391	16.181	-4.815	9.275	-1.910	6.434	-.857	4.820	.132	4.685	.775	3.833	1.333
2	1.134	2.941	-.949	-.046	-.071	.148	.005	.193	.066	.169	.040	.147	.110	-.010
3	-.336	.554	.051	-.635	.072	-.046	.049	-.012	-.036	.075	.037	.049	-.062	.097
4	.760	.210	-.187	.246	-.118	-.041	-.054	-.035	-.009	.004	.056	-.069	.064	-.036
5	-.248	.604	-.254	-.128	-.002	.016	.001	-.005	.027	.020	.013	-.004	.053	.021
6	-.032	.056	.048	.158	-.046	.035	-.064	.059	-.015	.027	-.001	-.015	-.017	-.052
7	.398	.452	-.030	.046	.016	-.004	.045	.023	.054	.000	.025	.002	.027	-.008
8	-.164	.153	.069	.012	-.003	.018	-.006	.022	.005	.004	.008	-.015	-.008	-.028
9	.144	.372	-.031	.032	-.032	-.008	-.013	.000	.015	-.010	.002	-.000	-.014	.004
10	-.037	.307	.032	.016	.004	.025	.006	.026	.005	.002	-.020	-.008	-.017	.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.975	1.112	2.218	1.003	1.625	.862
2	-.070	-.111	-.162	-.106	-.280	-.080
3	-.002	.090	-.049	.044	-.064	-.002
4	-.049	-.018	-.013	-.033	.015	.011
5	.040	.032	.025	.031	.005	.032
6	-.027	.037	-.013	.009	-.008	-.006
7	.027	-.300	.021	-.006	.003	-.008
8	.026	.326	.019	.009	.006	-.002
9	.001	-.009	.008	-.003	-.000	.006
10	.008	.004	.008	-.004	.009	.002

N	CNREAL	CNIMAG
1	5.419	-.450
2	-.058	.144
3	-.009	.007
4	.002	.001
5	-.007	.023
6	-.019	.023
7	.035	.018
8	.004	.008
9	-.002	.002
10	.000	.017

N	CMREAL	CMIMAG
1	1.402	-.519
2	.000	.064
3	.004	-.017
4	-.001	.009
5	-.014	.003
6	-.001	.009
7	.006	.009
8	-.002	.004
9	.000	.002
10	.001	.007

*** STABILITY PARAMETER

```
*                  *
*  XI =     .5194  *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.565	-1.865	2.142	-1.656	-9.790	1.089	-2.360	-.757	6.217	4.374
2	-.664	.342	-.426	.824	-1.519	-2.140	-.586	.040	1.202	-.805
3	.392	-.093	.481	-.259	.684	-.312	.381	-.123	.211	-.035
4	.156	-.110	.133	-.070	-.004	-.140	.048	-.046	.221	.125
5	.054	-.008	.084	-.019	.157	-.173	.080	.024	.088	.031
6	.076	.079	.098	.089	.192	.083	.068	.050	-.002	.027
7	-.008	.060	.022	.029	-.039	.055	.022	.065	.074	.098
8	.038	.043	.037	.025	.043	.018	.011	.018	.096	-.007
9	-.012	.002	-.041	-.007	-.050	-.034	-.016	-.020	.021	.040
10	-.005	.015	-.002	.054	.020	-.040	-.006	.011	.008	.041

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

DCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 32 ALPHA-MCL = 2.0 PDP RUN.PT 8.03
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .32236
POINT 1 SIGMA =-135. V-REF = 199.10
COMPUTED FREQUENCY = 9.09, K = .0717

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	41.761	344.17	16.883	343.43	9.469	348.36	6.491	352.42	4.022	1.57	4.748	9.39	4.058	19.17
2	3.152	68.91	.950	162.79	.164	115.75	.193	88.61	.181	68.84	.153	74.65	.111	354.95
3	.649	121.34	.637	274.59	.085	327.50	.050	345.92	.083	115.71	.062	53.11	.115	122.45
4	.788	15.42	.308	127.23	.125	199.30	.064	213.13	.010	156.70	.089	309.28	.073	331.01
5	.652	112.29	.284	206.79	.016	97.57	.005	284.61	.034	36.09	.014	341.74	.057	21.44
6	.065	119.90	.165	73.20	.058	142.99	.087	137.05	.031	118.85	.015	265.44	.054	251.93
7	.603	48.61	.055	123.37	.016	348.45	.051	26.60	.054	.52	.025	5.11	.028	342.75
8	.224	136.97	.070	9.67	.018	100.99	.023	105.11	.006	39.99	.017	299.27	.029	253.92
9	.161	26.78	.045	133.72	.033	194.45	.013	178.80	.018	327.64	.002	348.36	.015	164.67
10	.309	96.68	.036	27.41	.026	80.35	.027	77.83	.006	22.96	.021	202.15	.019	151.59

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.176	20.50	2.434	24.34	1.839	27.95
2	.131	238.00	.193	213.13	.291	195.87
3	.070	91.53	.059	132.49	.064	181.37
4	.052	199.88	.013	193.57	.019	37.08
5	.051	39.21	.040	51.57	.033	81.86
6	.046	125.94	.016	145.16	.010	218.04
7	.027	359.66	.022	344.34	.009	288.61
8	.037	45.33	.021	25.50	.006	340.59
9	.009	275.10	.003	271.87	.006	92.65
10	.009	26.49	.008	334.84	.009	14.79

N	CN-MAG	PHIN
1	6.435	355.99
2	.152	109.07
3	.012	141.48
4	.002	18.61
5	.024	107.65
6	.029	129.78
7	.040	26.56
8	.009	65.88
9	.003	130.43
10	.017	89.68

N	CM-MAG	PHIM
1	1.495	339.67
2	.064	89.69
3	.018	284.13
4	.009	94.32
5	.014	168.64
6	.009	97.34
7	.011	57.54
8	.004	114.54
9	.002	83.39
10	.007	85.50

*** STABILITY PARAMETER

XI = .5199

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.172	323.96	2.707	322.29	9.850	173.65	2.478	197.79	7.601	35.13
2	.747	152.75	.928	117.37	2.624	234.64	.587	176.14	1.447	326.19
3	.403	346.64	.546	331.65	.752	335.48	.400	342.06	.214	350.67
4	.191	324.74	.150	332.21	.140	268.39	.067	316.00	.254	29.51
5	.055	351.72	.086	347.36	.234	312.35	.089	16.66	.094	19.44
6	.109	46.24	.132	42.13	.209	23.29	.084	36.15	.027	93.26
7	.061	97.37	.036	52.27	.068	125.17	.069	71.64	.122	53.01
8	.058	48.55	.045	34.33	.047	23.16	.021	58.09	.096	356.05
9	.012	168.94	.041	190.44	.061	214.42	.026	231.09	.096	62.03
10	.016	107.06	.054	92.39	.044	296.09	.013	117.01	.042	78.54

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 34 ALPHA-MCL = 2.0 PDP RUN.PT 8.06
RUN 8 ALPHA-FAR = 2.0 Q-COMP = .32268
POINT 3 SIGMA =-135. V-REF = 199.19
COMPUTED FREQUENCY = 15.53, K = .1225

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.131	7.237	-7.369	1.642	-4.379	.573	-3.177	-.034	-2.983	-.540	-3.181	-1.113	-3.116	-1.312
2	-2.857	-3.761	-.103	.024	-.106	.005	-.097	-.010	-.095	-.053	-.155	-.031	-.092	.076
3	.404	-.515	-.041	-.012	.005	-.100	-.002	-.117	-.047	-.144	-.078	-.087	-.042	-.085
4	-.761	-.209	.061	-.009	.075	.006	.057	.001	.025	-.005	.024	.046	.034	-.005
5	-.110	-.698	-.029	.016	-.026	-.009	-.033	-.028	-.063	-.008	-.019	.012	-.022	.016
6	-.094	-.047	-.001	-.050	.032	-.063	.028	-.058	-.003	-.030	.013	-.020	-.002	-.034
7	-.214	-.482	.062	-.018	.059	-.001	.031	-.019	.001	-.019	.037	-.008	.053	.001
8	.248	-.133	.044	-.002	.038	-.027	.023	-.027	.020	.047	.024	.006	.014	-.003
9	-.045	-.037	.057	.018	.056	.021	.038	.021	.044	.033	.031	.031	.028	.021
10	.052	-.300	.048	.007	.039	.010	.017	.011	.029	.024	.037	.025	.029	.044

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.524	-1.178	-1.933	-.981	-1.516	-.747	15.595	-4.887	8.328	-3.312	4.880	-1.223	3.244	-.649
2	-.070	.095	-.101	.080	-.128	.057	-1.285	-1.767	-.798	-.023	-.072	-.070	.005	.020
3	-.063	-.096	-.055	-.096	-.062	-.089	-.137	-.006	-.239	-.437	.018	-.165	-.007	-.149
4	.042	.001	.038	-.003	.029	.003	.046	.070	.079	.245	-.039	-.000	.010	.008
5	-.024	.020	-.024	.023	-.023	.014	.062	.026	-.101	.061	.025	.055	.004	.010
6	-.001	-.031	-.001	-.024	.002	-.025	.030	.065	.122	.038	.030	.018	.002	.029
7	.040	-.004	.040	-.006	.045	-.002	.010	.035	-.015	.046	.017	-.028	.043	-.033
8	.016	.013	.017	.011	.018	.003	-.026	.025	.020	.005	.015	.054	.017	.048
9	.022	.015	.022	.009	.024	.008	-.062	.038	-.020	.046	-.005	.006	.020	.007
10	.029	.042	.027	.051	.028	.043	-.020	.087	-.007	.035	-.004	.053	-.010	.032

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.845	-.234	1.479	-.020	.687	.185	.381	.156	-.263	-.270	.123	-.002
2	-.009	.026	-.040	.003	-.013	.001	-.143	-.045	-.148	-.078	-.255	.116
3	-.018	-.100	-.031	-.100	.014	-.019	-.005	-.051	-.025	-.105	-.063	-.071
4	.035	-.001	.047	-.008	.064	-.058	-.014	.030	-.016	.041	.024	-.001
5	-.002	.008	-.001	.023	.034	.010	.021	.028	-.028	.015	.006	.017
6	.012	.010	.027	-.009	-.015	-.047	.028	.020	.013	.001	.004	-.008
7	.024	-.033	.015	-.050	.019	-.037	.033	-.033	.019	-.006	.027	-.020
8	.017	.040	.026	.067	-.007	.050	.041	.048	.020	.035	.020	.032
9	.021	.002	.029	.003	.029	.014	.045	-.000	.032	.007	.023	.003
10	-.004	.019	-.005	.075	.001	.045	.010	.018	.006	.023	.009	.020

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 34 ALPHA-MCL = 2.0 POP RUN.PT 8.06
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .32268
POINT 3 SIGMA =-135. V-REF = 199.19
COMPUTED FREQUENCY = 15.53, K = .1225

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.193	163.31	7.568	167.47	4.416	172.55	3.178	180.62	3.031	190.26	3.370	199.28	3.380	202.83
2	4.757	232.64	.106	167.00	.106	177.52	.097	185.90	.109	209.27	.358	191.19	.120	140.22
3	.655	308.11	.043	195.78	.100	273.10	.117	269.06	.151	252.02	.117	228.25	.095	243.98
4	.789	195.34	.062	351.90	.075	4.30	.057	1.29	.025	349.49	.052	62.88	.035	351.52
5	.706	261.01	.033	151.03	.027	199.47	.043	220.43	.063	186.92	.022	148.68	.027	145.17
6	.105	206.77	.050	268.52	.071	297.21	.065	295.76	.030	263.60	.024	303.38	.034	266.52
7	.527	246.11	.064	343.87	.059	359.23	.036	329.14	.019	273.18	.038	348.23	.053	1.53
8	.281	331.68	.044	357.98	.046	323.90	.035	310.85	.051	66.71	.026	19.37	.015	349.86
9	.058	219.37	.060	17.37	.062	19.79	.043	28.49	.055	37.07	.044	45.45	.035	37.27
10	.305	279.91	.049	7.69	.040	13.87	.020	34.16	.038	90.17	.045	34.53	.053	56.39

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.785	205.03	2.168	206.91	1.690	206.24	16.343	342.60	8.963	338.31	5.031	345.93	3.308	348.69
2	.118	126.58	.129	141.63	.140	156.01	2.185	233.96	.798	181.69	.101	224.21	.021	76.33
3	.115	236.74	.113	238.77	.109	235.18	.137	182.38	.498	241.33	.166	276.09	.149	267.43
4	.042	1.96	.038	355.41	.029	5.68	.084	56.50	.258	72.07	.039	180.60	.013	39.73
5	.031	140.22	.033	137.00	.027	147.33	.068	22.93	.118	148.89	.060	35.73	.011	68.01
6	.031	267.38	.024	268.32	.025	274.22	.072	65.68	.127	17.27	.035	30.67	.029	86.96
7	.040	353.76	.041	351.09	.045	357.46	.036	73.95	.048	108.18	.032	300.93	.054	322.60
8	.020	38.36	.017	39.40	.019	10.40	.036	136.69	.020	13.25	.056	74.96	.051	70.76
9	.027	33.52	.024	23.01	.026	18.82	.073	148.89	.051	113.86	.010	123.97	.021	20.13
10	.051	55.51	.058	62.40	.051	57.25	.089	102.87	.036	100.57	.054	94.64	.033	107.28

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.859	352.78	1.479	359.24	.711	15.09	.411	22.31	.377	225.75	.123	358.85
2	.028	107.90	.040	175.54	.013	173.70	.150	197.66	.167	207.86	.240	155.53
3	.102	259.56	.105	252.77	.024	305.94	.051	264.13	.111	257.13	.095	228.40
4	.035	358.99	.048	350.32	.086	318.21	.033	114.73	.044	110.87	.024	356.67
5	.008	106.34	.023	91.97	.035	16.28	.035	52.38	.032	152.66	.019	69.61
6	.016	39.16	.025	339.78	.049	252.57	.034	36.03	.013	2.36	.009	296.16
7	.041	306.27	.052	267.09	.042	296.91	.046	314.70	.020	341.78	.034	323.80
8	.043	67.04	.072	68.95	.050	97.93	.063	49.19	.040	60.57	.037	58.11
9	.022	21.19	.029	6.59	.032	26.46	.045	359.63	.033	13.13	.023	8.37
10	.020	112.89	.026	106.62	.045	88.39	.021	61.30	.024	75.12	.022	66.37

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 34 ALPHA-MCL = 2.0 PDP RUN.PT 8.06
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .32268
POINT 3 SIGMA =-135. V-REF = 199.19
COMPUTED FREQUENCY = 15.53, K = .1225

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	39.726	-12.124	15.716	-4.954	9.260	-1.796	6.421	-.614	4.827	.306	4.660	1.093	3.802	1.497
2	1.601	2.014	-.695	-.047	.033	-.075	.102	.030	.087	.080	.115	.034	.078	-.075
3	-.541	.509	-.197	-.425	.012	-.065	-.005	-.032	.028	.043	.047	-.013	.055	.066
4	.007	.278	.018	.254	-.115	-.006	-.047	.007	.010	.004	.024	-.054	.030	-.052
5	.173	.724	-.072	.045	.050	.064	.037	.038	.060	.015	.018	.011	.056	-.006
6	.123	.113	.123	.087	-.002	.081	-.027	.087	.016	.049	.010	.011	-.013	-.013
7	.224	.517	-.076	.063	-.043	-.027	.012	-.014	.023	-.014	-.022	-.042	-.034	-.038
8	-.274	.158	-.325	.006	-.023	.082	-.006	.075	-.003	-.007	.032	.059	-.021	.053
9	-.017	.074	-.078	.028	-.064	-.013	-.018	-.014	-.023	-.025	-.032	-.028	.001	-.007
10	-.072	.387	-.055	.029	-.043	.044	-.026	.020	-.037	-.006	-.044	-.000	-.028	.001

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.904	1.334	1.670	.711	1.638	.745
2	-.072	-.140	-.047	-.158	-.127	.059
3	.058	.045	.034	-.012	-.001	.018
4	-.056	.029	-.053	.044	-.005	-.004
5	.046	.008	-.004	-.008	.029	.003
6	.029	.051	.014	.024	.002	.018
7	-.007	-.029	-.022	.000	-.018	-.018
8	.026	.035	.067	.024	.001	.028
9	.023	-.015	.010	-.002	-.002	-.005
10	-.019	-.024	-.021	-.028	-.019	-.023

N	CNREAL	CNIMAG
1	6.329	-.356
2	.033	.044
3	-.005	-.006
4	.008	.018
5	.035	.040
6	.015	.042
7	-.009	-.001
8	-.013	.044
9	-.015	-.009
10	-.033	.014

N	CMREAL	CMIMAG
1	1.392	-.522
2	.014	.034
3	-.017	-.011
4	.009	.012
5	.001	.016
6	.004	.008
7	.002	.011
8	-.006	.004
9	-.007	.002
10	-.003	.011

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.301	-1.035	1.961	-.839	-9.816	2.031	-2.546	-.074	6.154	5.051
2	-.160	.154	.092	.721	-1.239	-2.047	-.150	-.003	1.507	-1.021
3	.026	-.113	.108	-.246	.282	-.362	.032	-.153	-.032	-.090
4	.041	-.021	.012	.015	-.055	-.068	-.016	.040	.194	.243
5	.004	-.001	.036	.019	.036	-.130	-.006	.018	.082	.020
6	.019	.021	.012	.042	.049	-.058	-.000	-.010	-.060	-.036
7	.014	.003	.059	.016	.041	-.099	.067	-.005	.093	.009
8	.011	.014	.041	.015	.082	-.057	.021	-.011	.061	-.036
9	.031	.026	.019	.026	.063	-.029	.051	.036	.062	.021
10	.021	.032	.037	.025	.072	-.014	.032	.043	.042	.069

*** STABILITY PARAMETER

XI = .5218

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 34	ALPHA-MCL = 2.0	PDP RUN.PT	8.06
RUN 8	ALPHA-BAR = 2.0	Q-COMP =	.32268
POINT 3	SIGMA =-135.	V-REF =	199.19

COMPUTED FREQUENCY = 15.53, K = .1225

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	41.535	343.03	16.479	342.50	9.432	349.02	6.450	354.54	4.437	3.63	4.787	13.20	4.086	21.49
2	2.573	51.51	.697	183.89	.082	293.97	.106	16.61	.118	42.64	.120	16.36	.109	316.30
3	.743	136.74	.469	245.08	.066	280.60	.032	261.43	.052	57.04	.049	344.56	.086	50.01
4	.853	19.03	.255	85.85	.115	183.03	.047	171.28	.011	21.08	.059	293.79	.060	299.79
5	.744	76.59	.085	148.06	.081	51.80	.053	45.77	.062	14.27	.021	31.51	.056	354.24
6	.167	42.43	.151	35.41	.081	91.63	.091	106.95	.043	68.75	.015	46.82	.018	226.33
7	.564	66.61	.099	140.37	.050	212.35	.018	309.66	.027	329.12	.047	241.97	.051	228.72
8	.316	149.98	.026	166.01	.085	105.67	.075	94.67	.008	244.82	.059	88.23	.057	112.03
9	.076	103.25	.083	160.00	.065	191.38	.023	216.16	.034	227.33	.028	266.42	.007	277.96
10	.394	100.58	.062	152.44	.062	134.86	.033	142.35	.037	188.91	.044	180.16	.028	177.98

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.196	24.68	1.815	23.06	1.799	24.44
2	.158	242.75	.165	253.4	.140	155.04
3	.073	38.14	.036	340.48	.018	92.72
4	.063	153.00	.069	140.63	.006	221.28
5	.046	9.47	.009	243.78	.029	5.72
6	.058	60.26	.028	60.47	.018	83.98
7	.029	255.88	.022	179.45	.026	224.44
8	.044	54.18	.025	74.57	.028	87.32
9	.027	326.46	.010	350.27	.005	251.98
10	.031	231.55	.035	233.80	.030	230.53

N	CN-MAG	PHIN
1	6.339	356.78
2	.055	52.74
3	.008	231.04
4	.020	65.32
5	.053	49.07
6	.044	70.85
7	.009	186.98
8	.046	106.49
9	.018	210.27
10	.036	156.70

N	CM-MAG	PHIM
1	1.486	339.45
2	.037	67.08
3	.020	212.80
4	.015	51.65
5	.016	87.61
6	.009	63.54
7	.011	77.77
8	.007	349.20
9	.007	165.92
10	.011	106.71

*** STABILITY PARAMETER
* XI = .5218 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.523	335.77	2.133	336.84	10.024	168.31	2.547	181.56	7.961	39.37
2	.222	136.11	.727	82.76	2.393	238.80	.180	180.94	1.821	325.90
3	.116	283.22	.269	293.63	.459	307.89	.156	281.71	.096	250.21
4	.046	333.29	.019	50.87	.087	231.24	.043	111.20	.311	51.43
5	.004	348.31	.038	15.34	.135	285.72	.019	108.62	.084	19.06
6	.028	46.88	.044	73.79	.076	309.93	.010	267.74	.070	211.01
7	.014	11.07	.061	15.04	.107	292.57	.067	355.32	.093	5.51
8	.018	52.51	.044	20.49	.100	325.27	.023	331.85	.071	329.67
9	.042	42.19	.032	54.73	.069	335.71	.062	35.56	.065	18.97
10	.038	56.55	.044	34.32	.073	348.91	.054	53.39	.080	58.72

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 37 ALPHA-MCL = 2.0 PDP RUN.PT 8.09
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .31950
POINT 6 SIGMA =-135. V-REF = 198.19
COMPUTED FRECUENCY = 19.17, K = .1519

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.110	7.709	-7.436	1.612	-4.421	.430	-3.196	-.233	-3.016	-.783	-3.224	-1.365	-3.094	-1.582
2	-2.929	-3.695	.025	-.041	.005	-.065	.010	-.082	.012	-.141	-.026	-.101	.025	-.013
3	.365	-.461	.002	.051	.046	-.049	.030	-.064	-.013	-.073	-.046	-.001	.016	-.001
4	-.661	-.077	.117	.009	.112	.008	.084	.006	.042	.016	.062	.073	.037	.009
5	-.169	-.728	-.028	-.019	-.026	-.043	-.041	-.048	-.072	-.014	-.019	-.027	-.025	-.016
6	-.025	-.014	-.027	-.017	.008	-.044	.002	-.060	.037	-.111	.013	-.027	-.025	.005
7	-.314	-.205	.049	-.005	.048	-.013	.025	-.015	-.002	.045	.023	-.016	.055	-.026
8	.055	-.078	-.028	.029	-.021	-.006	-.031	-.008	-.010	.035	-.003	.009	-.011	.009
9	-.055	.082	.035	.012	.040	-.009	.007	-.005	.024	.018	.011	.005	.017	-.019
10	-.261	-.158	-.046	-.005	-.026	-.021	-.043	-.020	-.022	-.032	-.014	-.038	.005	-.003

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.524	-1.430	-1.894	-1.229	-1.489	-.968	15.794	-5.464	8.270	-3.706	4.963	-1.417	3.315	-.794
2	.055	.002	.028	-.014	-.011	-.027	-1.363	-1.853	-.573	.005	.034	-.156	.092	-.071
3	-.021	-.020	-.016	-.014	-.005	-.016	-.093	.088	-.229	-.274	.062	-.102	.035	-.072
4	.045	.018	.033	.017	.031	.024	-.015	.072	.093	.153	-.073	.021	-.009	.028
5	-.020	-.006	-.018	.003	-.017	-.003	.046	.032	-.080	.104	.023	.067	.006	.018
6	.000	-.028	-.013	-.013	-.024	.003	.018	-.055	.084	-.103	.044	-.116	.018	-.090
7	.047	-.018	.053	-.020	.045	-.025	.030	.020	.019	.057	.032	.038	.043	.034
8	-.002	.018	-.001	.007	.006	.011	.061	-.052	.034	-.041	.032	-.006	.021	.002
9	.017	-.020	.023	-.030	.014	-.021	-.062	.004	-.002	.011	.011	-.027	.031	-.029
10	.009	-.019	.027	-.004	.001	-.018	.061	-.019	.019	-.019	.036	.017	.005	-.000

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.879	-.339	1.513	-.146	.721	.088	.407	.018	-.303	-.316	.137	-.246
2	.079	-.063	.069	-.108	.083	-.101	-.028	-.123	-.051	-.133	-.074	.016
3	.022	-.024	.025	-.010	.082	.045	.062	.026	.021	-.017	.019	.009
4	.021	.007	.028	.010	.018	-.040	-.009	.062	-.000	.076	.011	.028
5	-.007	.002	.007	.032	.025	-.012	.028	.001	-.020	.013	.001	-.010
6	.013	-.072	.046	-.152	-.032	-.088	.051	-.069	.020	-.051	.018	-.057
7	.015	.023	.018	.049	.016	.014	.022	.012	.027	.029	.008	.011
8	.022	.012	.021	.011	.003	.033	.031	-.003	.011	.015	.013	.009
9	.030	-.017	.041	-.022	.042	-.016	.032	-.024	.027	-.009	.023	.001
10	-.009	-.004	-.017	.001	.007	.001	-.024	-.027	-.018	-.023	-.024	-.028

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 37 ALPHA-MCL = 2.0 PDP RUN.PT 8.09
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .31950
POINT 6 SIGMA =-135. V-REF = 198.19
COMPUTED FREQUENCY = 19.17, K = .1519

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.312	162.27	7.609	167.77	4.442	174.45	3.204	184.16	3.118	194.54	3.501	202.94	3.474	207.08
2	4.715	231.59	.048	300.76	.065	274.47	.083	276.93	.141	275.02	.104	255.53	.028	332.36
3	.604	307.21	.051	87.57	.069	314.40	.071	294.72	.074	260.00	.046	180.74	.016	355.45
4	.665	186.62	.112	4.65	.113	3.92	.084	4.28	.045	20.99	.096	49.46	.038	13.94
5	.747	256.91	.034	213.36	.051	236.35	.063	229.59	.073	190.99	.033	235.06	.029	211.93
6	.029	210.23	.032	212.31	.044	279.98	.060	272.11	.117	288.41	.030	296.07	.026	168.86
7	.375	213.19	.049	354.10	.050	345.44	.029	328.24	.045	92.66	.029	322.07	.061	334.88
8	.096	305.27	.043	116.97	.022	195.75	.032	195.26	.036	105.65	.010	110.56	.014	141.27
9	.098	123.91	.037	19.50	.042	347.11	.009	323.55	.030	36.22	.013	24.96	.026	312.33
10	.305	211.15	.046	185.96	.034	216.74	.047	204.56	.039	235.04	.040	250.02	.006	326.04

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.901	209.53	2.258	212.98	1.776	213.05	16.713	340.92	9.062	335.86	5.161	344.07	3.408	346.53
2	.055	2.16	.025	324.96	.029	247.40	2.301	233.66	.573	179.48	.156	271.49	.116	322.21
3	.030	223.33	.022	222.30	.017	252.31	.128	136.53	.357	230.04	.120	301.46	.080	296.15
4	.048	21.65	.037	27.06	.039	38.12	.074	101.51	.179	58.81	.076	164.04	.029	108.43
5	.020	195.75	.018	170.63	.018	189.31	.056	35.12	.131	127.42	.073	67.54	.019	71.30
6	.028	270.17	.019	224.30	.024	172.35	.058	287.93	.133	309.10	.124	290.61	.092	281.43
7	.050	338.55	.057	339.47	.052	330.57	.036	33.32	.060	71.72	.050	49.71	.054	38.43
8	.010	100.46	.007	98.79	.012	61.69	.080	319.22	.054	309.92	.033	346.21	.021	5.56
9	.026	310.04	.038	307.15	.025	303.34	.062	176.05	.011	98.40	.029	291.77	.042	317.12
10	.021	296.11	.008	328.42	.010	278.04	.064	342.97	.027	314.61	.040	24.59	.005	355.91

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.909	349.78	1.520	354.50	.727	6.97	.402	2.57	.438	226.26	.282	299.09
2	.101	321.39	.128	302.72	.130	309.34	.126	257.07	.143	249.01	.076	167.75
3	.033	312.30	.027	337.21	.093	28.68	.068	22.94	.027	321.63	.021	25.91
4	.022	18.07	.022	27.19	.044	294.30	.063	97.90	.076	90.22	.031	68.32
5	.007	167.38	.033	78.58	.028	334.89	.028	2.79	.024	145.59	.010	275.83
6	.073	280.25	.159	286.96	.094	250.09	.086	306.12	.055	291.18	.060	287.26
7	.028	58.16	.052	69.92	.021	41.16	.025	28.40	.039	47.01	.014	52.44
8	.026	28.38	.023	28.02	.033	85.32	.031	355.19	.018	55.05	.016	33.15
9	.034	329.50	.047	332.18	.045	339.51	.040	323.86	.029	341.18	.023	2.70
10	.010	204.16	.017	175.18	.007	11.19	.036	228.54	.029	232.64	.036	229.15

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 37 ALPHA-MCL = 2.0 PDP RUN.PT 8.09
RUN 6 ALPHA-PAR = 2.0 G-COMP = .31950
POINT 6 SIGMA =-135. V-REF = 198.19
COMPUTED FREQUENCY = 19.17, K = .1519

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	39.934	-13.172	15.705	-5.318	9.384	-1.846	6.510	-.561	4.897	.454	4.738	1.219	3.815	1.670
2	1.566	1.841	-.598	.046	-.001	-.091	.082	.011	.067	.078	.095	-.007	.057	-.087
3	-.458	.569	-.231	-.325	.014	-.053	.006	-.008	.035	.049	.070	-.010	.066	.046
4	.646	.149	-.019	.144	-.186	.013	-.093	.021	-.021	-.009	-.042	-.063	-.019	-.049
5	.215	.760	-.052	.123	.056	.110	.047	.066	.065	.015	.025	.059	.050	.004
6	.043	-.341	.111	-.086	.036	-.072	.016	-.031	-.024	.039	.033	-.126	-.007	-.093
7	.344	.225	-.037	.062	-.016	.050	.318	.049	.017	-.021	-.005	.067	-.039	.040
8	.006	.026	.054	-.080	.053	-.002	.052	.010	.032	-.022	.024	.002	.014	.025
9	-.037	-.077	-.037	-.001	-.030	-.018	.023	-.023	.005	-.035	.030	-.027	.025	.003
10	.322	.139	.065	-.015	.062	.038	.048	.019	.013	.028	-.003	.039	.002	.005

X =	.774		.850		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.925	1.448	1.591	.913	1.626	.722
2	-.083	-.125	-.071	-.119	-.063	.043
3	.084	.047	.037	-.002	.024	.025
4	-.053	.045	-.033	.060	-.020	.004
5	.047	.007	-.002	.010	.018	-.007
6	.051	-.041	.032	-.038	.041	-.060
7	-.025	.030	-.026	.049	-.037	.036
8	.032	-.012	.012	.008	.007	-.002
9	.016	-.004	.004	.021	.010	.022
10	-.033	-.008	-.025	-.019	-.025	-.017

N	CNREAL	CNIMAG
1	6.376	-.334
2	.028	.036
3	.007	.007
4	-.032	.011
5	.039	.062
6	.026	-.053
7	-.001	.042
8	.030	-.004
9	.008	-.013
10	.021	.014

N	CMREAL	CMIMAG
1	1.403	-.556
2	.013	.033
3	-.018	-.006
4	.003	.006
5	.003	.021
6	.002	.000
7	.008	.004
8	.004	-.002
9	-.003	-.004
10	.013	.005

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.361	-1.283	1.988	-1.174	-9.812	2.007	-2.590	-.311	6.211	4.850
2	-.027	.028	.256	.660	-1.174	-2.095	-.043	-.073	1.586	-1.102
3	.090	-.033	.196	-.196	.321	-.340	.083	-.106	.035	.021
4	.037	-.017	.024	.028	.022	-.088	.006	.054	.156	.297
5	-.027	-.013	.008	-.015	.055	-.162	-.013	-.011	.083	.044
6	-.029	-.045	-.014	-.064	.033	-.039	-.036	-.043	-.097	-.041
7	.046	.005	.343	.007	.022	-.016	.080	.006	.095	.049
8	-.007	.003	.017	.004	-.033	-.017	-.020	.006	-.014	-.033
9	.013	.010	-.006	-.023	.031	-.005	.024	.006	.062	-.043
10	-.018	-.011	-.005	.009	-.074	-.024	-.035	-.007	.006	.018

*** STABILITY PARAMETER

* XI = .5564 *

OCWT PERIODICITY TEST
MODE 1 -- CENTEP BLADE DATA, WALL STATIONS

FILE 37 ALPHA-MCL = 2.0 PDP RUN.PT 8.09
RUN 8 ALPHA-BAR = 2.0 Q-COMP = .31950
POINT 6 SIGMA =-135. V-REF = 198.19
COMPUTED FREQUENCY = 19.17, K = .1519

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	42.022	341.73	16.581	341.29	9.564	348.87	6.534	355.07	4.917	5.18	4.892	14.43	4.164	23.64
2	2.417	49.62	.600	175.55	.091	269.36	.083	7.42	.102	49.50	.096	355.79	.105	303.24
3	.731	128.84	.399	234.50	.055	285.01	.010	306.32	.060	54.19	.071	352.13	.080	35.05
4	.663	13.01	.145	97.51	.186	175.92	.095	167.08	.023	203.66	.076	235.90	.053	248.70
5	.790	74.19	.133	112.82	.123	62.93	.081	54.49	.067	13.39	.064	66.80	.050	4.22
6	.059	316.38	.140	322.15	.081	296.46	.035	297.61	.046	121.53	.130	284.90	.093	265.95
7	.411	33.20	.069	115.44	.053	107.99	.052	69.99	.027	308.03	.067	94.54	.056	134.62
8	.026	77.65	.096	304.14	.053	357.87	.053	11.36	.039	325.10	.024	4.52	.028	61.19
9	.078	264.60	.037	181.81	.035	211.51	.033	315.32	.035	278.75	.060	317.86	.025	7.46
10	.351	23.33	.067	347.44	.073	31.07	.052	21.73	.031	64.50	.039	95.05	.005	71.32

X =	.774		.860		.930	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.264	26.33	1.834	29.84	1.779	23.95
2	.150	236.25	.139	239.06	.076	145.56
3	.096	29.10	.037	356.50	.035	46.44
4	.069	139.91	.068	119.35	.020	168.47
5	.048	8.28	.011	100.79	.020	337.94
6	.065	320.83	.051	311.08	.073	304.56
7	.039	129.40	.055	118.41	.051	135.34
8	.035	339.59	.014	35.79	.008	344.46
9	.016	346.36	.021	79.10	.024	65.92
10	.034	193.69	.031	217.65	.031	214.57

N	CN-MAG	PHIN
1	6.365	357.00
2	.046	51.62
3	.010	42.97
4	.033	161.51
5	.074	57.69
6	.059	295.69
7	.042	91.92
8	.030	351.72
9	.015	301.66
10	.026	36.54

N	CM-MAG	PHIM
1	1.509	338.37
2	.035	67.95
3	.019	197.64
4	.007	65.95
5	.021	82.05
6	.002	13.56
7	.009	27.13
8	.005	328.78
9	.005	233.91
10	.014	20.87

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.687	331.46	2.306	329.44	10.016	168.44	2.609	186.86	7.880	37.99
2	.039	138.44	.708	68.78	2.401	240.73	.085	239.74	1.931	325.22
3	.095	339.93	.277	315.09	.467	313.33	.134	307.93	.041	30.12
4	.041	335.23	.037	50.17	.090	283.85	.054	83.63	.336	62.30
5	.030	205.73	.017	299.44	.171	288.83	.017	221.56	.094	27.98
6	.054	237.79	.065	257.80	.051	310.41	.057	230.04	.106	202.83
7	.046	6.34	.043	8.80	.027	325.00	.081	4.57	.107	27.35
8	.008	156.10	.018	14.70	.037	207.73	.021	163.03	.035	247.00
9	.017	37.49	.024	251.83	.031	351.16	.024	13.50	.075	325.39
10	.021	211.69	.010	117.70	.078	198.24	.035	191.30	.019	72.88

*** STABILITY PARAMETEI
*
* XI = .5564 :
*
****

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

```
FILE    13     ALPHA-MCL = 2.0      PDP RUN.PT    5.04
RUN      5     ALPHA-BAR = 2.0        O-COMP = .31749
POINT    1         SIGMA = -90.        V-REF = 197.56
               COMPUTED FREQUENCY =  9.09,    K = .0722
```

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

N	X = .012-UPPER CPREAL	.012-UPPER CPIMAG	.062-UPPER CPREAL	.062-UPPER CPIMAG	.148-UPPER CPREAL	.148-UPPER CPIMAG	.261-UPPER CPREAL	.261-UPPER CPIMAG	.392-UPPER CPREAL	.392-UPPER CPIMAG	.530-UPPER CPREAL	.530-UPPER CPIMAG	.661-UPPER CPREAL	.661-UPPER CPIMAG
1	-21.181	10.136	-6.829	2.181	-4.110	.625	-2.907	-.222	-2.523	-.984	-2.425	-1.841	-2.147	-2.255
2	-3.845	-2.595	-.064	.033	-.071	.087	-.066	.103	-.078	.114	-.137	.172	-.163	.282
3	.419	-.996	.240	-.158	.240	-.249	.234	-.264	.219	-.300	.204	-.246	.272	-.218
4	-.473	.504	.087	.012	.116	-.018	.096	-.023	.058	-.017	.079	.044	.078	-.011
5	-.566	-.317	.057	.018	.026	.005	-.000	-.004	-.034	.017	.014	.029	.000	.005
6	.017	-.019	.016	.011	.027	-.033	.028	-.035	.027	.000	.078	-.009	.046	.020
7	-.295	.338	-.017	.047	-.010	.019	-.034	.027	-.043	.055	-.046	.019	-.020	.015
8	-.215	-.212	.022	-.032	-.004	-.029	-.021	-.026	.002	-.006	.014	-.024	.016	-.016
9	.004	.131	.003	.025	.008	-.005	.009	.008	.040	.038	.027	.034	.012	.015
10	-.114	.153	.026	-.017	.020	-.017	-.000	.003	.016	-.005	.017	-.020	.019	-.010

N	X = .774-UPPER CPREAL	.774-UPPER CPIMAG	.860-UPPER CPREAL	.860-UPPER CPIMAG	.910-UPPER CPREAL	.910-UPPER CPIMAG	.012-LOWER CPREAL	.012-LOWER CPIMAG	.062-LOWER CPREAL	.062-LOWER CPIMAG	.148-LOWER CPREAL	.148-LOWER CPIMAG	.261-LOWER CPREAL	.261-LOWER CPIMAG
1	-1.616	-2.016	-1.309	-1.799	-1.041	-1.479	12.462	-7.491	6.660	-4.971	3.702	-2.603	2.442	-1.853
2	-.153	.299	-.157	.264	-.160	.238	-1.503	-.455	-1.089	.336	-.120	.140	.013	.193
3	.256	-.243	.249	-.246	.236	-.241	.264	-.156	.002	-.573	.233	-.263	.236	-.287
4	.047	-.021	.060	-.020	.055	-.013	.069	-.041	.190	.399	.029	.021	.040	.031
5	.010	.029	.005	.022	.003	.017	-.034	-.014	-.117	.034	.043	-.007	.037	-.007
6	.046	-.013	.051	.004	.054	.002	.116	.028	.255	-.013	.064	-.001	.058	.013
7	-.029	.025	-.022	.022	-.025	.022	-.021	-.053	-.057	.028	-.032	.015	-.019	.009
8	.008	-.016	.013	-.014	.011	-.010	-.043	.048	.005	-.040	-.012	.018	-.009	.012
9	.024	.022	.005	.020	.010	.020	.045	-.011	.033	.013	.026	-.008	.029	.003
10	.004	-.019	.013	-.007	.009	-.008	-.029	-.007	-.027	-.029	-.010	.003	-.007	-.008

N	X = .392-LOWER CPREAL	.392-LOWER CPIMAG	.530-LOWER CPREAL	.530-LOWER CPIMAG	.661-LOWER CPREAL	.661-LOWER CPIMAG	.774-LOWER CPREAL	.774-LOWER CPIMAG	.860-LOWER CPREAL	.860-LOWER CPIMAG	.910-LOWER CPREAL	.910-LOWER CPIMAG
1	1.375	-1.133	1.124	-.981	.497	-.566	.313	-.564	.185	-.961	.149	-.439
2	.002	.168	-.039	.189	-.008	.168	-.171	.177	-.249	.167	-.279	.335
3	.208	-.215	.269	-.237	.290	-.149	.313	-.193	.272	-.280	.173	-.196
4	.051	.001	.067	-.009	.064	-.076	.049	.043	.048	.033	.057	-.010
5	.015	-.012	.026	.005	.047	-.007	.036	.006	-.011	.027	.032	.020
6	.054	.008	.069	.002	.018	-.011	.094	.015	.058	.005	.049	.009
7	-.016	.016	-.021	.017	-.026	.019	-.012	.020	-.015	.031	-.022	.016
8	-.011	.007	-.007	.009	-.009	.029	.017	-.010	.010	.006	.005	-.005
9	.026	.007	.028	.017	.023	.014	.018	.015	.010	.014	.012	.019
10	-.005	-.004	[illegible]	-.003	.016	-.001	-.005	-.024	.004	-.021	.003	-.017

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 13 ALPHA-MCL = 2.0 PDP RUN.PT 5.04
RUN 5 ALPHA-BAR = 2.0 Q-COMP = .31749
POINT 1 SIGMA = -90. V-REF = 197.56
COMPUTED FREQUENCY = 9.09, K = .0722

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	23.481	154.43	7.169	162.29	4.157	171.35	2.916	184.37	2.708	201.30	3.045	217.20	3.113	226.41
2	4.639	214.02	.071	152.93	.112	129.03	.122	122.65	.139	124.35	.220	128.56	.326	120.01
3	1.080	292.80	.287	326.54	.346	313.98	.353	311.60	.372	306.09	.319	309.58	.348	321.36
4	.691	133.14	.087	7.79	.118	351.01	.098	346.39	.060	343.16	.091	29.23	.079	351.92
5	.649	209.27	.060	17.87	.027	10.36	.004	264.73	.038	152.91	.032	63.61	.005	85.26
6	.026	312.28	.019	33.94	.042	309.75	.044	308.56	.027	.72	.078	353.74	.050	23.05
7	.449	131.15	.050	110.11	.021	117.46	.043	141.44	.070	127.90	.049	157.80	.025	143.53
8	.302	224.65	.038	302.21	.029	263.05	.033	230.09	.007	287.35	.028	300.91	.023	315.49
9	.131	88.15	.025	83.14	.010	329.09	.012	39.57	.056	43.49	.043	51.89	.019	52.40
10	.191	126.72	.031	326.82	.027	319.43	.003	90.90	.016	341.21	.027	310.27	.021	333.65

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.585	231.25	2.225	233.97	1.808	234.86	14.541	328.99	8.310	323.26	4.525	324.89	3.066	322.82
2	.336	117.11	.307	120.76	.287	123.81	1.570	196.85	1.140	162.85	.185	130.64	.194	86.19
3	.353	316.57	.350	315.35	.338	314.35	.307	329.48	.573	270.23	.351	311.52	.372	309.40
4	.051	335.89	.063	341.72	.057	346.75	.080	329.44	.442	64.52	.035	36.06	.050	30.11
5	.031	71.79	.023	76.44	.017	81.01	.037	202.59	.122	163.52	.044	350.66	.038	348.32
6	.050	345.37	.051	4.40	.054	2.18	.119	13.60	.256	357.17	.064	359.31	.060	12.70
7	.038	138.46	.031	134.23	.033	139.04	.057	248.52	.064	153.44	.035	154.19	.021	154.86
8	.018	297.75	.019	311.88	.015	317.16	.064	131.90	.040	276.58	.018	96.25	.015	127.33
9	.032	41.63	.021	75.34	.022	62.46	.046	345.86	.036	21.95	.028	343.14	.029	5.70
10	.019	280.95	.015	331.51	.012	317.86	.030	193.78	.039	226.98	.011	162.28	.011	228.93

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.782	320.50	1.492	318.87	.754	311.31	.645	299.08	.978	280.88	.464	288.70
2	.168	89.19	.193	101.78	.168	92.75	.246	133.96	.311	142.99	.435	129.78
3	.300	314.07	.358	318.55	.326	332.84	.367	328.38	.390	314.16	.261	311.37
4	.051	1.53	.067	352.24	.100	310.16	.066	41.32	.058	34.60	.058	350.18
5	.019	322.96	.026	11.27	.047	351.60	.037	9.40	.029	112.26	.038	32.42
6	.055	8.05	.069	1.40	.022	327.96	.096	9.15	.059	4.97	.049	10.47
7	.023	133.81	.027	140.55	.033	143.70	.024	120.23	.035	115.96	.028	139.68
8	.013	148.73	.012	126.68	.030	107.00	.020	328.07	.012	29.11	.007	313.05
9	.027	15.05	.033	32.03	.027	31.65	.024	40.77	.017	55.09	.022	57.66
10	.007	218.54	.004	313.21	.016	356.96	.024	257.66	.021	281.83	.017	278.25

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 13 ALPHA-MCL = 2.0 PDP RUN.PT 5.04
RUN 5 ALPHA-BAR = 2.0 Q-COMP = .31749
POINT 1 SIGMA = -90. V-REF = 197.56
COMPUTED FREQUENCY = 9.09, K = .0722

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.362		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.643	-17.627	13.489	-7.152	7.812	-3.228	5.350	-1.631	3.898	-.150	3.549	.859	2.644	1.689
2	2.342	2.140	-1.226	.304	-.050	.053	.079	.090	.081	.054	.098	.017	.155	-.114
3	-.154	.840	-.237	-.415	-.008	-.014	.002	-.023	-.010	.065	.065	.009	.018	.069
4	.542	-.545	.103	.387	-.088	.039	-.056	.054	-.007	.019	-.012	-.053	-.014	-.065
5	.532	.303	-.173	.016	.017	-.012	.037	-.003	.049	-.029	.012	-.023	.046	-.012
6	.098	.047	.239	-.023	.037	.032	.031	.048	.027	.007	-.009	.010	-.028	-.031
7	.275	-.391	-.040	-.019	-.022	-.004	.015	-.018	.027	-.039	.024	-.001	-.006	.004
8	.172	.263	-.016	-.007	.002	.047	.012	.037	-.013	.013	-.021	.033	-.025	.045
9	.041	-.143	.030	-.012	.018	-.003	.020	-.005	-.014	-.031	.001	-.017	.011	-.001
10	.085	-.160	-.053	-.012	-.030	.021	-.007	-.011	-.021	.001	-.015	.018	-.003	.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.932	1.452	1.493	.638	1.190	1.040
2	-.018	-.122	-.091	-.077	-.119	.096
3	.056	.050	.023	-.034	-.063	.045
4	.003	.064	-.012	.053	.001	.003
5	.027	-.023	-.016	.005	.029	.003
6	.046	.028	.007	.001	-.005	.007
7	.017	-.005	.006	.009	.003	-.003
8	.008	.006	-.007	.020	-.076	.005
9	-.006	-.006	.004	-.006	.002	-.001
10	-.009	-.005	-.009	-.013	-.007	-.009

N	CNREAL	CNIMAG
1	5.140	-.972
2	.032	.091
3	-.011	.022
4	.003	.017
5	.029	-.002
6	.031	.011
7	.014	-.021
8	-.002	.031
9	.007	-.014
10	-.012	-.003

N	CMREAL	CMIMAG
1	1.212	-.778
2	.009	.050
3	-.010	-.004
4	.007	.005
5	.003	.005
6	.011	.002
7	.002	-.008
8	.003	.005
9	.002	-.003
10	-.001	-.002

*** STABILITY PARAMETER

```
*                 *
* XI =      .7784 *
*                 *
*******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.005	-2.083	1.178	-1.889	-9.233	2.505	-2.426	-.508	1.263	6.569
2	-.063	.380	.340	.777	-1.682	-1.497	-.185	.103	.837	1.197
3	.309	-.353	.424	-.565	.515	-.744	.350	-.316	.365	-.246
4	.068	.036	.076	.039	.057	-.041	.045	.045	.021	-.162
5	.027	.008	.102	-.060	-.006	-.151	.065	-.003	-.059	.044
6	.086	.011	.009	.027	.098	-.048	.060	.007	.069	.047
7	-.053	[illegible]	-.067	.062	-.050	.067	-.041	.027	-.053	-.105
8	.062	.014	.007	-.031	-.016	-.018	-.012	-.015	.035	-.065
9	.027	.020	-.009	-.002	-.043	.010	.021	.035	.000	-.011
10	-.011	-.011	-.014	-.019	.020	-.054	.007	-.031	.021	-.019

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 13 ALPHA-MCL = 2.0 PDP RUN.PT 5.04
RUN 5 ALPHA-RAP = 2.0 Q-COMP = .31749
POINT 1 SIGMA = -90. V-REF = 197.56
COMPUTED FREQUENCY = 9.09, K = .0722

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.143		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	37.981	332.35	15.268	332.07	8.452	337.55	5.593	343.05	3.901	357.80	3.651	13.61	3.138	32.57
2	3.173	42.42	1.079	163.51	.073	133.12	.120	48.95	.097	33.77	.099	9.73	.193	323.62
3	.854	100.41	.478	240.23	.016	241.40	.024	274.42	.086	96.97	.066	7.94	.071	75.68
4	.768	314.62	.455	75.04	.096	156.11	.078	135.98	.020	111.06	.055	257.01	.067	257.93
5	.612	29.67	.174	174.66	.021	325.45	.038	354.76	.057	329.57	.026	296.61	.048	345.14
6	.109	25.44	.240	354.40	.048	41.03	.057	57.32	.028	14.98	.014	130.95	.042	228.01
7	.476	305.08	.044	205.06	.022	189.35	.023	309.33	.047	305.06	.024	357.16	.008	144.27
8	.311	56.50	.017	265.55	.047	86.07	.039	71.48	.019	134.99	.039	122.61	.051	119.19
9	.146	295.95	.032	339.76	.018	353.45	.020	346.62	.034	245.19	.017	273.85	.011	353.67
10	.121	278.02	.054	172.26	.037	145.95	.013	236.92	.021	176.64	.023	129.78	.009	110.97

X =	.774		.850		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.417	36.94	1.712	29.31	1.580	41.15
2	.123	261.60	.119	219.98	.153	141.00
3	.075	41.58	.041	304.06	.078	144.39
4	.064	87.42	.054	102.89	.004	65.29
5	.035	319.20	.017	164.68	.029	5.92
6	.054	30.06	.007	8.85	.009	126.99
7	.017	343.56	.011	55.62	.005	315.13
8	.010	34.41	.029	97.40	.008	140.96
9	.009	223.76	.008	306.23	.002	327.55
10	.010	210.42	.016	235.75	.011	234.39

N	CN-MAG	PHIN
1	5.231	349.29
2	.097	70.49
3	.024	116.50
4	.018	79.07
5	.029	356.75
6	.033	19.72
7	.025	303.41
8	.031	93.26
9	.015	296.66
10	.013	195.66

N	CM-MAG	PHIM
1	1.440	327.29
2	.051	79.50
3	.011	201.19
4	.009	38.95
5	.006	61.82
6	.011	11.49
7	.008	286.80
8	.006	58.69
9	.004	310.11
10	.002	238.34

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.050		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.313	295.75	2.226	301.95	9.567	164.82	2.479	191.83	6.689	79.12
2	.385	99.36	.548	66.34	2.252	221.67	.211	150.77	1.461	55.04
3	.469	311.25	.706	306.91	.905	304.77	.472	317.97	.449	326.07
4	.077	27.92	.586	27.25	.070	324.01	.064	45.57	.163	277.33
5	.029	15.96	.119	329.73	.151	267.73	.065	357.01	.074	143.26
6	.056	7.02	.028	70.85	.109	333.94	.061	6.79	.084	34.15
7	.065	144.57	.091	137.57	.084	126.95	.049	146.26	.117	243.15
8	.014	67.19	.032	282.98	.024	227.44	.019	232.28	.074	298.22
9	.034	36.72	.009	194.75	.045	166.93	.041	58.60	.011	271.41
10	.016	225.41	.024	232.56	.058	290.36	.032	283.28	.029	318.24

*** STABILITY PARAMETER

XI = .7784

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 15 ALPHA-MCL = 2.0 PDP RUN.PT 5.07
RUN 5 ALPHA-BAR = 2.0 Q-COMP = .32192
POINT 3 SIGMA = -90. V-REF = 198.96
COMPUTED FREQUENCY = 15.43, K = .1218

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-20.152	11.271	-6.611	2.802	-3.991	1.108	-2.841	.174	-2.517	-.602	-2.447	-1.426	-2.152	-1.863
2	-3.814	-2.064	.099	-.024	.104	-.013	.100	-.011	.092	-.020	.054	.050	.048	.153
3	.156	-.920	.125	.061	.094	-.009	.076	-.022	.044	-.020	.028	.043	.089	.033
4	-.354	.370	.021	-.084	.042	-.111	.020	-.100	-.014	-.078	.019	-.034	.008	-.082
5	-.681	-.238	.024	-.038	.013	-.041	-.009	-.041	-.018	-.007	.040	-.029	.016	-.041
6	.069	-.108	.022	-.016	-.006	-.052	-.018	-.046	-.006	-.004	.025	-.041	.019	-.012
7	-.226	.302	.043	.016	.056	-.004	.042	.016	.058	.039	.052	.029	.053	.024
8	-.293	-.094	.013	-.011	-.002	.005	-.015	.024	.015	.021	.009	.007	.010	.024
9	.037	.000	-.011	.009	-.029	-.016	-.042	.005	-.020	-.012	-.029	.006	-.033	.014
10	-.107	.260	.006	.002	.018	-.004	.020	.024	.034	.007	.020	.003	.035	.009

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.610	-1.617	-1.270	-1.367	-.981	-1.010	12.303	-7.572	6.264	-4.768	3.692	-2.176	2.441	-1.337
2	.046	.165	.043	.119	.027	.066	-1.429	-.773	-.586	.367	.050	-.077	.178	-.046
3	.082	.007	.059	.025	.059	.032	.016	.228	-.259	-.061	.060	.018	.034	-.006
4	-.021	-.077	-.016	-.083	-.018	-.088	.059	-.033	.258	.065	-.030	-.016	-.023	-.026
5	.048	-.021	.046	-.028	.046	-.027	-.004	-.095	-.043	.039	.035	-.047	.024	-.062
6	.003	-.020	.004	-.008	.014	-.010	-.027	.024	.014	-.114	-.030	-.030	-.015	-.008
7	.046	.021	.044	.011	.045	.014	.070	-.011	.079	.037	.032	.008	.034	-.012
8	.015	.021	.009	.028	.008	.018	-.007	.051	-.034	.021	.002	.036	-.016	.036
9	-.036	.000	-.025	-.002	-.027	.002	-.018	.029	-.001	.013	-.020	-.000	-.014	.006
10	.036	.016	.032	.022	.030	.015	.066	.028	.030	.025	.045	.041	.035	.029

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.830-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.382	-.636	1.129	-.342	.546	.016	.334	.032	.273	-.053	.212	-.137
2	.145	-.015	.144	-.027	.149	-.036	.014	.018	.043	.085	.072	.152
3	.066	.037	.084	.061	.145	.078	.135	.059	.094	.071	.053	-.084
4	-.004	-.060	-.021	-.088	-.055	-.125	.000	-.028	-.015	-.049	-.030	-.069
5	.004	-.043	.024	-.034	.035	-.061	.042	-.043	.035	-.036	.028	-.029
6	-.006	-.017	-.013	-.027	-.036	.011	.025	-.042	.018	-.026	.011	-.010
7	.028	-.001	.026	.004	.025	.014	.031	.003	.026	.011	.021	.020
8	-.007	.022	-.005	.024	.024	.028	-.002	-.007	.003	-.002	.009	.002
9	-.013	.003	-.019	-.008	-.007	-.000	-.021	-.001	-.018	-.000	-.016	.001
10	.024	.029	.030	.032	.015	.010	.007	.018	.007	.016	.008	.014

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 15 ALPHA-MCL = 2.0 PDP RUN.PT 5.07
RUN 5 ALPHA-BAR = 2.0 Q-COMP = .32192
POINT 3 SIGMA = -90. V-REF = 198.96
COMPUTED FREQUENCY = 15.43, K = .1218

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	23.090	150.78	7.180	157.03	4.142	164.49	2.846	176.49	2.588	193.46	2.832	210.23	2.846	220.88
2	4.337	208.42	.102	346.39	.104	353.06	.101	353.46	.094	347.63	.073	42.83	.161	72.63
3	.933	279.61	.139	25.99	.095	354.26	.079	344.05	.048	336.15	.052	56.58	.095	20.10
4	.534	136.03	.087	283.92	.118	290.74	.102	281.49	.079	259.52	.039	299.50	.082	275.65
5	.721	199.25	.044	302.17	.043	287.08	.042	257.07	.019	200.92	.049	324.17	.044	291.97
6	.129	302.59	.027	324.55	.053	263.54	.050	249.33	.007	211.20	.048	301.10	.022	327.67
7	.377	126.73	.046	19.99	.056	356.03	.045	2.05	.070	34.46	.060	28.88	.058	24.71
8	.307	197.85	.017	318.44	.005	112.83	.028	121.81	.025	54.53	.011	37.68	.026	66.61
9	.037	.01	.014	142.30	.033	208.61	.042	173.31	.023	210.84	.030	167.56	.036	157.32
10	.281	112.36	.006	19.01	.019	347.27	.032	50.09	.035	12.00	.020	8.39	.036	14.12

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.292	225.13	1.866	227.11	1.408	225.85	14.447	328.39	7.872	322.72	4.286	329.48	2.783	331.30
2	.171	74.49	.127	70.17	.071	67.69	1.624	208.41	.691	147.91	.091	303.02	.184	345.54
3	.082	4.57	.064	22.57	.067	28.58	.229	86.08	.266	193.27	.063	16.64	.034	349.74
4	.080	254.74	.084	258.74	.090	258.61	.068	330.52	.266	14.27	.034	208.80	.034	228.09
5	.053	336.23	.054	329.19	.054	329.84	.095	267.87	.058	138.02	.058	306.44	.066	291.06
6	.021	278.94	.009	296.77	.017	325.60	.036	137.64	.115	277.19	.042	224.96	.017	208.92
7	.050	24.96	.045	14.07	.047	17.07	.071	350.87	.088	25.32	.034	14.24	.036	340.73
8	.026	54.34	.029	72.69	.020	66.99	.051	98.14	.040	147.62	.038	87.12	.040	114.00
9	.036	179.40	.025	185.59	.027	176.45	.034	122.07	.013	93.09	.020	181.21	.016	156.97
10	.040	24.11	.039	33.99	.033	26.35	.072	22.62	.039	40.41	.061	41.84	.046	39.92

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.522	335.30	1.180	343.13	.546	1.73	.336	5.39	.278	349.08	.252	327.12
2	.146	354.02	.146	349.19	.153	346.23	.023	51.84	.095	63.01	.168	64.50
3	.076	29.48	.104	36.08	.164	28.25	.147	23.67	.118	37.26	.099	57.70
4	.060	266.12	.091	256.65	.136	246.28	.028	270.50	.051	252.84	.076	246.29
5	.043	275.95	.042	305.17	.071	299.64	.060	314.29	.050	314.50	.040	314.61
6	.018	250.14	.030	243.53	.037	162.91	.049	300.56	.032	304.45	.015	317.31
7	.028	355.75	.027	8.51	.029	29.16	.032	5.18	.029	23.52	.029	43.69
8	.023	107.64	.025	102.33	.037	48.97	.007	249.36	.004	325.47	.009	15.43
9	.014	156.69	.021	203.92	.007	192.94	.021	183.31	.018	180.00	.016	175.61
10	.036	50.07	.044	47.31	.018	33.84	.019	69.32	.017	64.74	.016	59.37

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	15	ALPHA-MCL = 2.0		PDP RUN.PT	5.07
RUN	5	ALPHA-BAR = 2.0		Q-COMP =	.32192
POINT	3	SIGMA = -90.		V-REF =	198.96

COMPUTED FREQUENCY = 15.43, K = .1218

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	32.456	-13.843	12.875	-7.570	7.683	-3.284	5.281	-1.511	3.900	-.033	3.576	1.084	2.698	1.879
2	2.385	1.291	-.685	.391	-.054	-.064	.077	-.034	.053	.005	.090	-.077	.101	-.190
3	-.140	1.148	-.383	-.122	-.034	.028	-.042	.015	.022	.057	.056	.018	.056	.045
4	.443	-.404	.237	.149	-.071	.094	-.043	.074	.010	.018	-.040	-.054	-.063	-.043
5	.677	.143	-.067	.076	.022	-.006	.033	-.021	.022	-.036	-.016	-.005	.019	-.021
6	-.096	.133	-.008	-.098	-.024	.023	.003	.038	-.000	-.014	-.038	.014	-.055	.023
7	.296	-.314	.036	.022	-.023	.012	-.007	-.028	-.030	-.040	-.026	-.025	-.028	-.010
8	.285	.145	-.047	.033	.004	.033	-.001	.012	-.022	.001	-.014	.017	.014	.004
9	-.056	.029	.011	.004	.009	.015	.027	.001	.007	.015	.010	-.015	.026	-.014
10	.173	-.232	.024	.023	.027	.045	.015	.005	-.010	.022	.010	.029	-.020	.001

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.944	1.649	1.543	1.315	1.193	.874
2	-.032	-.147	.000	-.034	.045	.086
3	.053	.052	.035	.047	-.006	.052
4	.021	.048	.001	.034	-.013	.019
5	-.006	-.022	-.011	-.008	-.018	-.002
6	.022	-.022	.014	-.018	-.003	-.000
7	-.014	-.018	-.017	.000	-.024	.006
8	-.018	-.028	-.006	-.030	.001	-.016
9	.015	-.002	.007	.002	.012	-.000
10	-.030	.001	-.024	-.006	-.022	-.001

N	CNREAL	CNIMAG
1	5.055	-.929
2	.063	.014
3	-.015	.060
4	.007	.015
5	.023	-.005
6	-.015	.004
7	-.007	-.022
8	.001	.009
9	.012	.001
10	.003	.006

N	CMREAL	CMIMAG
1	1.166	-.818
2	.013	.033
3	-.019	.011
4	.011	.003
5	.011	.004
6	-.002	.001
7	.006	-.004
8	.003	.006
9	-.001	.002
10	.007	-.001

*** STABILITY PARAMETER

```
*                *
* XI =     .8178 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.095	-1.535	1.188	-1.353	-8.849	3.349	-2.404	.040	1.446	7.112
2	.161	.105	.674	.643	-1.488	-1.395	.041	-.013	1.164	1.119
3	.103	.050	.191	-.212	.280	-.462	.127	-.001	.165	.068
4	.026	-.058	.035	-.009	.023	-.141	-.021	-.036	-.121	-.191
5	.015	-.052	.012	-.071	-.032	-.152	.046	-.060	-.046	-.011
6	.006	-.021	.011	-.031	.002	-.029	.004	-.002	.056	.040
7	.057	.000	.068	-.034	-.000	.024	.059	.005	-.030	-.023
8	-.021	.013	-.018	.017	-.044	-.043	-.004	.009	-.000	-.041
9	-.015	.003	-.009	.005	-.039	-.019	.007	.016	.012	.019
10	.032	.035	.009	.045	.002	.010	.022	.025	.016	.032

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 15	ALPHA-MCL = 2.0	PDP RUN.PT 5.07	
RUN 5	ALPHA-BAR = 2.0	Q-COMP = .32192	
POINT 3	SIGMA = -90.	V-REF = 198.96	

COMPUTED FRECUENCY = 15.43, K = .1218

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	37.529	329.86	14.935	329.55	8.356	336.86	5.493	344.04	3.900	359.51	3.737	16.86	3.288	34.86
2	2.712	28.43	.789	150.26	.084	229.98	.045	336.08	.053	5.29	.119	319.28	.215	298.02
3	1.157	96.96	.402	197.63	.044	140.77	.044	159.66	.061	69.05	.059	18.15	.072	39.07
4	.600	317.66	.260	32.26	.118	127.11	.086	120.33	.021	60.55	.068	233.68	.076	214.34
5	.692	11.92	.101	131.14	.023	345.38	.039	327.69	.043	301.26	.017	197.25	.028	311.84
6	.164	125.87	.099	265.61	.033	136.23	.038	85.95	.014	268.36	.041	159.71	.059	157.26
7	.431	313.33	.042	31.14	.026	152.44	.029	255.14	.050	233.16	.036	223.71	.030	200.36
8	.320	26.90	.057	144.86	.034	83.39	.012	95.34	.022	176.68	.022	128.47	.015	16.79
9	.063	152.38	.011	22.13	.018	60.21	.027	2.61	.016	65.54	.018	304.23	.030	331.85
10	.290	306.69	.033	44.27	.053	58.67	.016	19.12	.024	114.86	.031	71.64	.020	176.61

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.549	40.30	2.027	40.43	1.478	36.22
2	.150	257.80	.034	270.47	.097	62.17
3	.075	44.75	.058	53.49	.052	96.42
4	.053	66.32	.034	87.71	.022	124.55
5	.023	253.41	.014	216.74	.018	185.63
6	.030	314.99	.023	307.44	.003	188.70
7	.023	232.31	.017	178.53	.025	165.36
8	.033	237.53	.030	259.45	.016	273.65
9	.015	354.05	.007	19.80	.012	357.60
10	.030	177.44	.025	193.34	.022	182.44

N	CN-MAG	PHIN
1	5.139	349.58
2	.065	12.13
3	.062	104.24
4	.016	65.87
5	.023	348.82
6	.015	164.76
7	.023	251.54
8	.009	85.46
9	.012	5.18
10	.007	66.47

N	CM-MAG	PHIM
1	1.425	324.96
2	.036	68.70
3	.022	150.89
4	.012	13.28
5	.012	21.48
6	.002	148.17
7	.008	324.74
8	.007	65.32
9	.002	116.53
10	.007	353.80

*** STABILITY PARAMETER

* XI = .8178 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.886	305.51	1.801	311.29	9.461	159.27	2.405	179.06	7.258	78.51
2	.192	33.23	.931	43.64	2.040	223.15	.043	342.44	1.615	43.87
3	.114	25.90	.285	311.97	.540	301.15	.127	359.71	.179	22.43
4	.064	294.00	.036	345.50	.143	279.41	.042	240.39	.226	237.58
5	.064	283.53	.072	279.88	.155	258.23	.075	307.36	.047	193.51
6	.022	265.90	.033	289.35	.029	273.95	.004	324.80	.069	35.41
7	.057	.08	.076	333.26	.024	90.63	.059	4.36	.038	217.75
8	.024	148.48	.025	136.77	.062	224.62	.010	111.41	.041	270.00
9	.015	166.65	.010	149.46	.043	205.65	.018	65.69	.023	56.76
10	.047	47.63	.046	78.38	.010	75.81	.033	49.03	.035	63.20

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 17 ALPHA-MCL = 2.0 PDP RUN.PT 5.09
RUN 5 ALPHA-RAR = 2.0 Q-COMP = .31935
POINT 5 SIGMA = -90. V-REF = 198.15
COMPUTED FREQUENCY = 18.97, K = .1504

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.718	11.417	-6.594	2.534	-4.043	.739	-2.922	-.250	-2.652	-1.092	-2.612	-1.940	-2.290	-2.361
2	-3.812	-1.834	.161	-.102	.154	-.093	.146	-.091	.135	-.113	.106	-.037	.100	.059
3	-.163	-.955	-.050	-.032	-.076	-.112	-.094	-.109	-.129	-.103	-.132	-.053	-.063	-.062
4	-.334	.466	.019	-.012	.027	-.040	.008	-.029	-.012	.001	.033	.046	.008	.007
5	-.739	-.081	.022	-.010	.005	-.013	-.016	-.001	-.012	.056	.033	.003	.006	.000
6	.112	-.253	.036	.008	-.007	-.005	-.007	.005	.056	-.018	.033	.010	.027	.049
7	-.200	.373	-.041	-.054	-.034	-.080	-.033	-.048	-.006	-.010	-.032	-.062	-.022	-.067
8	-.278	.061	.038	.008	.014	.016	.007	.039	.038	.033	.017	.016	.026	.009
9	.039	-.008	.001	.007	-.028	-.005	-.026	.003	-.004	-.028	-.015	.001	-.010	-.003
10	-.158	.256	-.046	.005	-.031	-.005	-.007	.009	-.017	-.027	-.028	-.011	-.011	.021

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.763	-2.137	-1.374	-1.861	-1.087	-1.491	11.951	-8.319	5.929	-5.384	3.566	-2.627	2.373	-1.756
2	.103	.093	.092	.015	.066	-.027	-1.486	-.770	-.386	.324	.046	-.290	.182	-.188
3	-.071	-.097	-.086	-.056	-.087	-.044	-.054	.135	-.381	-.050	-.082	-.057	-.111	-.083
4	-.024	.020	-.026	.008	-.021	.009	-.008	.019	.194	.021	-.034	.057	-.014	.037
5	.034	.001	.031	.010	.024	.008	-.016	-.004	.004	.112	.022	.029	-.020	.026
6	.019	.038	.014	.032	.015	.033	-.003	.076	-.012	-.045	.010	-.039	.036	-.024
7	-.013	-.060	-.006	-.050	-.015	-.045	.051	-.044	.039	-.021	.005	.017	-.013	-.007
8	.022	.022	.014	.014	.020	.013	-.004	.013	-.006	.007	.032	.010	.013	.029
9	-.015	-.013	-.014	-.025	-.013	-.016	-.000	-.044	.027	-.042	.025	-.048	.036	-.043
10	-.013	.018	-.051	.031	-.013	.030	.056	.027	.005	.057	.013	.070	-.001	.069

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.262	-.980	.981	-.763	.446	-.353	.227	-.381	-.206	-.731	.120	-.639
2	.157	-.126	.160	-.160	.158	-.153	.035	-.086	-.001	.004	.132	.008
3	-.075	-.050	-.078	-.034	.014	-.030	-.018	-.057	-.082	-.064	-.069	-.021
4	-.001	.015	-.012	-.000	-.067	-.020	.026	.053	.011	.043	-.018	.030
5	-.017	.019	-.005	.036	-.011	-.016	-.007	-.000	.006	.018	-.038	.002
6	.025	-.019	.038	-.062	.011	.023	.053	-.060	.031	-.016	.038	-.012
7	-.014	-.005	-.009	.017	-.010	.003	-.015	-.017	-.019	-.025	-.017	-.013
8	.016	.010	.025	.024	.040	.006	-.005	.009	.010	.009	.005	.012
9	.012	-.023	.028	-.034	-.004	-.016	-.011	-.012	-.009	-.002	-.039	-.007
10	-.012	.045	-.020	.037	-.032	.029	-.033	.034	-.039	.015	-.039	.039

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 17 ALPHA-MCL = 2.0 PDP RUN.PT 5.09
RUN 5 ALPHA-PAR = 2.0 Q-COMP = .31935
POINT 5 SIGMA = -90. V-REF = 198.15
COMPUTED FREQUENCY = 18.97, K = .1504

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	22.785	149.93	7.064	158.98	4.110	169.64	2.932	184.89	2.068	202.38	3.254	216.61	3.289	225.88
2	4.230	205.69	.191	327.82	.180	328.99	.172	328.16	.176	320.04	.112	340.63	.116	30.57
3	.969	260.34	.059	212.86	.135	235.57	.144	229.29	.165	218.67	.142	201.94	.089	224.62
4	.573	125.62	.022	328.09	.049	303.99	.030	285.74	.012	176.37	.056	54.42	.010	83.55
5	.744	186.26	.024	334.57	.014	289.17	.016	182.35	.057	102.62	.033	5.07	.006	2.19
6	.277	293.94	.037	12.98	.008	214.33	.009	143.95	.059	342.07	.035	16.54	.056	61.23
7	.423	118.20	.068	232.79	.087	246.92	.058	235.66	.012	236.23	.070	242.77	.070	251.98
8	.285	167.61	.039	11.29	.022	48.42	.040	79.11	.050	40.81	.023	42.56	.027	[illegible]
9	.040	348.03	.008	82.65	.029	189.13	.027	172.95	.028	261.31	.015	175.19	.011	195.63
10	.301	121.67	.046	174.32	.031	188.62	.011	129.82	.032	238.11	.030	200.58	.024	117.74

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.771	230.47	2.313	233.57	1.845	233.92	14.561	325.16	8.009	317.76	4.429	323.62	2.951	323.58
2	.139	42.08	.093	9.03	.072	337.62	1.674	207.38	.504	140.05	.206	282.99	.261	314.06
3	.121	233.82	.102	213.20	.098	206.49	.145	111.67	.384	187.44	.106	219.25	.139	216.61
4	.031	139.48	.027	163.13	.023	156.45	.021	112.18	.195	6.23	.066	120.70	.039	110.38
5	.034	.91	.032	17.33	.025	17.98	.017	195.41	.112	87.95	.036	53.74	.033	127.72
6	.042	63.81	.035	66.14	.036	65.32	.076	92.25	.047	254.64	.040	284.81	.043	326.45
7	.061	258.12	.050	262.82	.048	251.87	.067	318.83	.044	331.52	.018	72.79	.015	206.77
8	.031	44.79	.020	44.22	.023	32.80	.013	106.12	.010	131.92	.034	16.88	.031	66.22
9	.021	220.90	.029	242.04	.021	230.47	.044	269.87	.050	303.16	.054	297.85	.056	310.11
10	.022	126.87	.031	92.09	.033	113.83	.062	26.12	.057	85.48	.071	79.92	.069	91.06

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.598	322.19	1.243	322.14	.569	321.68	.444	300.75	.759	254.27	.650	280.67
2	.210	322.89	.226	315.10	.220	315.89	.092	292.31	.004	99.75	.133	3.39
3	.090	213.51	.065	203.57	.033	294.80	.060	252.04	.105	218.04	.072	196.92
4	.015	94.48	.012	180.98	.070	196.27	.059	63.78	.044	75.60	.035	120.99
5	.025	131.84	.036	97.37	.020	236.31	.007	183.23	.019	70.39	.008	167.80
6	.032	322.77	.073	301.68	.026	64.15	.080	311.62	.035	331.92	.040	343.04
7	.014	198.23	.019	116.98	.011	164.37	.023	227.38	.032	232.79	.021	217.57
8	.020	29.12	.035	43.63	.041	8.30	.010	116.58	.013	42.04	.013	67.55
9	.026	298.36	.039	300.00	.017	255.66	.017	226.31	.010	193.15	.011	217.70
10	.046	104.42	.042	118.23	.043	138.47	.047	134.12	.041	158.93	.040	166.95

TCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 17 ALPHA-MCL = 2.0 POP RUN.PT 5.09
RUN 5 ALPHA-PAR = 2.0 Q-COMP = .31935
POINT 5 SIGMA = -90. V-REF = 198.15
COMPUTED FREQUENCY = 18.97, K = .1504

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	31.669	-19.736	12.523	-7.918	7.609	-3.366	5.294	-1.506	3.915	.112	3.523	1.178	2.736	2.009
2	2.326	1.064	-.548	.425	-.106	-.107	.036	-.097	.032	-.014	.054	-.122	.058	-.212
3	.109	1.090	-.331	-.018	-.005	.045	-.017	.027	.053	.053	.054	.019	.077	.032
4	.326	-.446	.176	.033	-.061	.097	-.022	.066	.011	.014	-.044	-.046	-.074	-.027
5	.723	.077	-.018	.122	.017	.043	-.004	.027	-.004	-.037	-.037	.033	-.017	-.017
6	-.115	.329	-.048	-.054	.017	-.034	.043	-.029	-.031	-.001	.035	-.072	-.016	-.026
7	.251	-.417	.067	.033	.039	.097	.020	.041	-.007	.005	.023	.079	.011	.070
8	.274	-.049	-.044	-.050	.018	-.006	.005	-.010	-.020	-.023	.008	.008	.015	-.003
9	-.039	-.036	.026	-.049	.054	-.044	.062	-.046	.017	.005	.035	-.035	.006	-.014
10	.214	-.229	.051	.052	.043	.075	.066	.060	.006	.072	.008	.048	-.021	.008

X =	.774		.868		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.990	1.756	1.163	1.131	1.207	.852
2	-.058	-.179	-.093	-.011	.066	.035
3	.053	.040	.063	-.008	.019	.023
4	.049	.033	.037	.035	.003	.021
5	-.041	-.001	-.025	.008	-.032	-.006
6	.034	-.098	.017	-.048	.023	-.044
7	-.003	.043	-.013	.025	-.002	.033
8	-.027	-.017	-.065	-.005	-.015	-.001
9	.004	.001	.004	.023	.004	.009
10	-.019	.016	-.038	-.016	-.025	-.021

N	CNREAL	CNIMAG
1	4.996	-.941
2	.040	-.021
3	.009	.060
4	.007	.006
5	.006	.016
6	.001	-.030
7	.022	.033
8	.004	-.007
9	.023	-.018
10	.008	.028

N	CMREAL	CMIMAG
1	1.146	-.844
2	.016	.030
3	-.012	.016
4	.007	-.002
5	.014	.007
6	-.004	.007
7	.008	-.005
8	.004	-.001
9	.004	-.005
10	.009	.004

*** STABILITY PARAMETER

```
*                  *
*   XI =   .8442   *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.300		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.961	-2.142	.994	-2.013	-8.779	2.991	-2.523	-.479	1.536	6.686
2	.181	-.057	.775	.489	-1.447	-1.353	.119	-.100	1.272	.963
3	-.100	-.061	-.307	-.356	.016	-.623	-.087	-.163	.006	-.069
4	-.001	.050	-.024	.087	.018	-.060	-.022	.037	-.182	-.087
5	.026	-.006	.026	-.050	-.044	-.082	.013	-.015	-.109	.071
6	.012	.016	-.008	.038	.052	-.045	.036	.009	.082	.018
7	-.015	-.043	-.026	-.042	-.040	-.042	-.004	-.059	-.088	-.073
8	.029	.020	.010	.026	-.000	.008	.019	.042	-.041	.009
9	.009	-.041	.027	-.052	-.060	-.013	.004	-.021	.000	-.086
10	-.002	.072	-.024	.029	-.056	.002	-.013	.029	.009	-.016

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 17	ALPHA-MCL = 2.0	PDP RUN.PT	5.09
RUN 5	ALPHA-PAR = 2.0	C-COMP =	.31935
POINT 5	SIGMA = -90.	V-REF =	198.15

COMPUTED FREQUENCY = 18.97, K = .1504

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	37.315	328.07	14.816	327.70	8.320	336.13	5.504	344.12	3.916	1.64	3.781	18.15	3.394	36.28
2	2.558	24.58	.693	142.18	.152	224.83	.103	290.12	.035	337.33	.134	293.86	.220	285.21
3	1.095	84.29	.332	103.05	.045	96.77	.032	122.32	.075	44.85	.057	19.53	.084	22.82
4	.552	306.12	.179	10.59	.114	122.10	.069	108.36	.018	51.57	.064	226.06	.079	199.73
5	.727	6.05	.123	93.23	.046	68.49	.027	98.71	.037	263.60	.050	138.26	.024	224.35
6	.349	109.32	.072	227.97	.038	296.20	.052	326.02	.031	181.22	.072	274.11	.030	238.74
7	.487	331.00	.067	42.27	.105	67.92	.046	64.65	.009	144.69	.052	73.58	.071	80.74
8	.279	349.99	.044	160.65	.019	340.32	.012	296.51	.030	228.59	.012	45.75	.015	347.67
9	.053	222.45	.056	299.15	.069	321.08	.077	323.60	.017	15.93	.049	314.37	.015	294.77
10	.313	313.09	.073	45.96	.087	60.09	.060	34.22	.072	85.62	.048	80.33	.023	160.16

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.654	41.42	1.625	44.07	1.478	35.23
2	.171	249.18	.094	126.69	.075	26.04
3	.056	37.39	.009	290.24	.029	55.58
4	.059	33.34	.051	43.47	.021	80.87
5	.041	181.31	.026	161.12	.032	190.70
6	.104	289.33	.051	268.97	.050	297.37
7	.043	93.73	.028	117.26	.033	93.06
8	.030	205.22	.007	229.37	.015	184.04
9	.004	17.30	.024	79.68	.010	64.07
10	.025	140.57	.041	202.73	.033	223.06

N	CN-MAG	PHIN
1	5.083	349.34
2	.046	332.28
3	.060	81.20
4	.009	40.69
5	.017	68.41
6	.030	272.16
7	.040	56.22
8	.008	296.87
9	.029	321.05
10	.029	73.55

N	CM-MAG	PHIM
1	1.423	323.61
2	.034	62.86
3	.020	126.82
4	.007	346.48
5	.016	26.25
6	.008	116.30
7	.010	327.58
8	.004	345.85
9	.006	304.27
10	.010	23.57

*** STABILITY PARAMETER

XI = .8442

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.347	294.16	2.245	296.27	9.274	161.18	2.568	190.76	6.860	77.06
2	.190	342.46	.917	32.27	1.981	223.07	.156	319.85	1.595	37.12
3	.117	211.31	.356	266.95	.623	271.45	.185	242.06	.070	275.11
4	.050	91.06	.090	105.65	.082	282.30	.043	121.16	.202	205.55
5	.027	346.02	.056	297.21	.094	241.71	.020	311.51	.130	147.16
6	.020	52.99	.039	102.42	.069	318.93	.037	14.44	.064	12.17
7	.045	250.62	.051	236.43	.057	226.43	.059	265.99	.114	219.59
8	.033	38.70	.028	67.98	.008	90.55	.046	66.11	.042	167.47
9	.042	251.74	.056	297.35	.061	192.12	.022	279.37	.086	270.15
10	.032	94.15	.037	130.24	.056	178.12	.031	114.12	.018	300.50

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 7 ALPHA-MCL = 2.0 PDP RUN.PT 4.01
RUN 4 ALPHA-BAR = 2.0 Q-COMP = .33111
POINT 1 SIGMA = -45. V-REF = 201.89
COMPUTED FREQUENCY = 9.09, K = .0707

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-12.975	10.827	-4.945	2.590	-3.112	.705	-2.240	-.345	-1.661	-1.259	-1.630	-2.157	-1.348	-2.699
2	-3.253	-.074	.025	-.066	.079	-.005	.066	.029	.026	.049	-.041	.127	-.055	.200
3	-1.003	-1.118	.092	-.213	.051	-.266	.028	-.283	.004	-.305	.046	-.269	.108	-.293
4	-.086	-.214	-.055	.038	-.076	-.033	-.074	-.024	-.076	.040	-.011	.070	-.050	.036
5	-.161	.311	.033	-.031	.052	-.054	.028	-.028	.028	.031	.031	-.031	.021	-.028
6	-.422	.110	.028	.007	.022	.008	-.013	.022	.031	.020	.035	-.019	.045	.014
7	-.273	-.136	-.035	-.019	-.059	-.045	-.058	-.036	.002	-.039	-.034	-.016	-.030	-.044
8	.074	-.025	.019	.001	.007	-.018	.008	.020	.011	.021	-.001	.006	-.004	.000
9	.045	.121	.027	.002	.010	.009	.000	.032	.008	-.009	.021	-.002	.003	.001
10	-.135	.064	-.019	-.026	-.028	-.018	-.016	-.030	-.004	-.041	-.014	-.039	.001	-.029

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.013	-2.594	-.800	-2.394	-.661	-2.053	7.134	-8.689	3.450	-5.840	1.703	-3.256	.969	-2.483
2	-.050	.195	-.039	.149	-.030	.120	-.926	.382	-.327	.943	-.125	.122	-.043	.091
3	.095	-.297	.059	-.296	.061	-.267	.192	-.299	-.271	-.258	.118	-.286	.093	-.293
4	-.063	.039	-.066	.031	-.048	.036	-.049	.080	.254	.117	-.050	.057	-.043	.062
5	.040	-.026	.035	-.018	.025	-.032	.024	-.080	.068	-.002	.040	-.052	.043	-.059
6	.034	.002	.036	-.003	.030	.006	.052	.015	.064	-.049	.035	.005	.026	.003
7	-.028	-.039	-.025	-.033	-.019	-.040	-.001	-.041	-.033	-.024	-.017	-.034	-.018	-.032
8	-.005	.001	-.008	-.033	-.006	-.007	-.044	.025	-.025	-.035	-.020	.038	-.017	.004
9	.013	-.002	.007	.001	.009	-.004	-.039	-.003	.002	.032	-.000	.004	-.001	.008
10	-.006	-.026	-.007	-.030	-.009	-.021	.007	-.031	-.051	-.024	-.006	-.015	-.009	-.013

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.441	-1.719	.273	-1.723	.012	-1.179	-.021	-1.287	.168	-1.388	.054	-1.315
2	-.012	.063	-.002	.072	.034	.033	-.123	.138	-.121	.178	-.014	.135
3	.091	-.256	.115	-.306	.181	-.277	.101	-.294	.065	-.291	.092	-.252
4	-.039	.042	-.051	.040	-.083	.015	-.021	.066	-.053	.044	-.048	.037
5	.033	-.042	.043	-.052	.018	-.052	.046	-.040	.037	-.033	.030	-.039
6	.021	.004	.030	.011	.023	.040	.049	-.003	.033	-.000	.032	.009
7	-.008	-.029	-.019	-.041	-.014	-.033	-.011	-.040	-.017	-.038	-.006	-.028
8	-.010	-.000	[illegible]	.004	.009	-.014	-.013	-.011	-.012	-.009	-.003	-.003
9	-.002	-.004	.006	-.009	.006	.007	.000	.001	.012	.006	.005	-.000
10	-.013	-.014	[illegible]	-.022	-.007	-.019	-.017	-.029	-.016	-.021	-.011	-.024

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 7	ALPHA-MCL = 2.0	POP RUN.PT	4.01
RUN 4	ALPHA-BAR = 2.0	Q-COMP =	.33111
POINT 1	SIGMA = -45.	V-REF =	201.89

COMPUTED FREQUENCY = 9.09, K = .0707

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	16.899	140.16	5.582	152.36	3.191	167.23	2.266	188.77	2.247	214.08	2.704	232.93	3.017	243.46
2	3.254	181.31	.070	290.76	.079	356.39	.072	23.69	.055	62.08	.134	107.95	.208	105.30
3	1.502	228.10	.233	293.39	.271	280.93	.285	275.66	.305	270.74	.273	279.63	.313	290.13
4	.231	247.99	.075	149.76	.083	203.45	.078	198.36	.086	152.11	.071	99.11	.061	144.11
5	.351	117.39	.045	316.30	.075	313.64	.039	315.09	.042	47.33	.044	315.16	.035	306.86
6	.436	165.44	.029	14.80	.023	19.83	.026	120.62	.037	32.93	.040	330.91	.048	17.58
7	.269	210.20	.040	207.96	.074	217.20	.068	212.09	.039	272.86	.037	205.76	.053	235.70
8	.078	341.60	.019	3.79	.019	291.66	.022	67.84	.024	61.91	.006	96.24	.004	174.43
9	.130	69.67	.027	4.60	.014	43.04	.032	89.55	.012	310.26	.021	355.34	.004	24.16
10	.150	154.59	.034	234.88	.034	213.17	.034	242.07	.041	264.13	.041	250.63	.029	272.22

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.785	248.68	2.524	251.51	2.157	252.15	11.242	309.39	6.783	300.57	3.674	297.61	2.665	291.32
2	.201	104.27	.154	104.79	.124	104.18	1.002	157.57	1.255	131.25	.174	135.63	.100	115.31
3	.312	287.61	.300	267.30	.273	282.86	.355	302.76	.374	223.57	.309	292.39	.307	287.53
4	.074	148.15	.073	154.91	.060	143.51	.094	121.65	.280	24.62	.076	131.37	.075	124.55
5	.047	326.90	.039	332.61	.041	307.68	.083	286.46	.068	358.55	.065	307.32	.073	305.85
6	.034	3.46	.036	355.47	.031	11.72	.055	16.44	.081	322.92	.036	9.90	.027	7.45
7	.048	234.84	.042	232.93	.044	244.46	.041	268.70	.041	216.76	.038	243.64	.037	241.17
8	.005	165.23	.008	200.43	.007	198.45	.050	150.55	.043	234.67	.022	159.61	.016	165.59
9	.013	349.91	.007	10.05	.010	333.58	.039	184.22	.032	86.54	.004	95.55	.008	97.90
10	.027	257.35	.030	265.14	.023	245.98	.032	282.89	.056	205.22	.016	246.18	.016	235.79

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.775	284.39	1.744	279.00	1.179	270.60	1.288	269.06	1.398	276.88	1.316	272.33
2	.064	101.09	.072	91.58	.048	43.74	.185	131.67	.215	124.11	.136	95.89
3	.271	289.62	.325	269.79	.331	303.22	.311	288.87	.298	282.58	.268	290.11
4	.057	133.08	.065	142.33	.084	169.87	.070	107.48	.069	140.18	.061	141.95
5	.053	308.13	.067	310.05	.056	288.97	.061	318.78	.050	318.23	.049	307.88
6	.022	10.36	.032	19.78	.046	60.64	.049	356.50	.033	359.17	.033	15.29
7	.030	255.59	.042	256.14	.036	247.46	.042	254.11	.042	246.17	.029	258.14
8	.010	181.76	.006	147.04	.016	303.00	.021	210.28	.015	216.13	.004	217.11
9	.004	242.03	.011	303.01	.009	49.53	.001	48.38	.014	24.83	.005	356.61
10	.019	227.47	.024	246.75	.019	247.18	.034	239.60	.026	233.48	.026	245.43

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 7 ALPHA-MCL = 2.0 PDP RUN.PT 4.01
RUN 4 ALPHA-RAP = 2.0 Q-COMP = .33111
POINT 1 SIGMA = -45. V-REF = 201.89
COMPUTED FREQUENCY = 9.09, K = .0707

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	20.109	-19.516	8.395	-8.430	4.814	-3.961	3.209	-2.137	2.302	-.460	1.903	.435	1.361	1.521
2	2.328	.457	-.852	1.009	-.204	.127	-.109	.062	-.038	.014	.039	-.055	.089	-.167
3	1.195	.819	-.363	-.044	.066	-.019	.064	-.010	.087	.049	.064	-.037	.074	.017
4	.037	.294	.319	.079	.026	.090	.031	.086	.037	.001	-.040	-.031	-.033	-.021
5	.155	-.391	.035	.029	-.012	.003	.015	-.032	.005	-.073	.013	-.021	-.003	-.025
6	.475	-.094	.036	-.056	.013	-.002	.040	-.019	-.010	-.016	-.005	.030	-.023	.026
7	.232	.094	.003	-.006	.042	.010	.040	.004	-.0[illegible]	.010	.024	-.025	.016	.011
8	-.118	.049	-.044	-.037	-.027	.025	-.025	-.016	-.021	-.021	-.005	-.003	.013	-.014
9	-.084	-.124	-.025	.030	-.011	-.005	-.001	-.024	-.010	.006	-.015	-.007	.003	.005
10	.142	-.096	-.032	.004	.022	.004	.007	.017	-.009	.027	.004	.017	-.009	.012

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.992	1.307	.968	1.005	.715	.738
2	-.073	-.057	-.081	.029	.016	.015
3	.005	.003	-.024	-.004	.031	.014
4	.042	.027	.013	.014	.001	.001
5	.006	-.015	.002	-.015	.005	-.007
6	.015	-.005	-.003	.002	.002	.003
7	.018	-.001	.009	-.005	.013	.011
8	-.014	-.012	-.004	-.006	.003	-.000
9	-.013	.003	.005	.005	-.003	.004
10	-.011	-.003	-.013	.009	-.001	-.003

N	CNREAL	CNIMAG
1	3.038	-1.410
2	-.020	.075
3	.058	.024
4	.030	.031
5	.012	-.032
6	.020	-.004
7	.024	.004
8	-.016	-.007
9	-.010	-.004
10	.002	.007

N	CMREAL	CMIMAG
1	.748	-.873
2	-.001	.048
3	.010	.010
4	.012	.012
5	.003	-.005
6	.010	-.005
7	.005	.001
8	-.005	.000
9	-.002	-.002
10	.003	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.459	-2.343	.202	-2.296	-6.553	2.539	-2.030	-.777	-1.494	5.375
2	-.042	.149	.754	.225	-1.143	-.573	-.078	.073	.053	1.240
3	.098	-.348	.397	-.675	.076	-.759	.136	-.347	.189	.016
4	-.100	.355	-.114	.074	-.100	-.007	-.084	.073	.081	.203
5	.060	-.038	.062	-.080	-.047	-.073	.039	-.047	.047	-.170
6	.353	.003	.007	.029	-.010	-.023	.028	.025	.05[illegible]	-.000
7	-.024	-.017	.010	-.002	-.070	-.051	-.012	-.038	.032	-.031
8	-.002	.019	-.020	.038	-.000	.004	.007	.010	-.035	.015
9	.014	.016	.341	.031	-.008	-.007	.010	.011	.036	.027
10	-.020	-.029	-.035	-.038	-.013	-.041	-.013	-.026	.033	-.045

*** STABILITY PARAMETER

* XI = .8728 *

OF POOR QUALITY

ORIGINAL PAGE

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 7	ALPHA-MCL = 2.0	PDP RUN.PT	4.01
RUN 4	ALPHA-PAR = 2.0	Q-COMP =	.33111
POINT 1	SIGMA = -45.	V-REF =	201.89

COMPUTED FREQUENCY = 9.09, K = .0707

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	28.022	315.86	11.897	314.88	6.234	320.55	3.855	326.33	2.348	348.69	1.952	12.87	2.041	48.18
2	2.372	11.10	1.321	130.19	.240	148.08	.125	150.28	.041	159.86	.068	305.38	.190	298.04
3	1.449	34.42	.366	186.95	.069	343.77	.065	351.39	.100	29.54	.074	330.12	.076	12.78
4	.296	82.75	.329	13.89	.094	73.95	.092	70.08	.037	2.17	.051	217.46	.039	212.59
5	.432	295.30	.046	39.77	.013	168.33	.035	295.48	.073	273.62	.024	300.90	.025	263.83
6	.484	348.77	.067	302.69	.014	352.47	.044	334.46	.019	238.79	.031	99.95	.035	130.92
7	.250	22.08	.066	296.36	.043	13.79	.041	6.19	.014	134.32	.034	313.82	.019	33.68
8	.127	157.27	.058	219.58	.037	137.15	.030	212.07	.030	224.78	.005	209.61	.019	313.12
9	.150	235.99	.039	133.18	.012	205.49	.024	266.69	.011	150.75	.017	205.59	.006	64.22
10	.172	326.11	.032	173.45	.022	10.18	.019	67.34	.028	108.08	.017	76.09	.014	126.08

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.641	52.81	1.396	46.10	1.027	45.91
2	.093	218.06	.086	160.39	.022	42.29
3	.006	27.03	.025	190.51	.035	24.72
4	.050	32.83	.019	46.75	.002	63.69
5	.016	293.99	.015	279.17	.009	308.84
6	.016	341.82	.003	136.80	.003	52.04
7	.016	356.96	.010	328.22	.017	41.12
8	.018	221.12	.007	234.70	.003	351.53
9	.013	167.18	.007	40.13	.005	128.98
10	.011	193.35	.016	146.44	.003	241.13

N	CN-MAG	PHIN
1	3.349	335.11
2	.077	105.11
3	.063	22.42
4	.043	46.04
5	.034	290.37
6	.021	347.78
7	.024	9.71
8	.017	203.75
9	.011	201.48
10	.007	76.80

N	CM-MAG	PHIM
1	1.149	310.59
2	.048	91.17
3	.014	45.37
4	.017	45.18
5	.006	302.94
6	.011	334.63
7	.005	17.32
8	.005	174.52
9	.003	224.61
10	.003	348.74

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.387	258.92	2.305	275.04	7.027	158.82	2.174	200.93	5.579	105.59
2	.155	105.54	.787	16.65	1.279	206.61	.107	136.69	1.241	87.53
3	.362	285.77	.682	278.21	.763	275.74	.373	291.36	.190	4.82
4	.114	151.31	.136	147.10	.100	184.06	.111	138.92	.219	68.21
5	.071	327.33	.101	307.99	.087	237.24	.061	309.29	.175	283.83
6	.053	7.51	.029	76.37	.025	247.01	.038	41.54	.054	359.80
7	.029	216.20	.011	349.38	.087	216.28	.039	252.77	.045	316.22
8	.019	96.12	.043	117.49	.004	91.48	.012	57.03	.038	156.95
9	.021	49.57	.051	36.67	.011	220.81	.015	48.98	.045	36.48
10	.035	235.57	.052	227.86	.043	252.27	.029	243.75	.056	306.01

*** STABILITY PARAMETER

XI = .8728

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 9 ALPHA-MCL = 2.0 PDP RUN.PT 4.04
RUN 4 ALPHA-PAR = 2.0 Q-COMP = .32612
POINT 3 SIGMA = -45. V-REF = 200.34
COMPUTED FREQUENCY = 15.49, K = .1214

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-12.084	11.126	-4.672	3.015	-2.953	1.127	-2.143	.078	-1.831	-.780	-1.606	-1.596	-1.295	-2.068
2	-3.072	.211	-.017	-.043	.030	-.016	.005	-.004	-.038	.015	-.110	.093	-.120	.151
3	-1.055	-.734	.067	.035	.013	-.000	-.029	-.018	-.045	-.011	-.003	.038	.044	.000
4	-.080	-.296	-.027	.012	-.049	-.047	-.049	-.031	-.026	.027	.038	.031	-.017	.030
5	-.182	.347	-.071	.006	-.053	-.045	-.066	-.008	-.046	.028	-.067	-.029	-.065	-.029
6	-.250	.147	.052	-.006	.019	.016	-.010	.046	.011	.030	.005	.002	.017	.017
7	-.264	.019	-.031	.024	-.065	.009	-.050	.010	.006	-.020	-.025	.010	-.044	-.007
8	-.088	-.056	-.036	-.024	-.051	-.029	-.022	.001	-.068	-.007	-.050	-.011	-.033	.003
9	-.006	.113	.011	.008	.005	.012	.022	.026	-.006	-.010	.007	-.011	.007	-.006
10	-.051	.037	.001	-.021	-.009	.004	.004	-.002	.009	-.018	-.000	.008	.006	.012

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.005	-1.962	-.743	-1.707	-.645	-1.441	6.649	-7.932	2.986	-5.182	1.616	-2.482	.907	-1.679
2	-.105	.115	-.106	.080	-.096	.050	-.935	.219	-.390	.927	-.177	.046	-.118	.025
3	.024	.005	.014	.016	.005	.029	.053	-.040	-.221	.121	.029	-.023	.020	-.019
4	-.020	.026	-.014	.028	-.009	.026	.018	.078	.175	-.066	-.003	.043	.002	.036
5	-.055	-.021	-.054	-.025	-.061	-.032	-.025	-.066	-.016	-.011	-.041	-.021	-.039	-.017
6	.001	.010	.006	.012	.012	.015	-.065	.044	-.050	-.021	-.024	.015	-.018	.010
7	-.024	-.010	-.029	-.008	-.029	-.008	.005	-.050	.002	-.004	-.038	-.033	-.008	-.028
8	-.050	.000	-.045	.004	-.036	.003	-.060	.060	-.095	.027	-.078	.029	-.081	.021
9	.006	-.017	.012	-.009	.013	-.008	.007	-.051	.039	-.042	.008	-.028	.010	-.018
10	.018	.021	.018	.018	.013	.012	.014	.042	.008	.051	.020	.031	.014	.025

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.379	-.976	.195	-.788	-.005	-.358	-.060	-.449	-.036	-.565	-.013	-.682
2	-.058	.013	-.061	.000	-.028	-.057	-.153	.101	-.097	.071	-.041	.042
3	.012	-.006	.016	.004	.077	-.012	.004	.009	.008	.012	.012	.015
4	.003	.023	-.010	.020	-.059	.033	.030	.036	.014	.035	-.001	.035
5	-.050	-.011	-.053	-.006	-.059	-.022	-.054	-.015	-.057	-.021	-.061	-.027
6	-.011	.021	-.006	.020	.015	.027	-.006	.008	.000	.009	.006	.010
7	-.000	-.027	-.007	-.037	-.018	-.029	-.015	-.017	-.012	-.017	-.010	-.017
8	-.066	.014	-.085	.010	-.061	-.004	-.074	.007	-.066	.002	-.058	-.003
9	.001	-.019	-.001	-.002	.014	.005	.018	-.009	.017	-.004	.016	.002
10	.013	.031	.019	.022	.007	.012	.009	.008	.007	.010	.005	.013

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 9 ALPHA-MCL = 2.0 PDP RUN.PT 4.04
RUN 4 ALPHA-RAR = 2.0 Q-COMP = .32612
POINT 3 SIGMA = -45. V-REF = 200.34
COMPUTED FREQUENCY = 15.49, K = .1214

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	16.426	137.36	5.560	147.16	3.160	159.11	2.144	177.90	1.990	203.06	2.264	224.81	2.440	237.96
2	3.079	176.06	.046	247.36	.034	332.57	.007	322.73	.041	158.05	.144	139.83	.193	128.51
3	1.286	214.84	.076	27.88	.013	359.65	.034	211.44	.046	193.54	.039	95.00	.044	.63
4	.307	254.88	.030	155.93	.068	223.53	.058	212.57	.038	133.52	.049	38.88	.035	119.93
5	.392	117.65	.071	174.89	.069	220.17	.066	186.73	.054	148.65	.073	203.06	.072	203.91
6	.290	149.60	.053	353.21	.024	39.64	.047	102.28	.032	68.89	.005	22.38	.024	44.73
7	.265	175.78	.040	141.90	.066	171.85	.051	168.15	.021	286.10	.027	158.51	.045	189.09
8	.104	212.46	.043	213.41	.059	209.15	.022	177.23	.068	186.25	.051	192.61	.033	174.98
9	.113	92.93	.014	35.71	.013	65.88	.034	49.69	.012	237.71	.013	304.68	.009	322.79
10	.063	144.37	.021	272.48	.010	156.63	.004	336.20	.020	295.68	.008	93.16	.013	61.52

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.204	242.86	1.862	246.47	1.579	245.90	10.350	309.97	5.981	299.95	2.962	303.06	1.908	298.39
2	.155	132.32	.132	142.97	.108	152.19	.960	166.82	1.005	112.84	.183	165.42	.121	167.98
3	.025	11.90	.022	48.59	.029	80.30	.066	323.30	.252	151.29	.038	321.61	.028	315.90
4	.033	128.20	.031	116.84	.028	109.19	.080	76.69	.187	339.24	.043	93.43	.036	87.02
5	.058	200.80	.059	204.49	.069	207.86	.070	248.76	.020	214.22	.046	206.63	.042	203.89
6	.010	83.52	.014	62.80	.019	50.69	.079	145.54	.054	202.35	.028	146.79	.020	150.98
7	.026	202.30	.030	194.37	.030	194.46	.050	275.71	.005	296.80	.034	256.77	.029	253.22
8	.050	179.81	.045	175.19	.036	176.06	.085	134.72	.099	164.22	.084	159.52	.084	165.28
9	.018	291.06	.015	323.09	.015	326.47	.051	277.72	.057	312.32	.029	286.32	.020	297.83
10	.028	49.08	.025	44.23	.017	42.78	.044	71.32	.051	80.64	.037	56.70	.028	61.03

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.047	291.24	.812	283.93	.358	269.24	.453	262.43	.567	266.33	.682	268.92
2	.060	167.78	.061	179.68	.064	243.76	.184	146.68	.121	143.82	.059	134.83
3	.013	331.24	.017	15.66	.078	350.97	.010	65.69	.014	56.48	.019	51.91
4	.023	82.62	.022	117.98	.068	150.66	.047	50.71	.038	68.19	.035	92.19
5	.051	192.18	.054	186.53	.063	200.19	.056	195.60	.061	200.19	.067	204.02
6	.024	117.71	.021	106.59	.031	60.89	.010	125.54	.009	89.04	.012	58.47
7	.027	269.41	.038	259.19	.034	237.90	.023	230.07	.021	235.12	.020	240.86
8	.067	167.87	.086	173.54	.061	183.80	.074	174.75	.066	178.50	.058	183.31
9	.019	272.08	.002	243.47	.015	20.09	.020	333.34	.017	348.16	.017	5.79
10	.033	67.51	.029	49.66	.014	58.52	.012	40.56	.013	55.16	.014	67.87

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 9 ALPHA-MCL = 2.0 PDP RUN.PT 4.94
RUN 4 ALPHA-RAD = 2.0 Q-COMP = .32612
POINT 3 SIGMA = -45. V-REF = 200.34
COMPUTED FRECUENCY = 15.49, K = .1214

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	18.733	-19.059	7.658	-8.198	4.568	-3.609	3.050	-1.757	2.210	-.196	1.802	.808	1.290	1.710
2	2.137	.207	-.373	.969	-.206	.062	-.123	.029	-.021	-.003	.049	-.093	.092	-.208
3	1.108	.695	-.289	.096	.016	-.023	.049	-.001	.056	.004	.019	-.034	.034	-.013
4	.099	.374	.202	-.078	.047	.089	.051	.067	.029	-.004	-.049	-.011	-.042	.003
5	.156	-.412	.054	-.017	.011	.024	.027	-.009	-.004	-.039	.014	.023	.006	.007
6	.186	-.102	-.102	-.014	-.042	-.000	-.008	-.036	-.023	-.008	-.011	.018	-.002	.010
7	.269	-.069	.033	-.029	.057	-.042	.041	-.039	-.006	-.007	.018	-.047	.026	-.022
8	.029	.116	-.060	.051	-.027	.058	-.059	.020	.002	.022	-.036	.021	-.028	-.007
9	.013	-.164	.027	-.050	.003	-.040	-.013	-.044	.007	-.009	-.008	.009	.066	.011
10	.065	.005	.007	.072	.029	.027	.010	.026	.004	.048	.020	.014	.001	.000

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.945	1.513	.707	1.142	.632	.760
2	-.049	-.014	.006	-.009	.054	-.009
3	-.020	.004	-.006	-.004	.007	-.013
4	.050	.010	.028	.006	.008	.008
5	.001	.006	-.004	.003	.000	.005
6	-.007	-.002	-.007	-.003	-.006	-.004
7	.010	-.007	.017	-.010	.020	-.010
8	-.024	.007	-.021	-.002	-.021	-.006
9	.011	.008	.005	.006	.004	.010
10	-.009	-.013	-.011	-.007	-.007	.001

N	CNREAL	CNIMAG
1	2.840	-1.156
2	.019	.035
3	.035	.018
4	.027	.024
5	.015	-.013
6	-.013	-.007
7	.030	-.025
8	-.027	.020
9	.003	-.015
10	.008	.018

N	CMREAL	CMIMAG
1	.701	-.845
2	.006	.038
3	.010	.013
4	.010	.008
5	.005	-.007
6	-.002	-.003
7	.006	-.003
8	-.001	.006
9	.000	-.008
10	.003	.005

*** STABILITY PARAMETER

* XI = .8455 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.480	-1.522	.228	-1.519	-6.142	3.167	-1.943	-.144	-1.426	5.536
2	-.150	.107	.712	.151	-1.056	-.513	-.140	.041	-.173	.885
3	.062	-.001	.030	-.334	-.009	-.348	.068	-.039	.045	.183
4	-.020	.049	-.008	.045	-.029	-.044	-.019	.029	.177	.113
5	-.073	-.029	-.083	-.057	-.129	-.040	-.067	-.026	-.064	-.077
6	.003	.009	-.042	.016	.037	-.029	.017	.024	.053	-.021
7	-.040	-.023	-.012	.005	-.063	.014	-.015	.002	-.054	-.009
8	-.060	.013	-.046	.010	-.048	-.013	-.062	.003	-.063	.006
9	.013	-.016	-.020	-.051	.005	.009	.011	-.003	.036	.001
10	.012	.034	.016	.049	-.020	-.007	.014	.016	.053	.016

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 9 ALPHA-MCL = 2.0 PDP RUN.PT 4.04
RUN 4 ALPHA-PAR = 2.0 Q-COMP = .32612
POINT 3 SIGMA = -45. V-REF = 200.34
COMPUTED FREQUENCY = 15.49, K = .1214

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	26.724	314.51	11.218	313.05	5.822	321.69	3.520	330.05	2.219	354.93	1.975	24.16	2.142	52.98
2	2.137	.20	1.039	111.04	.217	163.41	.127	166.68	.021	187.20	.105	297.90	.228	293.79
3	1.308	32.08	.301	163.44	.028	304.61	.049	358.35	.056	4.45	.039	299.57	.036	339.35
4	.387	75.26	.216	338.78	.101	62.44	.084	53.05	.029	351.57	.050	192.93	.042	175.61
5	.441	290.75	.057	342.21	.026	64.35	.029	340.91	.039	264.36	.026	58.50	.010	48.67
6	.212	331.11	.103	188.04	.042	180.23	.037	257.66	.024	200.42	.021	120.01	.010	101.51
7	.276	345.54	.044	219.15	.071	323.69	.056	316.84	.009	226.67	.050	291.20	.034	320.00
8	.120	76.22	.079	139.67	.064	115.00	.062	161.13	.022	84.98	.041	149.80	.029	193.79
9	.164	274.42	.057	298.64	.040	274.01	.046	253.99	.012	306.84	.012	132.53	.012	59.55
10	.066	4.54	.072	84.11	.040	42.62	.028	69.22	.048	85.09	.024	36.12	.001	5.19

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.784	58.01	1.343	58.23	.988	50.25
2	.051	196.03	.013	314.30	.055	350.77
3	.021	169.63	.008	213.44	.015	297.69
4	.051	11.85	.029	15.77	.011	46.50
5	.006	80.83	.005	136.21	.005	96.77
6	.007	192.66	.007	203.15	.007	217.13
7	.012	323.10	.020	330.15	.022	333.52
8	.025	164.50	.021	165.54	.022	195.43
9	.014	35.68	.007	51.20	.011	69.57
10	.016	235.42	.013	213.77	.008	171.45

N	CN-MAG	PHIN
1	3.066	337.84
2	.040	61.32
3	.039	27.51
4	.036	41.37
5	.020	319.94
6	.015	207.20
7	.039	319.83
8	.034	142.75
9	.015	282.69
10	.020	66.34

N	CM-MAG	PHIM
1	1.098	309.66
2	.038	80.25
3	.017	51.50
4	.013	37.20
5	.009	304.03
6	.004	241.01
7	.007	332.51
8	.007	103.20
9	.008	271.59
10	.006	57.47

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.596	252.50	1.536	278.55	6.910	152.72	1.948	184.23	5.717	104.44
2	.184	144.49	.728	12.01	1.174	205.91	.146	163.61	.902	101.04
3	.062	358.82	.335	275.08	.348	268.51	.078	330.39	.189	76.31
4	.053	112.47	.045	100.63	.053	236.28	.035	123.85	.210	32.53
5	.078	232.04	.101	214.52	.135	197.06	.072	201.22	.100	230.11
6	.009	95.86	.045	159.02	.047	321.65	.029	55.17	.057	338.78
7	.046	210.28	.014	156.39	.064	167.50	.015	173.34	.055	189.62
8	.063	163.19	.047	167.46	.050	195.51	.062	176.96	.063	175.03
9	.024	317.37	.355	246.84	.010	59.22	.012	343.27	.036	2.05
10	.036	70.80	.052	72.07	.021	199.52	.021	49.80	.056	16.31

*** STABILITY PARAMETER

* XI = .8455 *

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 11 ALPHA-MCL = 2.0 PDP RUN.PT 4.07
RUN 4 ALPHA-PAR = 2.0 Q-COMP = .32329
POINT 5 SIGMA = -45. V-REF = 199.45
COMPUTED FREQUENCY = 19.14, K = .1508

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-11.287	10.807	-4.342	2.716	-2.684	.781	-1.907	-.281	-1.623	-1.170	-1.390	-1.984	-1.055	-2.417
2	-2.759	.336	.127	-.067	.181	-.051	.144	-.026	.097	-.014	.035	.085	.028	.134
3	-.950	-.578	.148	.055	.092	.024	.028	.010	.006	.036	.051	.065	.107	.016
4	-.037	-.312	.020	-.023	-.012	-.071	-.019	-.056	.022	.006	.073	-.019	.008	-.011
5	.004	.318	.024	-.019	.029	-.056	.017	-.016	.047	.013	.010	-.027	.012	-.024
6	-.396	.091	-.045	-.090	-.039	-.054	-.043	-.011	-.018	-.086	-.032	-.058	.005	-.012
7	-.177	.093	.004	.026	-.037	.007	-.032	.016	-.017	.009	-.019	.006	-.020	-.022
8	-.012	.065	-.027	.001	-.040	-.019	.000	-.007	.001	-.011	-.028	-.003	-.004	-.001
9	.050	.129	-.019	.013	-.034	.011	-.017	.031	-.061	.007	-.046	.012	-.042	-.012
10	-.102	.214	-.051	.020	-.050	.020	-.038	-.008	-.078	-.035	-.055	-.029	-.003	-.050

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.761	-2.298	-.485	-2.019	-.411	-1.757	6.572	-8.234	2.901	-5.454	1.768	-2.701	1.076	-1.884
2	.038	.397	.038	.044	.043	.015	-.747	.175	-.003	.778	-.024	-.014	.037	-.036
3	.071	.022	.067	.034	.064	.042	.071	-.053	-.127	.155	.062	-.026	.061	-.014
4	.012	.002	.010	-.004	.018	-.010	.027	.060	.117	-.121	.016	.019	.029	.008
5	.016	-.023	.021	-.017	.008	-.017	-.016	-.046	.026	-.013	.011	-.014	.013	-.009
6	-.007	-.022	-.010	-.013	-.012	-.005	.035	.041	-.029	-.022	-.011	-.019	-.024	-.033
7	-.013	-.008	.006	-.018	.002	-.017	-.016	-.068	.015	-.012	.016	-.005	.017	.011
8	.005	-.001	-.009	.007	-.011	.003	.041	-.021	.003	.002	.035	.004	.026	.009
9	-.040	-.013	-.022	-.031	-.021	-.018	-.090	-.014	-.051	-.039	-.037	-.057	-.026	-.043
10	.002	-.051	.016	-.037	.008	-.035	.048	-.065	.043	-.017	.073	-.010	.052	.004

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.530	-1.144	.386	-.995	.219	-.540	.169	-.680	.095	-.975	.158	-.974
2	.078	-.044	.104	-.074	.097	-.120	.011	.049	.023	.058	.097	-.023
3	.057	-.004	.076	.019	.134	-.029	.070	.024	.068	.045	.072	.014
4	.019	-.007	.011	-.015	-.039	.016	.047	-.011	.020	.002	.021	-.004
5	.010	-.004	.022	-.001	.005	-.001	.019	-.018	.015	-.013	.012	-.012
6	-.026	-.015	-.028	-.041	.005	-.012	-.031	-.050	-.031	-.032	-.026	-.034
7	.011	.007	.001	.026	.005	.016	.003	.030	-.007	.022	-.008	.024
8	.013	.012	.015	.014	-.002	-.001	.006	.016	-.008	.005	-.005	.007
9	-.020	-.030	-.017	-.026	.003	-.016	.015	-.024	.002	-.008	-.002	-.005
10	.029	.016	.022	.013	.018	.011	-.001	.013	-.026	-.001	-.029	-.002

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 11 ALPHA-MCL = 2.0 PDP RUN.PT 4.07
RUN 4 ALPHA-BAR = 2.0 Q-COMP = .32329
POINT 5 SIGMA = -45. V-REF = 199.45
COMPUTED FREQUENCY = 19.14, K = .1508

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	15.627	136.25	5.121	147.97	2.796	163.77	1.927	188.39	2.600	215.79	2.422	234.98	2.638	246.42
2	2.780	173.06	.144	332.05	.188	344.10	.146	349.88	.098	351.67	.093	67.49	.137	78.30
3	1.112	211.28	.158	20.51	.095	14.42	.030	18.80	.037	80.98	.082	52.14	.108	8.25
4	.314	263.27	.030	311.77	.072	260.79	.059	251.04	.023	15.32	.075	345.69	.013	306.85
5	.318	89.26	.030	321.02	.063	297.08	.023	317.05	.049	14.94	.029	289.76	.027	297.07
6	.407	167.07	.091	240.41	.067	234.56	.045	194.59	.087	258.13	.066	240.75	.013	291.44
7	.200	152.32	.027	82.40	.037	175.19	.036	154.05	.019	150.32	.020	158.19	.029	228.09
8	.066	100.20	.027	178.32	.045	205.10	.007	270.97	.011	276.43	.028	186.52	.004	192.28
9	.139	68.80	.023	144.66	.035	161.62	.035	119.36	.061	173.09	.048	165.13	.044	196.14
10	.237	115.48	.055	158.10	.054	158.66	.039	192.20	.086	204.12	.062	207.28	.050	266.83

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.421	251.69	2.076	256.50	1.809	256.85	10.536	308.60	6.178	298.01	3.228	303.21	2.170	299.74
2	.104	68.60	.058	49.32	.045	19.44	.767	166.83	.778	90.21	.028	209.88	.052	315.71
3	.074	16.87	.076	26.95	.077	32.81	.089	323.58	.200	129.19	.067	336.91	.062	347.29
4	.012	7.28	.010	338.06	.020	329.92	.065	65.73	.168	314.00	.025	50.37	.030	15.74
5	.028	303.80	.027	321.19	.019	296.80	.049	250.74	.029	334.10	.018	309.57	.016	326.33
6	.024	251.58	.016	232.97	.013	201.37	.054	49.89	.037	217.12	.021	240.24	.040	234.18
7	.015	211.32	.019	287.86	.017	277.42	.070	256.77	.019	321.52	.017	342.37	.020	32.96
8	.005	348.18	.011	142.35	.011	165.25	.046	332.76	.004	24.84	.035	7.10	.027	19.40
9	.042	197.97	.038	233.22	.028	219.32	.091	189.14	.064	217.20	.068	237.29	.051	239.05
10	.051	272.39	.040	293.70	.036	282.89	.081	306.52	.046	338.55	.074	352.10	.052	4.40

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.261	294.88	1.067	291.22	.582	292.08	.700	283.93	.980	275.57	.987	279.18
2	.090	330.65	.128	324.75	.154	308.87	.050	77.01	.063	68.63	.100	346.72
3	.057	356.03	.078	14.02	.137	347.92	.074	18.87	.081	33.66	.073	11.02
4	.020	338.28	.019	306.08	.042	157.66	.048	347.04	.020	4.29	.021	349.61
5	.011	335.74	.023	358.44	.005	346.09	.026	317.29	.019	318.76	.017	315.11
6	.030	209.78	.049	236.08	.013	291.42	.059	237.71	.045	225.73	.043	233.10
7	.013	30.20	.026	87.26	.017	71.76	.030	85.18	.023	107.74	.025	109.21
8	.018	41.60	.023	37.54	.002	215.40	.017	68.69	.009	145.02	.008	126.87
9	.036	236.21	.031	244.72	.016	270.60	.028	301.23	.008	283.42	.006	251.43
10	.033	29.10	.025	30.63	.021	30.73	.013	95.24	.026	183.15	.029	183.11

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 11 ALPHA-MCL = 2.0 PDP RUN.PT 4.07
RUN 4 ALPHA-BAR = 2.0 Q-COMP = .32329
POINT 5 SIGMA = -45. V-REF = 199.45
COMPUTED FREQUENCY = 19.14, K = .1506

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	17.859	-19.041	7.243	-8.170	4.453	-3.482	2.983	-1.603	2.153	.026	1.777	.989	1.274	1.878
2	2.012	-.161	-.130	.645	-.205	.038	-.107	-.010	-.019	-.030	.069	-.159	.069	-.254
3	1.022	.525	-.275	.100	-.030	-.050	.033	-.023	.051	-.040	.025	-.046	.026	-.044
4	.064	.371	.097	-.098	.027	.090	.048	.064	-.003	-.013	-.062	.004	-.047	.027
5	-.020	-.364	.007	.076	-.013	.043	-.004	.007	-.037	-.017	.013	.026	-.008	.023
6	.431	-.050	.016	.057	.028	.036	.020	-.022	-.008	.071	.005	.017	-.000	.000
7	.151	-.161	.011	-.038	.052	-.008	.049	-.005	.028	-.003	.020	.019	.025	.038
8	.052	-.086	.030	.001	.075	.023	.026	.016	.012	.023	.046	.017	.002	-.000
9	-.140	-.144	-.032	-.052	-.003	-.069	-.009	-.074	.041	-.037	.053	-.041	.042	-.004
10	-.150	-.279	.097	-.037	.123	-.030	.090	.012	.107	.051	.077	.041	.021	.061

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.929	1.618	.580	1.044	.568	.782
2	-.026	-.048	-.015	.014	.055	-.028
3	-.001	.002	.000	.011	.007	-.028
4	.035	-.012	.010	.005	.004	.006
5	.004	.005	-.006	.004	.003	.005
6	-.024	-.027	-.021	-.019	-.014	-.029
7	.015	.038	-.013	.040	-.011	.041
8	.002	.017	.001	-.001	.006	.004
9	.055	-.011	.025	.023	.020	.012
10	-.503	.004	-.042	.035	-.037	.033

N	CNREAL	CNIMAG
1	2.737	-1.039
2	.036	-.009
3	.028	-.004
4	.007	.023
5	-.007	-.000
6	.014	.009
7	.027	.008
8	.023	.009
9	.016	-.034
10	.056	.019

N	CMREAL	CMIMAG
1	.674	-.838
2	.013	.032
3	.007	.010
4	.006	.007
5	-.002	-.005
6	.010	.005
7	.006	-.008
8	.005	-.000
9	-.007	-.009
10	.015	-.010

*** STABILITY PARAMETER

* XI = .8382 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.214	-1.931	.462	-1.966	-5.664	2.740	-1.652	-.543	-1.199	5.023
2	.083	.068	.989	.058	-.800	-.495	.058	.016	-.081	.719
3	.131	.012	.067	-.364	.067	-.318	.107	-.015	.092	.165
4	.022	-.009	.022	.007	-.005	-.081	.016	-.013	.192	-.001
5	.020	-.029	-.009	-.064	-.012	-.068	.034	-.016	.049	-.049
6	-.059	-.043	-.031	-.041	-.797	-.105	-.039	-.047	-.016	-.201
7	.019	.002	.022	-.031	.005	.069	.007	-.010	.027	-.009
8	.005	-.015	-.028	-.063	-.057	-.047	-.018	-.015	-.005	.011
9	-.031	.013	-.004	-.013	-.038	-.016	-.053	.011	-.016	-.036
10	-.007	-.012	-.025	-.009	-.049	-.009	-.033	-.028	.017	-.009

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 11 ALPHA-MCL = 2.0 PDP RUN.PT 4.07
RUN 4 ALPHA-BAR = 2.0 Q-COMP = .32329
POINT 5 SIGMA = -45. V-REF = 199.45
COMPUTED FREQUENCY = 19.14, K = .1508

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	26.106	313.17	10.918	311.56	5.652	321.97	3.386	331.75	2.153	.70	2.033	29.10	2.269	55.84
2	2.019	355.42	.855	98.72	.208	169.58	.107	185.59	.035	237.56	.173	293.36	.264	285.14
3	1.149	27.19	.292	159.98	.058	239.10	.040	324.60	.065	321.60	.053	298.66	.051	300.71
4	.377	80.28	.138	314.50	.094	73.34	.080	53.27	.014	256.48	.062	176.70	.054	150.40
5	.365	266.83	.007	65.98	.046	112.32	.008	118.39	.041	204.54	.029	63.89	.024	108.47
6	.434	353.44	.059	74.60	.045	51.87	.029	312.35	.071	96.34	.019	73.88	.000	112.00
7	.228	315.09	.040	286.58	.053	351.21	.049	354.76	.028	354.22	.027	42.86	.046	56.84
8	.101	301.36	.030	1.56	.079	17.17	.030	31.64	.026	61.56	.049	20.59	.002	352.90
9	.301	225.79	.061	238.03	.069	267.21	.075	263.39	.055	318.07	.052	308.93	.042	354.72
10	.317	298.29	.101	338.31	.127	346.44	.091	7.73	.118	25.50	.087	28.25	.064	71.09

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.866	60.14	1.194	60.95	.967	54.01
2	.055	241.32	.021	136.30	.067	325.28
3	.003	108.74	.011	89.03	.028	284.46
4	.037	340.31	.012	27.60	.007	60.09
5	.007	54.33	.007	147.56	.006	55.55
6	.036	228.78	.029	221.58	.032	245.19
7	.041	67.83	.042	107.79	.042	104.49
8	.017	84.48	.001	303.44	.007	34.12
9	.056	348.42	.034	42.95	.023	32.06
10	.064	92.98	.055	140.22	.049	137.92

N	CN-MAG	PHIN
1	2.927	339.22
2	.037	345.74
3	.028	352.08
4	.024	73.21
5	.007	182.12
6	.017	31.84
7	.028	15.80
8	.025	21.30
9	.038	295.18
10	.060	18.40

N	CM-MAG	PHIM
1	1.076	308.80
2	.034	68.31
3	.012	55.02
4	.009	48.74
5	.005	252.30
6	.011	25.83
7	.010	306.71
8	.005	356.43
9	.011	234.70
10	.018	325.69

*** STABILITY PARAMETE

*
* XI = .0382
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.943	263.69	2.020	283.22	6.292	154.19	1.739	198.19	5.164	103.43
2	.108	39.42	.991	3.33	.941	211.75	.070	13.56	.724	96.44
3	.131	5.11	.370	280.40	.325	281.88	.108	352.10	.189	60.81
4	.024	336.67	.023	17.42	.081	266.80	.021	320.49	.192	359.67
5	.036	304.44	.065	262.32	.069	260.36	.037	335.15	.069	318.83
6	.073	216.16	.091	206.75	.144	227.45	.061	230.66	.202	265.45
7	.019	6.35	.038	305.15	.011	59.47	.012	305.85	.029	341.90
8	.016	287.98	.069	246.18	.074	219.53	.024	220.06	.012	114.84
9	.034	156.85	.014	251.32	.042	202.56	.054	168.62	.039	246.08
10	.013	239.89	.027	199.81	.050	190.15	.043	220.86	.019	331.67

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 136 ALPHA-MCL = 2.0 PDP RUN.PT 2.05
RUN 2 ALPHA-PAR = 2.0 Q-COMP = .31962
POINT 1 SIGMA = 0. V-REF = 198.28
COMPUTED FRECUENCY = 9.14, K = .0724

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-12.231	2.133	-4.574	.622	-2.328	.115	-1.100	-.151	-.161	-.354	.713	-.539	1.422	-.611
2	-.401	-1.654	.164	.009	.199	.108	.175	.079	.154	-.000	.097	-.084	.078	-.146
3	.884	-.535	-.064	-.044	-.096	-.039	-.051	-.082	-.021	-.137	-.062	-.137	-.104	-.071
4	.417	.458	.044	.050	.059	.091	.109	.128	.098	.111	.028	.091	.055	.107
5	-.221	.195	-.021	.000	-.041	.042	-.037	.038	-.010	-.039	-.018	-.027	-.017	-.003
6	-.037	-.021	-.079	.037	-.123	-.003	-.083	.008	-.068	.004	-.129	.025	-.110	.013
7	.021	.100	.017	-.002	.018	-.011	.015	.042	.010	-.008	.024	.005	.022	.002
8	-.129	.023	.024	-.019	.018	-.028	.007	-.021	.060	-.045	.045	-.019	.050	-.030
9	.012	-.135	.017	-.007	.002	-.021	.003	-.005	.008	.006	.001	.001	-.009	.007
10	-.009	.015	-.026	.046	.004	.036	-.017	.056	.003	.030	.001	.046	-.002	.051

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.606	-.539	1.755	-.517	1.644	-.449	8.819	-1.968	5.568	-1.889	2.922	-.588	2.324	-.407
2	.079	-.162	.094	-.170	.128	-.145	-.148	-.669	-.032	-.495	.079	-.186	.104	-.171
3	-.108	-.055	-.098	-.067	-.109	-.082	-.184	-.098	-.074	-.523	-.110	-.098	-.101	-.100
4	.082	.102	.079	.098	.072	.109	.074	.179	-.129	.256	.047	.126	.055	.116
5	-.009	-.028	-.017	-.014	-.009	-.014	.050	-.067	.025	-.094	.012	-.024	.008	-.017
6	-.122	.013	-.117	.013	-.120	.014	-.156	.023	-.188	.019	-.129	.010	-.126	.001
7	.021	.006	.041	.003	.036	.001	.008	.010	.045	-.004	.015	-.001	.015	-.004
8	.051	-.007	.047	-.017	.043	-.021	.049	-.076	-.007	-.066	.030	-.044	.028	-.035
9	.005	.001	-.013	.008	-.013	.005	-.019	.022	.011	.014	-.002	.007	-.004	.007
10	-.002	.036	-.004	.048	-.002	.043	.028	.047	-.006	.046	.007	.039	.001	.036

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.673	-.238	1.871	-.187	1.302	-.055	1.547	-.163	1.463	-.195	1.380	-.227
2	.116	-.126	.165	-.162	.199	-.092	.117	-.186	.112	-.155	.108	-.124
3	-.092	-.087	-.129	-.103	-.118	-.043	-.113	-.118	-.113	-.103	-.114	-.089
4	.057	.108	.073	.129	.102	.100	.069	.104	.056	.108	.064	.112
5	.035	-.019	-.005	-.013	.001	-.004	-.008	-.016	-.006	-.013	-.004	-.010
6	-.114	.003	-.128	-.003	-.101	-.028	-.133	.011	-.122	.006	-.111	.002
7	.020	-.009	.023	-.015	.021	-.004	.026	-.001	.031	-.005	.037	-.009
8	.026	-.023	.039	-.026	.031	-.033	.032	-.004	.035	-.006	.039	-.007
9	-.004	.001	-.023	-.001	-.015	.007	-.010	-.001	-.010	.002	-.011	.005
10	.001	.031	-.006	.040	-.014	.026	-.008	.047	-.009	.043	-.011	.038

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 186 ALPHA-MCL = 2.0 PDP RUN.PT 2.05
RUN 2 ALPHA-BAR = 2.0 Q-COMP = .31962
POINT 1 SIGMA = 0. V-REF = 198.28
COMPUTED FREQUENCY = 9.14, K = .0724

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	12.415	170.11	4.616	172.26	2.331	177.16	1.110	187.80	.389	245.49	.894	322.91	1.548	336.[illegible]5
2	1.702	256.37	.164	3.03	.227	28.52	.191	24.26	.154	359.98	.128	319.12	.165	298.04
3	1.033	328.83	.078	214.38	.103	202.40	.097	238.26	.139	261.49	.151	245.68	.126	214.15
4	.619	47.67	.066	48.56	.109	56.90	.168	49.41	.148	48.45	.095	72.86	.120	62.62
5	.294	138.57	.021	179.18	.059	134.58	.053	134.25	.040	256.18	.032	236.50	.017	191.44
6	.043	209.85	.079	174.57	.123	181.61	.084	174.50	.068	176.51	.132	169.18	.111	173.47
7	.102	78.02	.017	353.82	.021	329.54	.045	70.97	.012	321.19	.024	1[illegible].38	.022	4.44
8	.131	169.77	.030	320.82	.033	303.31	.022	287.95	.075	323.32	.049	337.15	.058	329.21
9	.136	275.11	.018	338.54	.021	274.97	.006	300.73	.010	39.31	.002	49.37	.011	141.36
10	.018	119.09	.052	119.27	.037	83.99	.059	107.06	.030	84.41	.046	89.20	.051	92.70

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.694	341.45	1.830	343.59	1.705	344.72	9.036	347.42	5.680	341.26	2.980	348.62	2.360	350.07
2	.180	296.03	.194	299.00	.193	311.47	.685	257.52	.968	210.75	.202	293.07	.200	301.26
3	.121	206.81	.119	214.22	.137	216.79	.209	208.05	.328	261.93	.148	221.74	.142	224.79
4	.131	51.12	.126	50.98	.131	56.55	.193	67.58	.286	116.80	.134	69.40	.128	64.74
5	.030	252.06	.022	220.41	.017	237.59	.084	306.52	.097	284.84	.027	297.65	.019	294.23
6	.123	173.87	.118	173.56	.120	173.38	.158	171.74	.189	174.26	.130	175.56	.126	179.77
7	.022	16.96	.041	4.08	.036	1.28	.013	50.08	.045	355.33	.015	358.00	.015	345.34
8	.051	352.17	.050	339.79	.048	334.20	.090	302.89	.066	263.67	.053	304.40	.045	309.37
9	.006	10.36	.015	148.44	.014	159.80	.029	131.88	.017	51.30	.007	110.35	.008	118.45
10	.037	92.98	.048	94.19	.049	92.87	.055	59.65	.047	97.78	.039	80.21	.036	88.48

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.[illegible]90	351.89	1.880	354.28	1.303	357.59	1.556	354.00	1.476	352.43	1.398	350.67
2	.173	313.25	.231	315.60	.220	335.27	.219	302.18	.191	306.04	.164	311.20
3	.127	223.25	.165	218.44	.126	199.96	.163	226.36	.153	222.40	.144	217.90
4	.122	62.12	.148	60.70	.143	44.49	.115	64.94	.122	62.38	.129	60.10
5	.020	284.73	.013	269.08	.004	282.11	.018	243.94	.014	244.80	.010	246.28
6	.114	178.56	.128	181.14	.104	195.60	.134	176.38	.122	176.99	.111	178.93
7	.022	335.15	.027	327.72	.022	348.69	.026	357.18	.032	350.90	.038	[illegible]
8	.036	320.25	.047	326.43	.045	312.78	.033	352.32	.036	350.62	.039	349.21
9	.004	168.91	.023	182.65	.015	172.34	.010	187.80	.011	170.91	.012	156.14
10	.031	88.76	.041	99.03	.030	117.21	.048	99.37	.044	102.46	.040	106.21

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	186	ALPHA-MCL = 2.0		PDP RUN.PT	2.05
RUN	2	ALPHA-PAR = 2.0		Q-COMP =	.31962
POINT	1	SIGMA =	0.	V-REF =	198.28

COMPUTED FREQUENCY = 9.14, K = .0724

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.362		.143		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	21.050	-4.101	10.142	-2.511	5.250	-.704	3.424	-.256	1.834	.115	1.158	.352	-.120	.556
2	.253	.986	-.996	-.504	-.120	-.294	-.070	-.250	-.036	-.126	.069	-.078	.122	.054
3	-1.058	.436	-.010	-.479	-.015	-.059	-.050	-.018	-.072	.051	-.067	.035	-.014	.028
4	-.343	-.279	-.177	.206	-.012	.035	-.055	-.012	-.041	-.003	.045	.038	.047	-.007
5	.271	-.262	.046	-.094	.054	-.066	.045	-.055	.015	.020	.018	.013	.018	-.000
6	-.119	.044	-.109	.011	-.006	.013	-.042	-.008	-.046	-.00[illegible]	.001	-.027	.009	-.041
7	-.013	-.090	.028	-.002	-.003	.010	.000	-.046	.010	-.002	-.000	-.020	-.001	-.006
8	.178	-.099	-.031	-.046	.012	-.016	.022	-.014	-.032	.021	-.006	-.007	-.019	-.003
9	-.031	.157	-.006	.020	-.004	.028	-.007	.012	-.011	-.006	-.024	-.002	-.006	-.005
10	.036	.332	.019	.001	.003	.002	.018	-.020	-.002	.001	-.037	-.006	-.011	-.024

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.059	.376	-.292	.322	-.265	.223
2	.038	-.024	.019	.015	-.020	.021
3	-.004	-.063	-.015	-.037	-.004	-.007
4	-.034	.002	-.023	.010	-.008	.002
5	.001	.012	.011	.001	.005	.005
6	-.011	-.002	-.005	-.007	.009	-.012
7	.005	-.008	-.009	-.008	.001	-.010
8	-.019	.003	-.012	.012	-.005	.014
9	-.016	-.002	.002	-.006	.002	.000
10	-.006	.011	-.005	-.005	-.009	-.010

N	CNREAL	CNIMAG
1	2.649	-.194
2	-.059	-.086
3	-.063	-.022
4	-.030	.013
5	.030	-.022
6	-.023	-.008
7	.003	-.013
8	-.003	-.006
9	-.009	.008
10	.001	-.005

N	CMREAL	CMIMAG
1	.952	-.206
2	-.036	-.021
3	-.018	-.008
4	-.012	.003
5	.008	-.011
6	-.007	.003
7	.001	-.001
8	.004	-.004
9	-.001	.005
10	.003	.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.528	-.478	.648	-.660	-5.779	.466	-.660	-.286	-4.443	.329
2	.128	-.016	.242	.010	.058	-.931	.104	-.056	.095	-.502
3	-.106	-.119	-.173	-.182	.170	-.145	-.092	-.056	-.024	-.335
4	.059	.139	.058	.161	.100	.117	.083	.132	.096	.140
5	.002	-.003	.320	-.032	-.025	.016	-.017	.007	.026	-.005
6	-.132	.019	-.168	-.036	-.107	.017	-.124	.006	-.131	-.002
7	.012	.013	.022	.025	.029	-.012	.030	-.008	.045	-.013
8	.025	-.046	.308	-.029	.035	-.027	.029	-.037	.025	-.037
9	-.022	-.010	-.018	.037	.010	-.006	.003	-.001	.005	.013
10	.003	.064	.344	.077	-.029	.065	-.019	.062	-.029	.065

*** STABILITY PARAMETER

XI = .2055

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 186 ALPHA-MCL = 2.0 PDP RUN.PT 2.05
RUN 2 ALPHA-BAR = 2.0 Q-COMP = .31962
POINT 1 SIGMA = 0. V-REF = 198.28
COMPUTED FRECUENCY = 9.14, K = .0724

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	21.445	348.98	10.449	346.09	5.297	352.37	3.434	355.72	1.838	3.60	1.210	16.91	.569	102.17
2	1.018	75.60	1.116	266.83	.316	247.85	.260	254.26	.131	254.16	.104	311.25	.133	23.77
3	1.153	157.77	.479	268.79	.061	255.96	.053	199.85	.088	144.71	.076	152.45	.031	117.12
4	.443	219.13	.269	130.01	.037	109.40	.056	192.25	.041	183.77	.059	40.79	.047	351.68
5	.377	315.90	.104	295.94	.085	309.34	.071	309.02	.024	52.99	.022	37.33	.018	359.11
6	.127	159.76	.110	174.04	.015	113.40	.043	19.05	.046	181.62	.027	272.94	.042	282.84
7	.090	261.89	.028	356.23	.011	107.23	.046	270.04	.011	351.55	.020	268.72	.006	261.39
8	.204	330.88	.056	236.40	.020	306.18	.026	327.60	.039	146.21	.009	226.99	.019	190.39
9	.160	101.34	.021	106.28	.028	98.74	.014	119.40	.013	206.35	.024	185.27	.003	221.30
10	.046	41.32	.019	1.58	.004	39.37	.027	311.80	.002	156.98	.009	220.91	.027	244.98

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.381	93.84	.435	132.13	.346	139.92
2	.045	327.86	.024	39.54	.029	133.00
3	.064	266.08	.039	247.76	.008	237.01
4	.034	177.04	.025	156.14	.008	163.72
5	.012	84.19	.011	7.84	.007	44.42
6	.011	191.98	.008	236.09	.015	306.81
7	.009	301.12	.012	220.35	.010	275.15
8	.019	171.91	.017	135.69	.015	110.11
9	.016	188.70	.006	289.93	.002	.44
10	.012	118.73	.008	222.99	.014	230.59

N	CN-MAG	PHIN
1	2.656	355.81
2	.104	235.52
3	.067	198.84
4	.032	156.99
5	.037	324.08
6	.024	199.64
7	.014	280.87
8	.007	241.15
9	.013	138.69
10	.005	277.41

N	CM-MAG	PHIM
1	.974	347.81
2	.042	210.36
3	.020	203.22
4	.013	168.57
5	.014	306.10
6	.008	159.13
7	.002	295.71
8	.006	310.54
9	.005	98.16
10	.003	15.12

*** WALL PRESSURES, PER RADIAN ***

*** STABILITY PARAMETE

*

* XI = .2055

*

****

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.713	317.85	.925	314.50	5.798	175.39	.719	203.46	4.456	175.76
2	.129	352.11	.242	2.39	.932	273.60	.118	331.60	.511	280.71
3	.160	228.23	.250	226.47	.223	319.61	.108	211.26	.336	265.96
4	.151	67.18	.171	70.27	.154	49.33	.156	57.69	.170	55.63
5	.003	308.36	.038	302.20	.030	146.96	.018	158.32	.026	348.89
6	.133	171.74	.168	181.98	.108	171.18	.124	177.34	.131	181.05
7	.018	46.79	.034	48.15	.031	337.36	.031	344.97	.047	344.14
8	.056	299.99	.030	285.67	.044	322.16	.047	307.42	.044	303.89
9	.025	204.18	.041	115.67	.012	326.57	.003	343.37	.014	68.32
10	.064	87.48	.089	60.30	.071	113.48	.064	107.15	.071	134.27

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 188 ALPHA-MCL = 2.0 PDP RUN.PT 2.08
RUN 2 ALPHA-BAR = 2.0 O-COMP = .31980
POINT 3 SIGMA = 0. V-REF = 198.33
COMPUTED FREQUENCY = 15.50, K = .1228

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-10.687	1.436	-4.349	-.082	-2.225	-.660	-1.056	-.988	-.209	-1.242	.632	-1.440	1.331	-1.443
2	-.463	-.739	-.055	.185	.020	.301	.013	.283	-.044	.210	-.119	.129	-.153	.074
3	.572	-.270	.066	.041	.006	.070	.055	.029	.082	-.060	.057	-.052	.040	.034
4	.356	.226	.043	-.040	.029	-.039	.090	.001	.095	-.013	.001	-.005	.025	.001
5	-.029	.278	.079	.043	.062	.052	.063	.104	.052	.026	.040	.042	.058	.066
6	-.052	-.142	.077	-.066	.027	-.050	.043	-.029	.103	-.066	.054	-.035	.069	-.046
7	.030	-.020	-.025	.024	-.041	-.019	-.030	.019	-.039	.005	-.049	-.002	-.059	-.004
8	-.044	.064	.029	.017	.057	.008	.022	.043	.013	.014	.051	.019	.046	.020
9	.036	-.001	.016	.004	-.012	.014	-.039	.002	-.005	-.003	-.015	-.007	-.040	.000
10	-.006	-.040	.002	.004	.004	-.010	.006	-.002	.006	.004	.014	.005	.027	-.004

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.578	-1.347	1.630	-1.227	1.502	-1.126	8.324	-2.827	5.039	-2.896	2.724	-1.190	2.132	-.958
2	-.141	.048	-.107	.049	-.081	.059	-.278	-.354	-.831	.161	-.102	.036	-.086	.056
3	.032	.036	.032	.025	.032	.013	-.011	-.026	-.111	-.328	.038	-.002	.047	.005
4	.040	-.006	.029	-.005	.036	-.012	.048	.012	.010	.119	.044	-.009	.043	-.009
5	.041	.061	.046	.067	.047	.057	.043	.001	.021	-.020	.058	.031	.058	.036
6	.059	-.044	.059	-.042	.040	-.041	.059	-.003	.039	.021	.046	-.026	.046	-.032
7	-.049	-.003	-.043	-.004	-.040	.002	-.082	-.007	-.073	-.031	-.048	-.003	-.038	-.001
8	.056	.031	.047	.034	.050	.027	.073	.044	.054	.077	.031	.059	.021	.059
9	-.032	-.027	-.029	-.029	-.034	-.020	-.063	-.020	-.052	-.028	-.034	-.027	-.031	-.028
10	.022	.014	.027	.007	.028	.006	.016	-.028	.021	-.005	.023	-.006	.030	.002

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.498	-.683	1.644	-.693	1.137	-.447	1.365	-.653	1.453	-.661	1.158	-.718
2	-.048	.068	-.049	.067	.004	.074	-.092	.043	-.077	.047	-.068	.072
3	.047	.005	.042	.019	.064	.072	.041	-.017	.041	-.003	.027	.008
4	.044	-.011	.056	-.017	.061	-.036	.023	-.015	.032	-.026	.036	-.015
5	.055	.041	.065	.058	.083	.053	.051	.058	.039	.057	.047	.061
6	.040	-.043	.054	-.062	.042	-.077	.044	-.051	.048	-.054	.049	-.057
7	-.034	-.001	-.039	-.001	-.023	-.010	-.028	.003	-.037	.009	-.034	-.003
8	.019	.047	.012	.063	.008	.043	.023	.069	.030	.048	.027	.044
9	-.023	-.016	-.017	-.027	-.019	-.021	-.018	-.021	-.011	-.014	-.018	-.010
10	.016	.012	.020	.010	.016	.030	.024	.011	.026	.015	.016	.022

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 168 ALPHA-MCL = 2.0 PDP RUN.PT 2.08
RUN 2 ALPHA-BAR = 2.0 Q-COMP = .31980
POINT 3 SIGMA = 0. V-REF = 198.33
COMPUTED FREQUENCY = 15.50, K = .1228

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	10.783	172.35	4.350	181.08	2.321	196.51	1.446	223.10	1.259	260.47	1.573	293.68	1.963	312.68
2	.872	237.96	.193	106.56	.301	86.26	.283	87.41	.214	101.71	.176	132.79	.170	154.00
3	.632	334.69	.078	31.58	.071	85.38	.062	27.76	.101	323.73	.077	317.72	.052	40.40
4	.422	32.47	.058	317.24	.048	306.68	.090	.93	.096	352.20	.005	279.45	.025	2.36
5	.279	95.86	.090	28.29	.081	39.67	.121	58.71	.059	26.50	.058	46.04	.088	48.67
6	.151	249.92	.101	319.26	.057	298.48	.052	326.46	.122	327.30	.064	327.20	.083	326.48
7	.037	325.89	.034	136.18	.045	204.57	.036	148.50	.039	173.00	.049	181.78	.059	184.14
8	.077	124.51	.034	29.54	.058	8.41	.049	62.93	.020	47.28	.054	20.39	.050	23.75
9	.036	357.66	.017	14.65	.018	132.28	.039	177.15	.006	208.09	.017	205.54	.040	179.35
10	.041	261.66	.005	63.11	.011	293.30	.007	338.68	.007	29.87	.015	18.00	.027	350.73

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.074	319.52	2.041	323.03	1.877	323.13	8.791	341.24	5.812	330.12	2.972	336.40	2.338	335.80
2	.149	161.22	.117	155.43	.100	143.96	.450	231.92	.851	167.71	.109	159.79	.102	147.12
3	.048	48.48	.040	38.09	.035	23.01	.028	247.16	.347	251.29	.038	357.42	.048	5.57
4	.040	351.47	.029	350.39	.038	341.11	.049	14.56	.119	85.34	.045	348.63	.044	348.75
5	.073	56.02	.081	55.51	.074	50.63	.044	1.19	.030	316.62	.065	28.15	.069	31.93
6	.074	323.51	.073	324.36	.058	314.38	.059	357.09	.045	28.47	.053	330.63	.056	324.85
7	.049	183.25	.043	184.82	.040	177.51	.083	185.09	.079	203.37	.048	183.68	.038	181.80
8	.064	28.73	.058	35.64	.057	27.90	.085	31.34	.094	55.14	.067	62.19	.062	70.41
9	.042	219.36	.041	224.89	.039	210.00	.066	197.82	.059	208.23	.043	218.75	.041	222.01
10	.026	32.51	.027	14.33	.028	12.31	.032	299.34	.021	346.03	.024	345.30	.030	4.07

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.647	335.48	1.784	337.14	1.222	338.56	1.513	334.44	1.596	335.53	1.303	328.20
2	.083	125.24	.083	126.03	.074	87.20	.102	154.93	.090	148.52	.099	133.06
3	.047	5.81	.046	24.07	.096	48.19	.044	337.89	.041	356.23	.028	16.01
4	.045	345.29	.059	342.94	.071	329.26	.027	327.06	.041	320.54	.039	337.64
5	.069	36.90	.087	41.97	.098	32.31	.077	48.31	.070	55.46	.076	52.47
6	.059	313.30	.062	311.14	.088	298.72	.067	310.75	.072	311.21	.076	310.64
7	.034	182.07	.039	181.06	.025	203.52	.028	173.55	.039	165.89	.034	[illegible]
8	.050	67.76	.064	79.65	.043	79.71	.072	71.83	.057	57.56	.051	58.19
9	.028	215.71	.032	237.38	.028	227.79	.028	229.20	.018	231.54	.020	209.45
10	.020	36.35	.022	25.97	.034	62.35	.027	24.61	.030	31.16	.027	54.28

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 188 ALPHA-MCL = 2.0 PDP RUN.PT 2.08
RUN 2 ALPHA-BAR = 2.0 Q-COMP = .31980
POINT 3 SIGMA = 0. V-REF = 198.33
COMPUTED FREQUENCY = 15.50, K = .1228

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.362		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	19.011	-4.263	9.388	-2.613	4.949	-.530	3.188	.030	1.707	.558	1.013	.747	-.194	.997
2	.185	.385	-.776	-.004	-.122	-.263	-.099	-.227	-.004	-.142	.071	-.062	.156	-.001
3	-.583	.244	-.178	-.369	.033	-.072	-.008	-.024	-.035	.065	-.015	.070	.024	.038
4	-.308	-.214	-.033	.159	.015	.030	-.047	-.010	-.051	.002	.056	-.012	.036	-.037
5	.072	-.277	-.058	-.063	-.005	-.021	-.005	-.067	.002	.015	.024	.016	.025	-.013
6	.111	.139	-.037	.087	.019	.024	.003	-.003	-.062	.023	.000	-.027	-.027	-.031
7	-.113	.013	-.048	-.055	-.007	.016	-.008	-.020	.004	-.006	.010	.001	.036	-.006
8	.116	-.019	.024	.061	-.026	.050	-.001	.016	.006	.032	-.039	.044	-.038	.022
9	-.099	-.019	-.068	-.032	-.022	-.041	.009	-.030	-.018	-.014	-.002	-.020	.021	-.021
10	.021	.013	.019	-.009	.019	.004	.024	.005	.010	.008	.006	.005	-.011	.034

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.213	.694	-.177	.566	-.343	.408
2	.048	-.005	.029	-.001	.013	.013
3	.009	-.053	.009	-.028	-.005	-.006
4	-.017	-.009	.003	-.021	.000	-.003
5	.010	-.003	-.006	-.009	-.000	.004
6	-.016	-.007	-.011	-.012	.009	-.016
7	.021	.006	.006	.013	.006	-.004
8	-.033	.032	-.017	.014	-.023	.017
9	.014	.006	.017	.014	.016	.010
10	.003	-.003	-.001	.009	-.012	.016

N	CNREAL	CNIMAG
1	2.411	.063
2	-.036	-.070
3	-.031	-.012
4	-.012	-.002
5	.005	-.021
6	-.010	.005
7	.001	-.005
8	-.013	.030
9	-.005	-.016
10	.007	.008

N	CMREAL	CMIMAG
1	.886	-.227
2	-.034	-.013
3	-.014	-.009
4	-.008	.004
5	-.002	-.008
6	.001	.008
7	-.005	-.002
8	.005	.002
9	-.006	-.004
10	.003	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.407	-1.519	.383	-1.738	-5.393	-.477	-.663	-1.269	-4.212	-.628
2	-.134	.292	.046	.345	-.222	-.572	-.154	.206	-.013	-.299
3	.066	.000	.000	-.109	.293	-.040	.083	.043	.107	-.065
4	.057	-.032	.065	-.033	.109	-.019	.058	-.024	.037	.001
5	.093	.046	.084	.009	.141	.062	.068	.050	.030	.036
6	.076	-.071	.068	-.021	.015	-.023	.090	-.050	.115	-.039
7	-.064	.021	-.046	.012	-.009	.005	-.030	.000	-.032	-.019
8	.054	.046	.056	.045	.045	.053	.050	.028	.009	.043
9	-.017	.011	-.023	-.032	.000	-.006	-.035	-.004	-.004	.001
10	.011	-.017	-.014	-.048	.017	.021	.024	.001	.036	-.020

*** STABILITY PARAMETER

*   *
* XI =   .2266 *
*   *
****

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 188 ALPHA-MCL = 2.0 PDP RUN.PT 2.08
RUN 2 ALPHA-PAR = 2.0 Q-COMP = .31980
POINT 3 SIGMA = 0. V-REF = 198.33
COMPUTED FREQUENCY = 15.50, K = .1228

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	19.483	347.36	9.800	343.32	4.977	353.89	3.188	.53	1.796	18.11	1.258	36.42	1.015	101.00
2	.427	64.32	.776	180.29	.290	245.10	.248	246.52	.142	268.24	.094	318.74	.156	359.75
3	.632	157.26	.410	244.31	.079	294.31	.026	252.52	.073	118.10	.072	101.79	.045	57.24
4	.375	214.80	.162	101.84	.033	63.50	.048	192.22	.051	178.27	.057	347.89	.052	316.16
5	.286	284.56	.085	227.45	.021	257.55	.067	266.09	.015	80.65	.029	33.87	.029	332.40
6	.178	51.45	.095	113.21	.031	51.55	.004	317.08	.067	159.66	.027	270.48	.041	229.61
7	.113	173.35	.073	228.86	.017	113.30	.021	248.65	.007	306.10	.010	4.47	.037	351.29
8	.118	350.55	.065	68.01	.057	117.65	.016	94.33	.033	79.89	.059	131.50	.044	149.38
9	.101	190.67	.075	205.21	.046	242.11	.031	286.17	.023	217.59	.020	263.42	.030	314.87
10	.025	30.93	.021	333.43	.019	11.02	.024	10.91	.013	40.02	.008	41.49	.036	107.92

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.726	107.05	.593	107.41	.533	130.10
2	.049	354.53	.029	357.18	.019	44.93
3	.053	279.76	.029	288.75	.007	230.25
4	.019	208.13	.022	278.00	.003	279.45
5	.011	343.71	.011	235.78	.004	93.67
6	.017	203.95	.017	227.08	.018	298.86
7	.022	15.65	.014	66.16	.008	325.06
8	.051	131.32	.022	139.93	.029	143.60
9	.015	21.59	.022	39.42	.019	30.59
10	.004	314.63	.009	95.96	.020	128.16

N	CN-MAG	PHIN
1	2.412	1.50
2	.079	242.75
3	.033	202.12
4	.013	189.93
5	.022	282.51
6	.011	153.03
7	.005	283.19
8	.033	113.75
9	.016	251.85
10	.011	51.37

N	CM-MAG	PHIM
1	.915	345.66
2	.036	200.53
3	.017	211.25
4	.009	153.50
5	.008	258.37
6	.008	81.10
7	.006	197.86
8	.005	19.81
9	.007	213.71
10	.003	340.16

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.572	285.01	1.780	282.44	5.414	185.06	1.432	242.43	4.258	188.48
2	.321	114.69	.348	82.32	.613	248.80	.257	126.81	.299	267.58
3	.066	.02	.109	270.17	.296	352.25	.093	27.37	.125	328.57
4	.065	330.84	.073	333.24	.111	350.07	.063	337.60	.037	1.59
5	.103	26.45	.084	6.34	.154	23.52	.084	36.33	.046	50.31
6	.104	316.76	.071	343.30	.027	303.19	.103	331.10	.121	341.33
7	.067	161.46	.049	165.57	.010	149.16	.030	179.57	.037	210.17
8	.072	41.28	.071	38.79	.070	49.70	.057	29.22	.044	78.04
9	-.020	148.85	.039	234.83	.006	273.48	.035	186.01	.005	167.25
10	.020	303.84	.050	253.91	.027	51.62	.024	2.30	.041	330.81

*** STABILITY PARAMETE

*
* XI = .2266
*
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 190 ALPHA-MCL = 2.0 PRP RUN.PT 2.11
RUN 2 ALPHA-RAR = 2.0 C-COMP = .33314
POINT 5 SIGMA = 0. V-REF = 207.49
COMPUTED FREQUENCY = 19.22. K = .1491

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-10.714	1.901	-4.558	.578	-2.438	.025	-1.323	-.289	-.513	-.467	.316	-.569	1.032	-.509
2	-.269	-.913	.069	-.126	.124	-.020	.135	-.045	.103	-.148	.034	-.248	.005	-.304
3	.345	-.257	-.047	.021	-.094	.057	-.051	.015	-.033	-.067	-.058	-.059	-.070	.004
4	.230	.175	-.007	-.018	-.028	-.033	.022	-.006	.029	-.035	-.061	-.031	-.035	-.036
5	.004	.147	.041	.001	.029	.022	.025	.061	.015	.019	.006	.035	.017	.032
6	-.060	.007	-.020	.030	-.035	.029	-.032	.030	.024	-.019	-.021	.026	-.015	.011
7	.034	.005	.025	.019	.008	.006	.015	.025	.001	.020	.001	.019	-.013	.016
8	-.041	-.033	-.015	-.002	-.000	-.003	-.011	.007	-.031	-.006	.000	.004	.004	.005
9	.030	.012	.026	.018	.013	.018	.002	.013	.004	.025	.001	.019	-.013	.008
10	-.037	.030	-.027	.005	-.020	-.002	-.016	.001	-.018	.002	-.014	.000	.003	-.004

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.221	-.364	1.338	-.222	1.158	-.108	8.021	-1.739	4.579	-1.837	2.429	-.171	1.790	.124
2	.074	-.312	.063	-.324	.079	-.309	-.144	-.824	-.593	-.135	.048	-.346	.081	-.311
3	-.066	.008	-.067	-.003	-.063	-.012	-.077	-.037	-.220	-.255	-.051	-.022	-.047	-.025
4	-.016	-.044	-.020	-.047	-.023	-.042	-.071	-.036	-.071	.059	-.041	-.037	-.032	-.039
5	.079	.030	.016	.024	.028	.022	-.009	.029	-.011	.008	.018	.018	.020	.024
6	-.079	.013	-.015	.014	-.016	.017	.005	-.009	-.039	.027	-.000	-.009	.004	-.014
7	-.039	.010	-.035	.007	-.004	.009	-.058	-.004	-.031	-.012	-.016	-.004	-.011	-.003
8	.004	.006	.007	.007	.003	.004	.025	.015	.015	.020	.003	.010	-.004	.003
9	-.011	.006	-.012	.002	-.007	.005	-.053	-.011	-.033	-.010	-.020	-.010	-.011	-.012
10	.001	-.001	.005	-.001	.001	.001	.032	-.004	.023	.003	.021	.002	.017	.007

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.121	.298	1.229	.576	.778	.649	.947	.474	.861	.386	.774	.299
2	.005	-.267	.144	-.373	.143	-.286	.088	-.325	.097	-.294	.105	-.263
3	-.031	-.011	-.075	-.004	-.015	.046	-.068	-.029	-.064	-.020	-.059	-.011
4	[illegible]	-.036	-.017	-.052	-.007	-.056	-.033	-.051	-.026	-.047	-.038	-.044
5	.022	.014	.037	.033	.043	.017	.020	.023	.021	.024	.022	.025
6	.002	-.010	.017	-.027	-.011	-.016	-.004	-.004	-.004	-.004	-.007	-.003
7	-.015	.001	-.007	.005	-.005	-.002	.000	.009	.001	.010	.001	.011
8	[illegible]	.004	-.007	-.010	-.011	.001	[illegible]	.005	-.002	.004	-.007	.002
9	[illegible]	-.007	-.007	-.002	-.004	-.007	[illegible]	[illegible]	.001	.005	.001	.007
10	.007	.004	.004	.008	.000	[illegible]	.001	.007	-.003	.007	-.007	.006

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 190 ALPHA-MCL = 2.0 PDP RUN,PT 2.11
RUN 2 ALPHA-RAR = 2.0 G-COMP = .33314
POINT 5 SIGMA = 0. V-REF = 202.49
COMPUTED FREQUENCY = 19.22, K = .1491

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	10.891	169.94	4.594	172.78	2.488	179.43	1.354	197.30	.693	222.33	.650	299.08	1.151	333.78
2	.952	253.57	.143	298.53	.126	350.70	.143	341.43	.181	305.41	.251	277.87	.304	270.91
3	.431	323.28	.052	155.90	.110	148.77	.053	163.83	.074	243.67	.083	225.04	.070	176.36
4	.330	32.03	.019	249.41	.043	229.15	.023	345.82	.045	309.51	.068	206.75	.050	225.40
5	.147	88.39	.041	1.55	.037	37.61	.066	67.44	.024	50.84	.036	80.90	.036	61.16
6	.050	173.49	.036	123.82	.045	140.22	.044	136.72	.031	322.77	.034	129.29	.018	144.41
7	.034	8.30	.032	37.55	.010	39.63	.026	79.48	.021	85.91	.019	87.07	.021	128.06
8	.053	219.25	.015	186.17	.003	261.13	.014	146.96	.006	265.21	.004	84.64	.007	50.25
9	.091	8.57	.032	34.67	.022	53.86	.013	81.02	.021	77.42	.019	86.97	.015	148.11
10	.047	141.13	.027	169.93	.021	186.17	.016	177.23	.013	175.12	.014	179.02	.005	307.39

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.274	343.42	1.327	350.36	1.163	354.65	8.237	347.76	4.934	338.14	2.435	355.97	1.794	3.98
2	.313	274.38	.330	280.93	.319	284.23	.837	260.11	.603	192.92	.349	277.95	.321	284.60
3	.066	173.36	.067	182.22	.064	190.78	.086	205.94	.335	229.23	.056	203.56	.054	207.64
4	.047	249.67	.051	247.16	.048	241.06	.079	206.73	.092	140.02	.055	222.11	.051	230.93
5	.031	74.03	.029	55.92	.036	38.51	.030	106.80	.017	146.02	.025	44.50	.031	50.70
6	.016	123.52	.020	136.52	.020	142.01	.010	298.40	.024	108.54	.009	268.94	.014	284.58
7	.013	132.59	.009	125.65	.009	114.12	.058	184.46	.033	201.37	.017	193.32	.011	193.62
8	.007	54.84	.007	74.50	.005	56.01	.029	30.74	.025	52.33	.019	75.00	.005	141.71
9	.013	152.75	.012	168.54	.008	144.73	.054	191.22	.034	197.46	.022	206.09	.017	226.92
10	.001	310.45	.005	344.31	.001	68.55	.032	352.48	.024	6.15	.021	6.01	.018	21.46

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.218	14.19	1.341	23.56	1.013	39.83	1.059	26.57	.943	24.17	.830	21.10
2	.273	289.62	.363	293.39	.320	296.59	.337	285.17	.309	288.23	.283	291.87
3	.052	191.59	.075	182.94	.049	108.09	.074	203.42	.067	197.81	.060	190.94
4	.042	240.94	.055	252.08	.056	262.54	.061	236.71	.054	241.40	.047	247.39
5	.026	31.49	.044	48.74	.045	12.57	.031	49.67	.032	49.01	.033	48.40
6	.011	280.48	.029	289.84	.020	236.04	.006	225.23	.005	226.17	.005	223.57
7	.005	162.13	.005	111.41	.005	202.70	.009	88.01	.013	55.74	.011	84.02
8	.005	119.33	.005	182.80	.011	176.66	.005	105.80	.004	114.30	.003	132.36
9	.006	278.98	.004	220.38	.004	185.79	.003	67.89	.005	83.28	.007	84.30
10	.009	29.39	.009	62.75	.010	87.73	.007	79.52	.007	112.38	.010	137.33

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 193 ALPHA-MCL = 2.0 PRP RUN.PT 2.11
RUN 2 ALPHA-BAR = 2.0 C-COMP = .33314
POINT 5 SIGMA = 0. V-REF = 202.49
COMPUTED FREQUENCY = 19.22, K = .1491

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.262		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	19.734	-3.640	9.137	-2.414	4.917	-.196	3.113	.413	1.693	.765	.914	1.105	-.254	1.158
2	.155	.189	-.557	-.179	-.276	-.325	-.054	-.265	-.010	-.119	.110	-.085	.138	.018
3	-.422	.222	-.173	-.276	.043	-.089	.003	-.040	-.013	.056	-.016	.055	.055	.042
4	-.351	-.211	-.364	.177	-.013	-.034	-.054	-.034	-.049	-.002	.044	-.021	.028	-.020
5	-.013	-.119	-.352	.077	-.011	-.005	-.036	-.037	.037	-.005	.024	-.002	.026	-.022
6	.055	-.016	.012	-.007	.035	-.037	.036	-.044	-.022	.008	.031	-.053	.004	-.027
7	-.021	-.009	-.156	-.031	-.024	-.017	-.016	-.028	-.035	-.015	-.003	-.014	.008	-.019
8	.066	.049	.037	.021	.003	.012	.027	-.074	-.032	.015	-.005	-.024	-.015	-.005
9	-.103	-.023	-.159	-.029	-.033	-.027	-.013	-.025	-.011	-.023	-.004	-.022	.009	-.008
10	.259	-.034	.057	-.032	.041	.004	.033	.006	.025	.003	.018	.007	-.003	.014

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.274	.337	-.447	.679	-.384	.407
2	.064	-.013	.034	.071	.027	.047
3	-.032	-.037	.037	-.018	.004	.001
4	-.017	-.007	-.036	-.070	.005	-.001
5	.011	-.007	.005	.070	-.006	.007
6	.025	-.018	.011	-.018	.012	-.016
7	.039	-.001	.006	.003	.005	.003
8	-.005	-.001	-.034	-.074	-.005	-.002
9	.012	-.003	.012	.003	.008	.007
10	.071	.008	-.008	.008	-.008	.005

N	CNREAL	CNIMAG
1	2.326	.205
2	-.014	-.035
3	-.019	-.010
4	-.022	-.012
5	.002	-.012
6	.015	-.024
7	-.010	-.013
8	.001	.007
9	-.011	-.016
10	.019	.005

N	CMREAL	CMIMAG
1	.080	-.188
2	-.029	-.022
3	-.011	-.008
4	-.010	-.001
5	-.003	-.002
6	.002	-.001
7	-.005	-.002
8	.003	.002
9	-.006	-.003
10	.006	-.001

*** WALL PRESSURES, PER RADIAN ***

*** STABILITY PARAMETER

XI = .1883

WALL NO.	W1		W2		W4		W6		W10	
LAP FRACTION	-.125		[illegible]		.125		.530		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.238	-.375	-.232	-.605	-5.707	.437	-1.046	-.333	-4.820	.059
2	.027	-.195	.194	-.133	-.013	-.996	.022	-.206	.160	-.638
3	-.053	-.018	-.131	-.134	.159	-.043	-.041	.019	.039	-.094
4	-.036	-.025	-.013	.010	.027	.003	-.003	-.029	-.010	-.018
5	.029	.021	.028	.011	.036	.003	.020	.015	.054	-.011
6	[illegible]	.014	-.018	.012	-.025	.052	-.072	.027	-.034	.051
7	[illegible]	[illegible]	-.006	.022	.022	.021	-.008	.026	-.001	.013
8	[illegible]	[illegible]	-.003	[illegible]	-.005	.005	-.002	-.001	-.015	-.070
9	[illegible]	[illegible]	-.002	.010	.034	.017	.004	.013	.019	.022
10	[illegible]	[illegible]	.001	[illegible]	-.026	.006	-.010	.002	-.031	-.005

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 193 ALPHA-MCL = 2.0 PDP RUN.PT 2.11
RUN 2 ALPHA-RAR = 2.0 Q-COMP = .33314
POINT 5 SIGMA = 0. V-REF = 202.49
COMPUTED FREQUENCY = 19.22, K = .1491

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	19.095	349.00	9.450	345.20	4.921	357.71	3.141	7.56
2	.154	35.26	.657	180.77	.334	256.91	.271	259.45
3	.476	152.48	.325	237.97	.090	298.29	.040	274.49
4	.479	211.00	.101	129.60	.013	198.42	.064	211.92
5	.119	263.81	.053	172.95	.012	233.19	.037	261.23
6	.067	346.09	.014	329.74	.051	312.72	.057	339.14
7	.092	195.89	.068	209.23	.026	202.96	.032	239.71
8	.092	36.22	.037	35.04	.013	76.33	.008	330.35
9	.135	189.63	.066	275.78	.043	219.84	.028	241.93
10	.076	333.65	.050	357.44	.041	6.09	.033	9.90

X =	.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.853	24.33	1.434	50.90	1.186	102.38
2	.119	265.15	.139	322.23	.139	7.37
3	.059	107.96	.057	106.71	.069	37.20
4	.049	181.76	.049	333.99	.034	324.26
5	.009	321.37	.024	354.12	.034	319.81
6	.024	160.25	.062	300.31	.027	278.00
7	.019	252.09	.015	258.55	.020	292.97
8	.013	100.09	.007	218.58	.016	196.95
9	.025	246.65	.022	259.97	.012	316.85
10	.026	5.92	.020	22.13	.014	100.87

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.881	108.10	.755	126.30	.560	133.32
2	.065	348.83	.046	41.83	.054	60.04
3	.037	266.88	.018	280.78	.004	8.20
4	.018	202.13	.006	182.72	.005	345.11
5	.013	329.87	.005	3.67	.006	157.23
6	.019	285.62	.021	301.94	.020	308.69
7	.009	352.37	.006	28.20	.006	28.58
8	.006	195.91	.005	224.77	.005	206.51
9	.012	346.69	.013	12.20	.008	17.15
10	.008	86.12	.011	132.88	.009	145.96

N	CN-MAG	PHIN
1	2.346	7.47
2	.086	260.41
3	.020	209.24
4	.025	209.03
5	.013	281.00
6	.028	301.53
7	.016	234.33
8	.004	68.98
9	.019	233.87
10	.019	14.48

N	CM-MAG	PHIM
1	.900	347.93
2	.037	217.37
3	.014	214.93
4	.010	186.96
5	.004	218.41
6	.002	340.51
7	.006	203.35
8	.004	35.83
9	.007	205.20
10	.006	349.32

*** STABILITY PARAMETER

XI = .1883

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.377	264.26	.648	249.07	5.717	175.92	1.098	197.63	4.820	179.30
2	.197	277.78	.235	325.66	.996	269.25	.208	276.17	.658	284.08
3	.156	198.66	.167	218.58	.165	344.74	.045	156.87	.099	287.71
4	.044	214.76	.016	143.03	.023	6.98	.029	265.00	.021	239.92
5	.036	35.79	.030	21.85	.086	2.07	.025	36.24	.055	348.30
6	.024	145.78	.021	146.60	.059	118.28	.032	132.85	.062	123.68
7	.014	120.52	.022	105.25	.031	43.75	.027	107.40	.013	92.14
8	.005	150.36	.003	189.11	.007	136.17	.002	206.71	.015	180.68
9	.009	116.84	.010	103.30	.038	27.19	.014	72.81	.029	51.52
10	.002	132.19	.006	280.16	.027	166.92	.010	173.60	.031	189.45

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 1 ALPHA-MCL = 2.0 PDP RUN.PT 3.05
RUN 3 ALPHA-BAR = 2.0 Q-COMP = .32493
POINT 1 SIGMA = 45. V-REF = 199.97
COMPUTED FREQUENCY = 9.22, K = .0724

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.459	-8.819	-6.221	-2.056	-3.788	-.619	-2.547	.237	-1.879	1.076	-1.371	1.961	-.922	2.572
2	3.237	-1.941	-.035	-.060	-.076	-.004	-.068	.020	-.065	.016	.008	.025	.073	.052
3	-.429	1.142	-.365	-.144	-.355	-.051	-.347	-.029	-.353	-.030	-.375	-.043	-.371	-.094
4	.039	.155	-.014	.060	-.059	.015	-.055	.031	-.005	.050	.055	.076	.024	.074
5	-.573	.308	-.031	.037	-.018	.019	-.063	.043	-.083	.078	-.063	.052	-.032	.045
6	.118	-.430	.022	.020	.020	-.007	.003	-.039	.005	-.005	.034	.048	.003	.002
7	-.021	.100	-.024	.064	.021	.079	.001	.070	-.055	.057	-.015	.071	-.018	.063
8	.290	-.111	.016	.010	-.011	.008	.017	-.020	.007	-.014	-.028	.004	-.010	-.005
9	.041	.197	.025	.004	.024	.029	.030	.053	.022	.008	.019	.044	.019	.029
10	-.080	-.045	-.018	-.002	-.035	-.006	-.012	.006	-.005	.007	-.019	.013	-.009	.012

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.627	2.602	-.503	2.427	-.486	2.286	9.586	7.373	5.290	4.336	2.382	3.238	1.449	2.673
2	.112	.055	.094	.054	.062	.047	1.050	-.349	.391	-.986	.102	-.035	.013	-.019
3	-.341	-.116	-.357	-.093	-.378	-.065	-.253	-.094	.021	.211	-.328	-.082	-.345	-.057
4	-.001	.038	-.000	.052	.002	.058	.072	-.025	.273	-.257	.021	.019	.026	.026
5	-.050	.045	-.059	.051	-.063	.047	-.076	-.003	-.051	.143	-.063	.020	-.060	.017
6	-.001	.015	-.003	.017	-.004	.013	.018	.032	.118	.024	.009	.013	.002	.012
7	-.023	.056	-.006	.063	-.011	.063	-.001	.026	-.026	.055	-.009	.048	-.017	.058
8	-.022	-.002	-.001	-.011	-.011	-.006	-.071	-.038	-.054	.027	-.033	-.016	-.022	-.013
9	.006	.046	.011	.032	.006	.036	-.034	.069	-.001	.045	-.006	.052	-.002	.046
10	-.004	.023	-.009	.013	-.009	.019	.018	.054	-.030	.028	.007	.031	.005	.032

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.737	2.041	.522	2.245	.050	1.727	-.020	1.765	-.469	1.671	-.255	1.457
2	-.007	.003	-.018	.022	-.034	.049	.098	-.054	.021	.001	.043	-.080
3	-.314	-.068	-.387	-.092	-.376	-.160	-.360	-.079	-.367	-.047	-.309	-.084
4	.011	.020	.003	.036	-.046	.039	.035	.046	-.005	.035	-.001	.030
5	-.058	.027	-.066	.036	-.050	.011	-.073	.046	-.069	.044	-.055	.040
6	.006	.001	.005	.005	-.021	-.010	.022	.017	.017	.011	.010	.009
7	-.010	.054	-.016	.066	.003	.068	-.007	.061	-.016	.059	-.012	.058
8	-.026	-.015	-.003	-.021	-.014	-.022	.001	-.001	-.002	-.001	-.002	-.004
9	.003	.048	-.001	.033	-.006	.043	.011	.029	.014	.040	.036	.028
10	-.001	.025	.005	.028	.011	.020	-.005	.021	-.008	.027	-.009	.012

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	1	ALPHA-MCL = 2.0	PDP RUN.PT 3.05
RUN	3	ALPHA-BAR = 2.0	Q-COMP = .32493
POINT	1	SIGMA = 45.	V-REF = 199.97

COMPUTED FREQUENCY = 9.22, K = .0724

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.560	206.80	6.552	198.29	3.838	189.27	2.558	174.68	2.166	150.21	2.393	124.95	2.732	109.72
2	3.775	329.05	.070	239.68	.076	163.28	.071	163.99	.067	165.84	.026	71.95	.089	35.45
3	1.220	110.56	.392	201.48	.360	189.71	.348	184.70	.354	184.91	.378	186.53	.383	194.16
4	.160	75.80	.061	102.91	.061	166.13	.063	150.40	.050	95.98	.094	54.00	.078	72.10
5	.651	151.75	.049	129.46	.027	134.15	.076	145.37	.114	136.83	.082	140.31	.055	125.16
6	.446	285.31	.030	42.58	.021	340.34	.039	274.42	.007	317.71	.048	84.97	.004	34.59
7	.102	101.75	.068	110.65	.082	75.28	.070	88.94	.079	133.78	.073	101.85	.066	106.12
8	.311	339.12	.019	30.75	.014	142.94	.027	310.32	.016	295.42	.029	172.76	.011	207.53
9	.201	78.21	.025	8.19	.038	50.75	.061	60.11	.024	20.32	.047	67.04	.035	56.91
10	.092	209.64	.019	165.74	.036	190.00	.013	151.94	.008	124.52	.023	146.09	.015	128.62

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.676	103.56	2.479	101.71	2.337	102.00	12.094	37.56	6.840	39.34	4.019	53.66	3.040	61.54
2	.125	26.06	.109	29.67	.078	37.54	1.107	341.60	1.061	291.65	.138	341.27	.023	303.97
3	.360	198.75	.369	194.63	.384	189.76	.270	200.43	.212	84.42	.338	194.10	.350	189.35
4	.038	91.48	.052	90.33	.058	87.94	.076	341.17	.375	316.69	.029	42.30	.037	45.93
5	.075	143.21	.078	139.05	.079	143.57	.076	182.32	.152	109.62	.066	162.12	.063	164.53
6	.015	92.29	.017	100.06	.013	106.18	.037	60.45	.120	11.68	.016	55.81	.012	81.70
7	.060	112.18	.063	95.53	.064	100.00	.026	93.13	.061	114.95	.049	100.24	.060	106.03
8	.022	185.35	.011	265.20	.013	206.33	.081	208.54	.060	153.52	.037	205.69	.026	211.69
9	.047	82.88	.034	70.50	.036	81.17	.077	116.05	.045	91.81	.052	95.57	.046	92.19
10	.023	98.77	.016	125.38	.020	114.79	.057	71.28	.041	136.71	.032	77.55	.032	81.80

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.170	70.15	2.305	76.91	1.728	88.35	1.765	90.64	1.736	105.68	1.479	99.93
2	.008	158.71	.025	115.09	.060	124.96	.112	331.05	.021	2.48	.091	298.15
3	.321	192.30	.397	193.32	.409	202.99	.368	192.34	.370	187.22	.320	195.15
4	.023	60.97	.036	84.92	.060	139.27	.058	52.91	.035	97.50	.030	92.66
5	.064	154.76	.075	151.15	.051	167.17	.086	147.63	.082	147.13	.068	144.11
6	.006	14.00	.007	49.20	.023	204.38	.027	37.46	.020	33.61	.014	41.12
7	.055	100.65	.068	103.96	.068	87.84	.061	96.22	.061	104.83	.059	101.77
8	.016	249.04	.021	262.54	.026	237.11	.001	310.90	.002	209.87	.004	242.07
9	.028	84.80	.033	91.55	.044	100.10	.031	68.37	.042	71.27	.029	78.51
10	.025	91.67	.029	80.30	.023	61.07	.021	103.84	.028	106.64	.015	123.83

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 1 ALPHA-MCL = 2.0 PDP RUN.PT 3.05
RUN 3 ALPHA-BAR = 2.0 Q-COMP = .32493
POINT 1 SIGMA = 45. V-REF = 199.97
COMPUTED FREQUENCY = 9.22, K = .0724

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	27.045	16.192	11.512	6.392	6.170	3.856	3.996	2.435	2.616	.965	1.893	.283	.972	-.845
2	-2.197	1.592	.427	-.926	.179	-.030	.081	-.039	.058	-.014	-.018	-.002	-.107	-.003
3	.175	-1.237	.366	.355	.027	-.022	.002	-.028	.039	-.038	-.011	-.049	-.005	-.066
4	.033	-.160	.287	-.317	.081	.005	.080	-.005	.017	-.030	-.052	-.040	-.070	-.035
5	.498	-.311	-.020	.105	-.044	.001	.002	-.027	.025	-.051	-.003	-.016	-.018	-.034
6	-.100	.462	.095	.004	-.011	.020	-.001	.051	.001	.006	.000	-.042	-.025	-.012
7	.019	-.075	-.002	-.009	-.029	-.031	-.018	-.012	.044	-.003	-.001	-.005	.021	.005
8	-.361	.032	-.070	.017	-.022	-.024	-.039	.007	-.013	-.001	.026	-.024	-.004	-.017
9	-.075	-.127	-.026	.041	-.030	.023	-.032	-.007	-.020	.020	-.019	-.010	-.027	.014
10	.098	.099	-.012	.030	.042	.037	.016	.026	.004	.018	.024	.016	.021	.008

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.608	-.937	.034	-.756	.231	-.829
2	-.014	-.109	-.074	-.053	-.019	-.128
3	-.019	.037	-.010	.047	.069	-.019
4	.036	.008	-.004	-.017	-.003	-.028
5	-.013	.002	-.010	-.006	.008	-.007
6	.022	.001	.020	-.006	.014	-.004
7	.016	.005	-.009	-.004	-.001	-.005
8	.023	.001	-.001	.010	.009	.002
9	.006	-.019	.002	.008	.000	-.008
10	-.002	-.002	.001	.014	.000	-.006

N	CNREAL	CNIMAG
1	3.563	1.496
2	-.025	-.051
3	.042	-.035
4	.028	-.044
5	.009	-.020
6	.004	.016
7	.005	-.008
8	-.019	-.003
9	-.019	.001
10	.015	.018

N	CMREAL	CMIMAG
1	1.076	.744
2	-.006	.003
3	.014	-.010
4	.015	-.011
5	.006	-.002
6	-.000	.010
7	-.001	-.003
8	-.011	.001
9	-.004	.001
10	.003	.005

*** STABILITY PARAMETER

* XI = -.7438 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.406	2.233	-.385	2.022	-8.357	-2.096	-2.234	.728	-3.840	-6.008
2	-.090	.084	-.631	.375	1.202	-1.219	-.040	-.085	1.322	.976
3	-.451	-.093	-.460	.129	-.354	.298	-.475	-.113	-.628	.042
4	-.015	.072	.018	.106	-.050	.015	.046	.047	-.081	-.015
5	-.049	.043	-.053	.067	-.110	.136	-.053	.032	.050	-.133
6	.040	.031	.079	.014	.012	-.027	.009	.008	-.010	.079
7	-.004	.067	-.015	.063	-.039	.097	-.016	.087	-.051	.136
8	-.032	-.038	-.039	.005	.024	-.042	-.002	-.003	.081	-.002
9	-.003	.044	.022	.075	.015	.047	.015	.041	.031	.011
10	.017	.025	.014	.039	-.029	-.034	-.024	.003	-.030	-.000

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 1	ALPHA-MCL = 2.0	PDP RUN.PT 3.05
RUN 3	ALPHA-BAR = 2.0	Q-COMP = .32493
POINT 1	SIGMA = 45.	V-REF = 199.97

COMPUTED FREQUENCY = 9.22, K = .0724

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	31.522	30.91	13.167	29.04	7.276	32.00	4.680	31.36	2.789	20.24	1.914	8.52	1.288	318.98
2	2.705	143.94	1.019	294.75	.181	350.39	.090	334.41	.060	346.74	.019	187.42	.107	181.52
3	1.249	278.07	.524	42.60	.034	320.99	.028	273.35	.055	315.70	.050	256.84	.066	265.64
4	.183	280.42	.427	312.12	.081	3.36	.081	356.53	.034	299.18	.066	217.47	.078	206.39
5	.587	327.99	.107	100.77	.044	178.42	.027	274.79	.057	296.39	.016	260.91	.038	242.52
6	.473	102.15	.095	2.31	.023	117.94	.051	91.35	.006	85.04	.042	270.68	.028	205.94
7	.077	284.60	.009	259.80	.043	226.18	.021	213.24	.045	356.22	.005	254.59	.021	13.68
8	.368	168.69	.072	166.13	.033	228.13	.040	169.92	.013	183.61	.035	316.73	.017	256.25
9	.148	239.54	.049	122.56	.037	142.80	.033	191.99	.028	134.48	.022	207.92	.030	151.91
10	.139	45.29	.032	111.07	.056	41.31	.030	57.46	.016	77.26	.029	33.58	.022	22.13

X =	.774		.860		.910		N	CN-MAG	PHIN	M	CM-MAG	PHIM
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI						
1	1.034	306.00	.757	272.58	.661	285.57	1	3.864	22.78	1	1.308	34.67
2	.110	262.48	.091	215.61	.129	261.60	2	.056	244.06	2	.006	155.69
3	.042	117.61	.048	102.11	.072	344.99	3	.054	320.23	3	.017	325.46
4	.037	12.06	.018	255.99	.028	262.87	4	.052	302.93	4	.019	325.48
5	.013	173.06	.012	212.65	.010	320.00	5	.022	295.71	5	.007	343.23
6	.022	3.52	.021	344.48	.014	345.02	6	.016	76.37	6	.010	90.24
7	.017	15.91	.010	203.05	.005	257.32	7	.009	300.49	7	.003	288.62
8	.023	2.97	.010	95.86	.010	12.01	8	.019	188.68	8	.011	174.18
9	.018	287.57	.008	74.60	.008	271.36	9	.019	175.84	9	.004	170.54
10	.003	238.91	.014	65.38	.006	273.10	10	.023	49.94	10	.005	59.80

*** STABILITY PARAMETE

*
* XI = -.7438
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.270	100.30	2.059	100.78	8.616	194.08	2.350	161.95	7.131	237.42
2	.123	136.97	.734	149.30	1.712	319.60	.094	244.95	1.644	36.44
3	.460	191.59	.478	164.30	.463	139.91	.489	193.36	.630	176.18
4	.074	101.87	.108	80.15	.052	163.07	.066	45.33	.083	190.60
5	.065	139.24	.085	128.41	.175	129.07	.062	149.14	.142	290.45
6	.050	38.37	.081	10.36	.030	293.62	.012	40.51	.079	97.20
7	.067	93.71	.065	103.36	.104	111.93	.089	100.55	.145	110.37
8	.033	193.66	.039	172.33	.048	300.04	.003	237.08	.081	358.91
9	.044	90.12	.078	73.97	.049	72.07	.044	69.40	.032	20.03
10	.031	56.49	.041	70.58	.044	229.64	.024	172.95	.030	180.16

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 3 ALPHA-MCL = 2.0 PDP RUN.PT 3.07
RUN 3 ALPHA-BAR = 2.0 Q-COMP = .32370
POINT 3 SIGMA = 45. V-REF = 199.58
COMPUTED FREQUENCY = 15.54, K = .1223

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.651-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.159	-7.373	-6.767	-1.869	-4.236	-.701	-2.933	-.001	-2.258	.723	-1.703	1.539	-1.168	2.123
2	2.668	-2.355	-.105	-.060	-.121	-.001	-.110	.014	-.082	.003	-.019	-.005	.051	.009
3	.211	1.139	-.041	-.136	-.013	-.066	.001	-.054	.019	-.062	.015	-.062	.003	-.094
4	.387	.029	.041	.009	-.035	-.011	-.036	-.007	.010	-.006	.077	-.035	.042	-.029
5	-.370	.500	.014	.009	.038	-.019	.025	.001	.028	.054	.048	.007	.054	-.020
6	-.086	-.384	.052	.021	.018	-.003	-.015	-.020	-.006	.004	.035	.020	.002	-.009
7	.133	-.124	.011	-.033	.054	-.030	.040	-.031	-.008	-.013	.018	-.010	.014	.010
8	-.029	-.115	-.022	.020	-.010	.038	-.004	.001	-.051	-.034	.007	.032	.020	-.003
9	.183	.182	.011	.005	.008	.009	.026	.004	-.020	-.002	-.009	-.016	-.021	-.024
10	-.077	.022	.008	.012	-.016	.038	-.004	.033	.009	.018	.034	.045	-.005	.025

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.874	2.107	-.793	2.034	-.787	1.836	9.657	6.210	5.045	3.333	2.129	2.802	1.123	[illegible]
2	.096	.036	.077	.020	.046	.022	.963	-.606	-.200	-.852	.073	-.094	-.007	[illegible]
3	.034	-.123	.017	-.135	.020	-.083	.041	-.230	.364	-.134	.010	-.120	.023	[illegible]
4	.008	-.036	.015	-.034	.019	-.025	-.057	-.109	-.101	-.295	-.020	-.050	.004	-.041
5	.038	-.004	.029	.002	.047	-.006	.001	-.051	.103	.007	.023	-.018	.028	-.014
6	.005	-.008	.006	.007	.002	-.011	-.098	-.000	-.033	-.079	-.035	-.013	-.026	-.017
7	.007	-.004	.020	.010	.006	.008	.005	.117	.004	.077	-.001	.037	-.004	.017
8	.004	.009	.023	-.010	.022	-.003	.046	-.042	.062	-.017	.012	-.017	.005	-.011
9	-.014	-.009	-.017	-.032	-.013	-.026	-.042	-.037	-.033	-.020	-.008	-.002	-.007	-.005
10	.016	.028	-.007	.010	.008	.013	-.003	.019	.019	.033	.012	-.007	.012	.003

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.401	1.838	.113	2.061	-.340	1.621	-.428	1.618	-.565	1.466	-.701	1.313
2	-.022	-.014	-.016	-.054	-.023	.039	.055	-.099	.016	-.070	-.022	-.042
3	.039	-.082	.006	-.113	-.060	-.130	.025	-.092	.015	-.099	.005	-.107
4	-.010	-.036	-.011	-.033	-.027	.005	.027	-.048	.021	-.039	.016	-.031
5	.024	-.005	.029	-.000	.011	-.012	.042	.019	.038	.015	.034	.011
6	-.013	-.015	-.015	-.011	-.026	.002	.019	-.010	.013	-.008	.007	-.006
7	-.007	.012	-.010	.001	-.014	-.003	-.007	.000	-.004	-.001	-.002	-.002
8	.007	-.009	-.007	-.005	-.004	.005	.020	.001	.015	.003	.010	.004
9	-.011	-.003	-.007	-.001	.001	-.007	-.002	-.018	-.004	-.017	-.006	-.016
10	.017	.009	.018	.003	.003	.013	.029	.010	.028	.018	.026	.025

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 3 ALPHA-MCL = 2.0 PDP RUN.PT 3.07
RUN 3 ALPHA-RAR = 2.0 Q-COMP = .32370
POINT 3 SIGMA = 45. V-REF = 199.58
COMPUTED FREQUENCY = 15.54, K = .1223
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.598	202.10	7.020	195.44	4.294	189.40	2.933	180.03	2.371	162.25	2.295	137.88	2.423	118.82
2	3.559	318.56	.121	209.56	.121	180.45	.111	172.56	.082	178.17	.019	195.52	.052	9.97
3	1.159	79.52	.144	253.28	.067	258.85	.054	270.78	.065	287.22	.063	283.47	.094	271.61
4	.092	18.55	.042	12.66	.036	196.98	.036	190.65	.012	329.20	.084	335.76	.051	325.14
5	.622	126.51	.017	33.64	.043	332.98	.025	1.73	.061	62.43	.049	7.98	.058	339.65
6	.393	257.39	.056	22.15	.018	349.25	.025	232.24	.007	147.36	.041	29.69	.009	281.68
7	.182	317.02	.034	289.26	.062	330.73	.050	322.39	.015	238.79	.020	330.57	.018	35.37
8	.118	256.02	.029	137.30	.039	105.26	.004	159.69	.051	184.41	.032	77.37	.020	350.98
9	.258	44.96	.012	23.90	.012	45.94	.027	8.07	.020	185.52	.018	241.50	.032	228.79
10	.080	164.30	.015	56.62	.041	113.31	.033	97.41	.020	64.64	.045	85.06	.025	101.53

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.281	112.53	2.183	111.28	1.997	113.19	11.490	32.72	6.047	33.45	3.519	52.78	2.614	64.56
2	.096	3.58	.080	14.72	.051	25.78	1.138	327.81	.876	256.79	.119	308.02	.041	260.91
3	.123	272.01	.106	279.11	.086	283.39	.234	280.08	.387	339.84	.120	274.87	.086	284.83
4	.037	283.00	.037	293.24	.032	307.31	.123	242.27	.312	251.06	.054	248.34	.041	276.26
5	.038	354.70	.029	3.00	.048	352.22	.051	271.00	.103	3.73	.029	321.86	.031	334.44
6	.010	299.51	.009	49.77	.011	282.17	.098	180.12	.086	247.66	.037	200.95	.031	212.97
7	.008	332.92	.023	27.26	.010	50.93	.117	87.36	.077	86.96	.037	91.53	.017	103.40
8	.010	62.91	.025	337.32	.022	351.89	.063	317.32	.064	344.59	.021	305.93	.012	296.39
9	.016	213.07	.036	241.24	.029	244.17	.056	221.32	.038	211.19	.008	197.05	.008	214.81
10	.032	60.96	.010	91.08	.016	59.46	.019	97.86	.038	60.21	.014	330.96	.013	12.31

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.882	77.69	2.064	86.85	1.657	101.86	1.674	104.82	1.571	111.07	1.489	118.10
2	.026	212.46	.017	194.69	.045	120.45	.113	299.15	.072	283.16	.047	242.09
3	.082	276.41	.114	273.84	.143	245.32	.095	285.40	.100	278.71	.107	272.74
4	.037	253.77	.035	252.24	.027	169.31	.055	298.91	.045	298.53	.035	297.92
5	.024	347.14	.029	359.57	.016	310.41	.046	24.75	.041	21.65	.036	17.65
6	.024	219.26	.019	216.32	.026	176.28	.021	332.96	.015	328.64	.010	319.30
7	.014	119.74	.010	175.17	.015	193.57	.007	175.75	.004	188.71	.003	218.86
8	.012	309.72	.010	211.47	.006	129.77	.020	4.03	.015	10.45	.011	22.70
9	.011	197.67	.003	211.62	.007	277.24	.018	264.47	.017	256.56	.017	248.44
10	.019	26.41	.018	10.53	.013	78.46	.031	18.66	.033	32.65	.036	44.60

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 3 ALPHA-MCL = 2.0 POP RUN.PT 3.07
RUN 3 ALPHA-PAR = 2.0 Q-COMP = .32370
POINT 3 SIGMA = 45. V-REF = 199.58
COMPUTED FREQUENCY = 15.54, K = .1223

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	27.826	13.583	11.812	5.202	6.365	3.503	4.056	2.362	2.659	1.115	1.816	.522	.828	-.502
2	-1.705	1.749	-.095	-.793	.194	-.093	.103	-.055	.060	-.016	.003	.001	-.074	.030
3	-.170	-1.370	.405	.004	.023	-.054	.022	-.031	-.010	-.020	-.007	-.052	-.063	-.036
4	-.144	-.138	-.142	-.305	.015	-.039	.040	-.034	-.021	-.029	-.088	.001	-.069	.034
5	.371	-.551	.039	-.003	-.015	.001	.003	-.014	-.005	-.059	-.020	-.007	-.044	.008
6	-.013	.384	-.085	-.100	-.053	-.010	-.010	.003	-.013	-.019	-.051	-.031	-.028	.011
7	-.128	.241	-.007	.109	-.055	.067	-.044	.047	.001	.025	-.029	.011	-.029	-.014
8	.075	.072	.084	-.037	.022	-.055	.009	-.012	.058	-.005	-.016	-.037	-.024	.008
9	-.224	-.219	-.044	-.025	-.016	-.011	-.033	-.009	.009	-.001	.007	.015	.022	.017
10	.074	-.063	.011	.021	.028	-.045	.017	-.030	.009	-.009	.014	-.042	.008	-.012

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.446	-.489	.228	-.569	.085	-.523
2	-.041	-.105	-.061	-.090	-.068	-.064
3	.021	.031	-.002	.005	-.015	-.023
4	.018	-.012	.007	-.006	-.003	-.005
5	.004	.023	.009	.014	-.013	.017
6	.014	-.001	.007	-.015	.005	.004
7	-.014	.004	-.025	-.011	-.009	-.010
8	.016	-.007	-.009	.012	-.012	.007
9	.012	-.009	.013	.015	.006	.010
10	.014	-.018	.028	.007	.018	.012

N	CNREAL	CNIMAG
1	3.593	1.457
2	-.041	-.037
3	.018	-.064
4	-.029	-.035
5	.007	-.022
6	-.023	-.002
7	-.026	.030
8	.014	-.012
9	-.008	-.006
10	.016	-.016

N	CMREAL	CMIMAG
1	1.116	.623
2	-.011	.004
3	.012	-.023
4	-.004	-.014
5	.009	-.011
6	-.005	.002
7	-.004	.012
8	.006	-.003
9	-.007	-.005
10	.001	-.002

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.003		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.898	1.756	-.932	1.564	-8.983	-1.838	-2.680	.394	-4.244	-5.951
2	-.133	.074	-.549	.296	.896	-1.423	-.116	-.135	1.140	.637
3	.020	-.152	-.012	.033	.223	.249	-.022	-.088	-.026	-.040
4	-.001	-.026	.015	-.022	-.036	-.040	.039	-.034	-.057	.049
5	.046	-.023	.049	.039	.042	.140	.023	-.011	.068	-.158
6	-.013	-.013	.013	-.005	.004	.007	.012	.004	-.054	.089
7	.020	.019	-.006	.008	.030	-.038	.016	-.001	.024	.011
8	.003	.011	-.015	-.015	-.038	.030	-.019	.005	.022	.012
9	-.008	-.008	-.007	-.013	-.036	.014	-.021	.007	.011	-.023
10	.021	-.000	.010	.003	-.003	-.048	-.001	.018	-.029	.024

*** STABILITY PARAMETER

****
* XI = -.6235 *
****

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 3	ALPHA-MCL = 2.0	PDP RUN.PT	3.07
RUN 3	ALPHA-BAR = 2.0	Q-COMP =	.32370
POINT 3	SIGMA = 45.	V-REF =	199.58

COMPUTED FREQUENCY = 15.54, K = .1223

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	30.964	26.02	12.907	23.77	7.265	28.83	4.694	30.21	2.884	22.75	1.849	16.03	.968	328.77
2	2.442	134.26	.799	263.15	.215	334.49	.117	331.85	.063	344.76	.033	20.28	.080	158.05
3	1.380	262.93	.405	.62	.059	293.11	.038	305.08	.022	243.30	.052	262.19	.072	210.00
4	.200	223.73	.336	245.02	.042	290.82	.053	319.61	.036	234.70	.008	179.23	.077	153.58
5	.664	303.96	.089	358.21	.015	175.20	.015	283.14	.059	265.63	.021	199.54	.044	170.07
6	.384	91.88	.131	229.90	.053	190.66	.011	162.36	.023	235.51	.060	211.79	.030	159.19
7	.273	117.96	.110	93.82	.087	129.10	.064	132.68	.025	88.59	.030	158.57	.032	205.58
8	.104	44.05	.092	336.12	.059	292.31	.015	307.01	.059	355.18	.040	246.63	.025	161.70
9	.313	224.32	.050	209.40	.019	214.15	.034	194.35	.009	350.78	.016	65.93	.028	38.03
10	.074	357.76	.024	62.43	.053	302.52	.034	299.07	.013	312.64	.044	288.18	.014	303.74

X =	.774		.860		.910							
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	N	CN-MAG	PHIN	N	CM-MAG	PHIM
1	.662	312.40	.613	291.84	.530	279.27	1	3.877	22.08	1	1.278	29.20
2	.112	248.69	.109	236.09	.093	223.31	2	.055	222.04	2	.012	162.66
3	.037	55.81	.006	106.25	.028	237.57	3	.067	285.98	3	.026	298.50
4	.022	327.03	.009	320.91	.006	241.71	4	.046	230.32	4	.015	254.94
5	.023	79.65	.016	56.64	.022	126.85	5	.023	288.42	5	.014	308.40
6	.014	354.68	.017	296.58	.007	38.59	6	.023	184.41	6	.006	156.14
7	.014	163.25	.027	204.22	.013	228.17	7	.040	131.20	7	.012	106.79
8	.017	335.18	.015	122.26	.014	148.19	8	.018	321.28	8	.007	336.56
9	.015	323.05	.020	47.84	.012	57.75	9	.010	215.17	9	.009	216.63
10	.023	306.66	.029	14.65	.021	33.84	10	.023	316.33	10	.002	307.17

*** STABILITY PARAMETERS
*
* XI = -.6235 *
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.973	117.09	1.820	120.78	9.169	191.56	2.708	171.64	7.309	234.51
2	.152	150.76	.624	151.71	1.681	302.20	.178	229.43	1.306	29.22
3	.153	277.54	.035	110.02	.335	48.13	.090	256.07	.047	236.91
4	.026	267.79	.026	303.96	.054	228.02	.052	318.71	.075	138.88
5	.052	333.01	.063	38.37	.146	73.44	.026	334.07	.173	293.31
6	.019	225.17	.014	337.19	.008	56.87	.013	20.67	.104	121.06
7	.028	43.70	.010	126.12	.049	307.96	.016	355.80	.027	25.23
8	.012	74.56	.021	224.57	.048	141.94	.020	164.87	.025	28.76
9	.012	224.09	.015	242.23	.038	158.39	.022	162.81	.025	295.68
10	.021	359.02	.010	18.65	.048	266.62	.018	92.83	.038	140.48

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 5 ALPHA-MCL = 2.0 PDP RUN.PT 3.09
RUN 3 ALPHA-PAR = 2.0 Q-COMP = .32614
POINT 5 SIGMA = 45. V-REF = 200.34
COMPUTED FREQUENCY = 19.21, K = .1506

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.959	-6.604	-6.369	-1.724	-3.830	-.706	-2.514	-.095	-1.631	.559	-1.225	1.336	-.673	1.908
2	2.367	-2.398	-.131	.096	-.141	.133	-.124	.145	-.105	.126	-.042	.119	.029	.126
3	.409	1.225	.003	-.012	.044	.034	.062	.036	.085	.013	.079	.005	.052	-.040
4	.146	.020	.043	.013	-.037	.021	-.032	.029	.015	.023	.066	-.031	.028	-.015
5	-.283	.457	-.011	-.032	-.004	-.047	-.005	-.001	.009	.059	.000	.007	-.006	-.009
6	-.097	-.335	-.013	-.001	-.059	-.006	-.083	.004	.076	.003	-.002	.015	-.075	.018
7	-.071	-.013	-.004	-.027	.042	-.047	.022	-.037	-.027	.011	.013	-.028	.014	-.002
8	.021	-.272	.044	-.024	.053	-.002	.030	-.020	.016	-.006	.057	.000	.045	-.008
9	.121	.094	-.040	-.010	-.011	-.002	.004	-.018	-.028	.013	-.017	-.010	-.016	.017
10	.048	-.048	.051	-.013	.032	.017	.033	.012	.049	.003	.040	.004	.004	.021

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.457	1.963	-.325	1.661	-.324	1.730	9.950	5.502	5.298	2.850	2.526	2.593	1.521	2.221
2	.053	.139	.046	.134	.026	.131	.872	-.578	-.393	-.570	.060	-.002	-.014	.062
3	.058	-.051	.065	-.048	.073	-.032	.033	-.213	.315	-.170	.039	-.067	.063	-.026
4	.001	-.005	.006	-.017	.011	-.018	-.109	-.077	-.198	-.185	-.029	-.037	.003	-.043
5	-.003	.023	-.013	.014	-.004	.008	-.042	.079	.047	.044	-.026	.039	-.022	.028
6	-.029	.010	-.053	.026	-.068	.024	-.122	.074	-.098	-.024	-.012	.003	.005	-.010
7	-.003	.001	-.001	.016	.004	.003	.038	.072	.013	.056	-.012	.056	-.023	.044
8	.042	.004	.040	-.001	.040	-.006	.025	.041	.040	-.001	.006	.015	.002	.005
9	-.004	.012	-.005	.028	-.007	.022	.005	.057	-.017	.048	.000	.066	-.013	.061
10	.007	.012	-.017	.023	-.002	.012	-.055	.029	-.022	.013	-.059	.006	-.035	.000

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.750	1.772	.539	2.021	.039	1.629	-.031	1.614	-.195	1.538	-.331	1.316
2	-.029	.087	-.016	.114	-.024	.158	.016	.014	.020	.076	-.053	.094
3	.051	-.034	.056	-.053	-.027	-.045	.076	-.033	.075	-.015	.052	-.029
4	-.008	-.033	-.000	-.032	-.005	.004	.023	-.054	.017	-.030	.004	-.026
5	-.016	.021	-.020	.032	-.031	.013	-.002	.017	-.000	.017	-.008	.013
6	-.015	-.007	.031	-.017	-.030	.010	.016	-.021	-.016	-.011	-.001	-.006
7	-.018	.028	-.039	.035	-.029	.023	-.031	.002	-.014	.009	-.020	.005
8	.004	.001	-.001	.008	.006	.013	.030	-.006	.024	-.008	.030	-.011
9	-.027	.045	-.019	.050	-.023	.030	-.031	.022	-.025	.008	-.021	.004
10	-.008	-.314	-.035	-.023	-.017	-.006	.007	-.020	.030	-.020	.029	-.011

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	5	ALPHA-MCL = 2.0		PDP RUN.PT	3.09
RUN	3	ALPHA-PAR = 2.0		Q-COMP =	.32614
POINT	5	SIGMA = 45.		V-REF =	200.34

COMPUTED FREQUENCY = 19.21, K = .1506

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.134	200.19	6.598	195.14	3.895	190.44	2.516	182.16	1.914	163.03	1.813	132.52	2.023	109.42
2	3.369	314.62	.163	143.83	.194	136.69	.191	130.59	.165	129.68	.126	109.53	.129	76.96
3	1.291	71.55	.013	263.65	.056	38.06	.072	30.21	.086	9.01	.079	3.79	.065	322.28
4	.147	7.80	.044	16.50	.042	149.98	.043	138.25	.028	56.84	.073	334.61	.031	331.87
5	.538	121.78	.034	250.86	.048	264.76	.006	187.31	.060	81.05	.007	87.70	.011	235.32
6	.349	253.87	.013	184.04	.059	185.59	.083	177.42	.076	2.06	.016	96.27	.077	166.54
7	.073	189.93	.027	261.81	.063	311.92	.043	299.94	.029	158.31	.031	294.07	.014	350.58
8	.274	274.45	.050	331.26	.053	358.16	.036	325.53	.017	339.26	.057	.34	.046	350.17
9	.153	37.83	.041	193.84	.012	192.05	.018	281.41	.031	155.57	.020	208.99	.023	133.98
10	.068	315.38	.054	340.32	.036	28.52	.035	19.61	.049	3.18	.041	5.09	.021	78.13

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.015	103.10	1.889	99.90	1.760	100.59	11.370	28.94	6.016	28.27	3.620	45.75	2.692	55.60
2	.149	69.15	.142	70.93	.134	78.80	1.046	326.44	.693	235.41	.060	357.93	.034	102.49
3	.077	318.63	.061	323.47	.079	336.34	.215	278.85	.358	331.56	.077	300.29	.068	337.92
4	.005	278.42	.018	289.26	.021	301.73	.133	215.34	.271	223.19	.047	231.12	.043	273.88
5	.023	96.68	.019	132.48	.009	115.24	.089	118.24	.065	42.89	.046	123.68	.036	127.76
6	.030	161.02	.059	154.44	.072	160.74	.142	148.88	.101	193.90	.012	164.75	.011	294.97
7	.004	165.99	.016	91.94	.005	29.62	.081	62.43	.057	76.81	.058	102.22	.050	118.01
8	.042	5.59	.040	357.97	.041	350.87	.048	58.64	.040	358.71	.017	70.61	.005	67.63
9	.013	107.27	.029	99.66	.023	108.35	.057	85.37	.051	109.18	.066	89.65	.063	101.60
10	.013	60.35	.025	114.23	.012	99.80	.071	156.10	.025	149.93	.059	174.51	.035	179.38

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.924	67.07	2.091	75.05	1.630	88.61	1.614	91.11	1.551	97.21	1.357	104.12
2	.092	108.23	.115	98.17	.160	98.75	.021	41.14	.079	75.49	.108	119.50
3	.061	326.35	.077	316.43	.053	239.06	.083	336.75	.076	348.49	.060	331.36
4	.033	256.86	.032	269.44	.006	143.26	.059	293.35	.035	299.56	.026	279.19
5	.026	128.37	.038	122.58	.034	157.36	.017	96.71	.017	90.76	.015	121.73
6	.016	205.17	.036	330.77	.032	162.61	.027	308.18	.019	215.01	.007	259.09
7	.034	122.46	.053	138.36	.037	142.24	.031	176.67	.017	147.35	.021	165.81
8	.004	14.14	.006	96.48	.014	66.93	.031	347.77	.026	341.58	.031	340.29
9	.053	120.67	.053	110.29	.038	127.35	.038	144.32	.026	162.97	.021	168.85
10	.016	240.73	.023	256.99	.018	200.89	.021	288.49	.036	326.73	.031	339.22

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 5 ALPHA-MCL = 2.0 PDP RUN.PT 3.09
RUN 3 ALPHA-PAR = 2.0 Q-COMP = .32614
POINT 5 SIGMA = 45. V-REF = 200.34
COMPUTED FREQUENCY = 19.21, K = .1506

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	27.909	12.106	11.667	4.573	6.357	3.299	4.035	2.316	2.580	1.213	1.765	.684	.712	-.278
2	-1.495	1.819	-.262	-.666	.201	-.135	.110	-.082	.077	-.039	.026	-.005	-.053	.032
3	-.376	-1.437	.312	-.158	-.005	-.101	.001	-.062	-.034	-.047	-.023	-.058	-.079	-.005
4	-.255	-.097	-.240	-.198	.007	-.058	.035	-.072	-.023	-.056	-.066	-.000	-.033	.018
5	.241	-.378	.058	.076	-.021	.086	-.017	.029	-.026	-.039	-.021	.025	-.025	.022
6	-.025	.409	-.085	-.023	.047	.009	.087	-.014	-.091	-.010	.033	-.033	.045	-.008
7	.109	.085	.017	.082	-.054	.103	-.045	.081	.009	.017	-.052	.063	-.044	.025
8	.004	.314	-.004	.023	-.046	.018	-.028	.025	-.012	.007	-.058	.006	-.039	.021
9	-.116	-.037	.023	.058	.012	.060	-.016	.079	.001	.033	-.001	.060	-.007	.013
10	-.114	.077	-.073	.031	-.090	-.012	-.067	-.011	-.057	-.016	-.046	-.026	-.021	-.027

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.426	-.349	.130	-.323	-.007	-.415
2	-.037	-.125	-.027	-.057	-.079	-.038
3	.018	.018	.010	.033	-.020	.003
4	.022	-.049	.011	-.013	-.007	-.008
5	.001	-.006	.013	.003	-.004	.005
6	.045	-.031	.038	-.037	.066	-.030
7	-.026	.001	-.014	-.007	-.024	.003
8	-.012	-.011	-.015	-.007	-.011	-.004
9	-.027	.010	-.020	-.021	-.014	-.018
10	.000	-.031	.041	-.043	.031	-.022

N	CNREAL	CNIMAG
1	3.534	1.442
2	-.035	-.035
3	-.007	-.084
4	-.035	-.043
5	-.002	.007
6	.019	-.004
7	-.023	.043
8	-.026	.019
9	-.009	.032
10	-.038	-.015

N	CMREAL	CMIMAG
1	1.119	.558
2	-.013	.005
3	.005	-.033
4	-.010	-.011
5	.004	-.001
6	-.006	.008
7	.002	.009
8	-.001	.007
9	.001	.007
10	-.011	.004

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.423	1.587	-.424	1.407	-8.557	-1.665	-2.148	.309	-3.720	-5.694
2	-.122	.240	-.539	.393	.751	-1.296	-.149	.033	.835	.604
3	.090	-.049	.045	.128	.308	.319	.043	-.005	.132	.046
4	-.007	-.016	-.009	.053	-.035	.001	.048	-.008	.009	-.017
5	-.031	-.000	.007	.021	-.011	.057	-.001	-.015	.000	-.167
6	-.078	.001	-.091	.002	-.072	-.024	-.065	.007	-.162	.078
7	.043	.006	.029	.005	-.010	-.009	.007	.004	.079	.033
8	.024	-.010	-.007	-.053	.049	-.033	.039	-.010	.081	.013
9	-.018	.016	-.028	.043	-.034	.044	-.011	.041	.000	.030
10	-.000	-.009	.010	.012	.049	-.059	.011	.023	-.006	.080

*** STABILITY PARAMETER

XI = -.5577

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 5 ALPHA-MCL = 2.0 PDP RUN.PT 3.09
RUN 3 ALPHA-BAR = 2.0 Q-COMP = .32614
POINT 5 SIGMA = 45. V-REF = 200.34
COMPUTED FREQUENCY = 19.21, K = .1506

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	30.422	23.45	12.531	21.40	7.162	27.43	4.653	29.85	2.851	25.18	1.893	21.20	.765	338.65
2	2.355	129.41	.716	248.53	.242	326.04	.139	323.23	.086	333.10	.026	349.78	.062	149.03
3	1.496	255.36	.349	333.11	.101	267.16	.062	271.26	.058	234.15	.063	248.38	.079	183.74
4	.273	200.87	.311	219.51	.058	277.13	.080	296.07	.060	247.80	.066	180.39	.037	150.46
5	.449	302.49	.096	52.37	.089	103.95	.034	119.58	.047	236.57	.033	129.34	.034	138.20
6	.410	93.48	.088	195.39	.048	10.69	.088	351.09	.091	186.05	.046	314.93	.045	349.31
7	.138	37.79	.084	78.41	.116	117.69	.093	118.90	.020	62.04	.082	129.42	.050	150.02
8	.314	89.36	.024	99.37	.051	159.82	.038	137.40	.014	148.61	.058	174.47	.045	152.08
9	.122	197.68	.062	67.99	.070	80.36	.081	101.56	.033	87.56	.060	90.99	.015	116.73
10	.137	145.98	.079	157.06	.091	187.28	.068	189.48	.059	196.14	.053	209.91	.034	232.01

X =	.774		.860		.910		N	CN-MAG	PHIN	N	CM-MAG	PHIM
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI						
1	.550	320.67	.348	291.99	.415	268.98	1	3.817	22.20	1	1.250	26.49
2	.130	253.51	.063	245.23	.088	205.54	2	.049	224.93	2	.014	160.45
3	.026	44.62	.034	73.92	.021	170.93	3	.084	264.93	3	.034	278.41
4	.054	294.85	.017	310.71	.011	230.44	4	.054	232.36	4	.015	228.25
5	.006	276.58	.013	12.30	.007	130.32	5	.007	105.37	5	.004	351.08
6	.054	325.67	.052	315.79	.073	335.66	6	.020	347.01	6	.010	124.13
7	.028	178.03	.015	206.64	.025	174.07	7	.049	118.72	7	.010	77.43
8	.016	221.46	.017	204.01	.011	201.45	8	.032	143.96	8	.007	95.87
9	.028	160.02	.029	226.80	.023	232.69	9	.033	104.89	9	.007	84.27
10	.031	270.19	.059	313.43	.038	323.84	10	.040	201.34	10	.012	159.34

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.643	104.93	1.469	106.76	8.718	191.01	2.171	171.82	6.801	236.84
2	.269	116.82	.667	143.93	1.498	300.10	.152	167.47	1.031	35.86
3	.103	331.37	.136	70.48	.444	46.00	.043	352.76	.140	19.24
4	.017	246.00	.054	99.30	.035	177.61	.048	350.07	.020	297.63
5	.031	180.22	.022	72.06	.058	100.64	.015	264.52	.167	270.02
6	.078	179.28	.091	178.87	.076	198.20	.066	174.06	.180	154.22
7	.043	8.25	.030	10.03	.013	221.16	.008	27.88	.086	22.43
8	.026	336.65	.053	262.85	.059	325.67	.040	346.10	.082	9.00
9	.024	138.59	.051	123.00	.056	127.22	.042	104.72	.030	89.57
10	.009	268.47	.016	52.31	.076	309.60	.025	63.90	.080	94.01

*** STABILITY PARAMETE

XI = -.5577

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 19 ALPHA-MCL = 2.0 PDP RUN.PT 6.05
RUN 6 ALPHA-PAR = 2.0 Q-COMP = .32335
POINT 1 SIGMA = 90. V-REF = 199.40
COMPUTED FREQUENCY = 9.15, K = .0721

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

N	X = .012-UPPER CPREAL	CPIMAG	.062-UPPER CPREAL	CPIMAG	.148-UPPER CPREAL	CPIMAG	.261-UPPER CPREAL	CPIMAG	.392-UPPER CPREAL	CPIMAG	.530-UPPER CPREAL	CPIMAG	.661-UPPER CPREAL	CPIMAG
1	-20.926	-6.147	-6.629	-1.215	-3.841	-.292	-2.590	.263	-2.120	.855	-1.917	1.539	-1.632	1.932
2	2.454	-3.461	-.031	-.202	-.023	-.200	-.013	-.209	-.013	-.230	.031	-.261	.103	-.222
3	.633	.859	.219	.169	.282	.257	.304	.270	.352	.285	.339	.313	.321	.252
4	.398	-.224	-.114	-.031	-.133	-.016	-.107	-.010	-.082	-.022	-.006	-.044	-.042	-.025
5	.028	.692	.041	.030	.029	.043	.031	.069	.043	.101	.027	.068	.041	.046
6	-.098	-.155	-.052	-.142	-.099	-.159	-.110	-.151	-.091	-.162	-.042	-.152	-.076	-.176
7	-.216	.309	-.008	.023	-.001	.002	-.012	.020	-.027	.058	-.004	.026	-.012	.034
8	-.194	-.104	-.004	.094	-.008	.080	-.029	.053	-.016	.068	.019	.097	.007	.073
9	-.133	-.040	-.058	-.033	-.025	-.038	-.021	-.038	-.053	-.019	-.026	-.030	-.050	-.027
10	-.012	-.295	.000	-.028	.012	-.009	.012	-.026	.007	-.033	.015	-.004	.017	-.004

N	X = .774-UPPER CPREAL	CPIMAG	.860-UPPER CPREAL	CPIMAG	.910-UPPER CPREAL	CPIMAG	.012-LOWER CPREAL	CPIMAG	.062-LOWER CPREAL	CPIMAG	.148-LOWER CPREAL	CPIMAG	.261-LOWER CPREAL	CPIMAG
1	-1.255	1.785	-.960	1.569	-.718	1.303	12.844	5.396	7.351	3.020	3.878	2.414	2.600	1.892
2	.114	-.173	.111	-.179	.094	-.206	.963	-1.363	-.026	-1.199	.039	-.275	-.032	-.163
3	.319	.251	.333	.281	.326	.285	.265	.269	.688	.318	.305	.276	.364	.288
4	-.051	-.029	-.047	-.031	-.051	-.022	.021	-.022	-.081	-.438	-.012	-.032	-.017	-.039
5	.021	.059	.024	.061	.024	.063	-.009	.028	.122	.095	.021	.021	.018	.030
6	-.067	-.154	-.072	-.162	-.081	-.157	-.156	-.153	-.096	-.336	-.118	-.163	-.108	-.153
7	-.001	.028	-.002	.030	-.001	.032	.007	.019	-.011	.058	-.016	.024	-.006	.019
8	.010	.074	.007	.066	.007	.061	.015	-.025	.061	-.035	.009	.039	.016	.054
9	-.035	-.028	-.037	-.031	-.032	-.027	-.025	.019	-.049	.004	-.030	-.012	-.046	-.032
10	.020	-.009	.025	-.007	.023	-.013	.056	.038	.061	.011	.020	.002	.006	.000

N	X = .392-LOWER CPREAL	CPIMAG	.530-LOWER CPREAL	CPIMAG	.661-LOWER CPREAL	CPIMAG	.774-LOWER CPREAL	CPIMAG	.860-LOWER CPREAL	CPIMAG	.910-LOWER CPREAL	CPIMAG
1	1.532	1.342	1.322	1.361	.609	1.003	.429	.924	-.048	.567	-.224	.723
2	-.031	-.142	-.009	-.186	-.012	-.130	.066	-.274	.200	-.213	-.104	-.441
3	.283	.245	.332	.290	.225	.227	.279	.249	.273	.356	.356	.223
4	-.057	-.023	-.076	-.014	-.110	.034	-.030	-.046	-.050	-.016	-.066	-.031
5	.023	.050	.027	.066	.008	.037	.023	.053	.018	.081	.035	.050
6	-.081	-.146	-.098	-.178	-.123	-.143	-.058	-.181	-.068	-.172	-.078	-.159
7	-.013	.020	-.020	.034	-.022	.032	-.018	.032	-.013	.038	-.013	.024
8	.002	.039	-.007	.059	-.020	.056	.012	.050	-.004	.048	.010	.062
9	-.034	-.015	-.039	-.022	-.041	-.018	-.035	-.030	-.032	-.033	-.032	-.029
10	.010	-.005	.014	-.004	-.001	-.006	.025	-.015	.016	-.006	.022	-.006

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 19 ALPHA-MCL = 2.0 PDP RUN.PT 6.05
RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32335
POINT 1 SIGMA = 90. V-REF = 199.40
COMPUTED FREQUENCY = 9.15, K = .0721

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	21.810	196.37	6.740	190.38	3.852	184.35	2.603	174.20	2.286	158.02	2.459	141.23	2.529	130.17
2	4.243	305.33	.205	261.18	.201	263.47	.210	266.40	.231	266.65	.263	276.70	.244	294.89
3	1.067	53.63	.277	37.63	.382	42.33	.406	41.61	.453	38.96	.461	42.72	.408	38.15
4	.457	330.62	.118	195.28	.134	186.93	.107	185.27	.085	194.71	.044	262.34	.049	210.13
5	.693	87.65	.050	36.13	.052	55.88	.075	65.45	.109	67.06	.073	68.10	.061	48.67
6	.184	237.75	.152	249.81	.187	238.12	.186	233.91	.186	240.79	.157	254.41	.192	246.80
7	.377	124.96	.024	108.08	.002	104.12	.024	121.01	.064	115.20	.028	97.84	.036	109.72
8	.220	208.22	.094	92.29	.081	95.48	.060	117.58	.070	102.96	.099	79.02	.073	84.22
9	.139	196.56	.067	209.95	.046	236.51	.043	240.66	.056	199.95	.040	229.26	.057	208.09
10	.296	267.60	.028	270.44	.015	322.48	.028	294.30	.033	281.93	.015	343.26	.017	344.90

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.182	125.12	1.839	121.45	1.487	118.85	13.931	22.79	7.947	22.33	4.568	31.91	3.215	36.05
2	.207	303.25	.211	301.68	.227	294.51	1.669	305.26	1.199	268.78	.278	278.10	.166	258.71
3	.406	38.25	.436	40.15	.433	41.17	.377	45.41	.758	24.83	.411	42.16	.465	38.36
4	.059	209.19	.056	213.44	.055	203.44	.031	314.04	.446	259.54	.034	249.46	.042	246.88
5	.063	70.18	.065	68.35	.068	68.95	.029	107.05	.155	37.71	.030	44.32	.035	59.29
6	.168	246.45	.177	246.11	.177	242.79	.219	224.56	.349	254.10	.201	234.06	.187	234.90
7	.028	92.98	.030	93.93	.032	92.25	.021	68.88	.059	100.42	.029	123.04	.020	108.92
8	.075	82.38	.066	83.55	.061	83.14	.029	301.94	.070	330.31	.040	76.73	.056	73.58
9	.045	218.02	.049	220.17	.042	220.15	.031	143.00	.050	175.84	.033	202.25	.056	215.27
10	.022	335.91	.026	343.41	.027	330.18	.068	34.01	.062	10.37	.020	5.96	.006	4.22

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.036	41.21	1.897	45.83	1.174	58.72	1.019	65.08	.569	94.89	.757	107.26
2	.145	257.60	.186	267.17	.131	264.58	.282	283.46	.292	313.19	.453	256.70
3	.375	40.95	.440	41.11	.320	45.26	.374	41.78	.448	52.50	.420	32.03
4	.061	201.65	.077	190.10	.115	162.81	.055	238.66	.052	197.99	.073	204.96
5	.055	65.86	.071	67.83	.036	77.40	.058	66.43	.083	77.59	.061	54.91
6	.167	240.94	.203	241.25	.189	229.45	.190	252.15	.185	248.40	.177	243.81
7	.024	122.51	.039	120.63	.039	124.55	.036	119.91	.040	108.88	.027	118.40
8	.039	87.54	.059	90.31	.060	109.94	.052	76.65	.048	94.31	.063	81.33
9	.037	204.32	.045	209.95	.045	203.99	.046	220.83	.046	225.35	.043	222.13
10	.011	331.47	.015	344.69	.006	264.10	.029	329.96	.017	339.19	.023	339.47

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 19 ALPHA-MCL = 2.0 PDP RUN.PT 6.05
RUN 6 ALPHA-PAR = 2.0 Q-COMP = .32335
POINT 1 SIGMA = 90. V-REF = 199.40
COMPUTED FREQUENCY = 9.15, K = .0721

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.770	11.543	13.981	4.234	7.719	2.706	5.190	[illegible]	3.652	.486	3.239	-.179	2.241	-.929
2	-1.491	2.099	.006	-.996	.062	-.075	-.019	[illegible]	-.018	.089	-.040	.076	-.115	.091
3	-.368	-.591	.469	.149	.023	.019	.060	.018	-.069	-.039	-.007	-.023	-.095	-.025
4	-.377	.202	.033	-.407	.121	-.016	.090	-.029	.025	-.001	-.070	.030	-.067	.058
5	-.037	-.664	.062	.065	-.008	-.022	-.013	-.038	-.020	-.051	-.001	-.002	-.032	-.009
6	-.058	.002	-.043	-.193	-.019	-.004	.002	-.002	.010	.016	-.055	-.026	-.047	.033
7	.223	-.290	-.003	.035	-.015	.022	.006	-.002	.015	-.038	-.016	.006	-.010	-.002
8	.209	.079	.065	-.129	.017	-.041	.044	.000	.017	-.029	-.019	-.038	-.028	-.017
9	.108	.058	.009	.037	-.005	.026	-.025	.005	.019	.004	-.013	.008	.009	.008
10	.058	.333	.061	.039	.008	.011	-.006	.026	.003	.027	[illegible]	.000	-.017	-.001

X =	.774		.860		.910							
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
1	1.685	-.860	.911	-1.002	.493	-.580	1	4.904	.857	1	1.271	.536
2	-.048	-.101	.089	-.034	-.198	-.234	2	-.082	-.005	2	-.011	.012
3	-.040	-.002	-.060	.075	.030	-.062	3	.004	-.017	3	.013	-.002
4	.021	-.017	-.003	.015	-.016	-.009	4	.000	-.018	4	.004	-.011
5	.002	-.006	-.006	.020	.011	-.013	5	-.004	-.032	5	.001	-.010
6	.009	-.027	.004	-.010	.003	-.002	6	-.017	-.015	6	-.002	-.005
7	-.017	.003	-.011	.007	-.012	-.008	7	.001	-.009	7	.004	-.003
8	.002	-.024	-.011	-.018	.002	.002	8	.014	-.025	8	.008	-.003
9	.001	-.002	.005	-.001	.001	-.001	9	.003	.010	9	.001	.003
10	.005	-.006	[illegible]	.001	-.001	.005	10	.005	.021	10	.003	.008

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.254	2.021	.869	1.737	-8.983	-1.157	-2.077	.526	1.188	-6.379
2	.019	-.128	-.369	.298	.787	-2.145	-.031	-.379	-.682	.857
3	.373	.371	.479	.569	.686	.561	.339	.360	.235	.369
4	-.091	-.096	-.391	.024	-.113	-.026	-.051	-.063	-.043	-.009
5	.012	.070	.066	.054	.131	.150	-.002	.036	-.111	.177
6	-.134	-.206	-.165	-.214	-.140	-.165	-.110	-.181	.005	-.158
7	-.004	.003	-.011	.003	-.041	.091	-.003	.026	.092	.000
8	.010	.047	.002	.063	-.011	.094	-.010	.066	.004	.007
9	-.042	-.020	-.074	-.032	-.121	.008	-.063	-.036	-.029	-.063
10	.039	.002	.037	.016	-.021	-.031	-.030	.024	.006	.004

*** STABILITY PARAMETER

XI = -.5359

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 19 ALPHA-MCL = 2.0 PDP RUN.PT 6.05
RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32335
POINT 1 SIGMA = 90. V-REF = 199.40
COMPUTED FREQUENCY = 9.15[illegible] K = .0721

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.688	18.87	14.606	16.95	8.180	19.32	5.439	17.43	3.684	7.58	3.244	356.84	2.426	337.48
2	2.574	125.38	.996	270.33	.097	309.51	.051	112.46	.090	101.27	.086	117.80	.147	141.63
3	.696	238.07	.492	17.66	.030	40.07	.063	17.00	.080	209.67	.024	253.88	.098	194.45
4	.427	151.80	.409	274.63	.122	352.45	.095	342.24	.025	357.78	.076	156.48	.089	139.07
5	.665	265.81	.104	38.48	.023	250.77	.041	250.72	.054	248.28	.002	256.32	.034	196.1[illegible]
6	.058	177.93	.198	257.39	.019	191.28	.003	313.59	.019	59.48	.061	205.56	.057	144.66
7	.366	307.63	.035	95.14	.027	124.55	.006	345.08	.041	290.99	.017	160.05	.010	189.14
8	.224	20.74	.144	296.69	.044	292.39	.044	.56	.034	301.17	.042	243.16	.032	210.91
9	.123	28.29	.038	76.93	.026	100.63	.025	168.17	.019	11.49	.015	147.14	.012	43.59
10	.340	78.40	.072	32.41	.014	53.48	.027	102.18	.027	83.58	.000	100.24	.017	183.75

X =	.774		.960		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.892	332.94	1.355	312.27	.761	310.37
2	.112	244.61	.096	339.26	.307	229.77
3	.040	183.09	.096	128.89	.069	295.92
4	.027	321.64	.015	161.09	.018	209.63
5	.006	288.63	.021	107.29	.017	338.32
6	.028	288.26	.010	291.30	.003	330.68
7	.017	169.19	.013	145.43	.014	214.01
8	.024	275.06	.021	238.73	.003	36.93
9	.003	281.46	.005	343.46	.001	307.32
10	.008	313.14	.009	171.74	.005	134.03

N	CN-MAG	PHIN
1	4.979	9.91
2	.082	183.73
3	.018	283.60
4	.018	270.79
5	.032	262.93
6	.022	220.37
7	.009	276.79
8	[illegible]	299.64
9	.010	74.59
10	.021	77.28

N	CM-MAG	PHIM
1	1.379	22.87
2	.016	132.03
3	.013	351.74
4	[illegible]	291.00
5	[illegible]	276.88
6	.006	250.44
7	.005	326.06
8	.009	338.10
9	.003	71.92
10	.008	65.94

*** STABILITY PARAMETER

* XI = -.5359 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.379	58.17	1.942	63.40	9.058	187.34	2.143	165.79	6.489	280.55
2	.130	278.63	.474	141.07	2.285	290.15	.380	265.40	1.095	128.54
3	.525	44.85	.743	49.93	.866	39.27	.495	46.70	.437	57.48
4	.134	227.08	.094	165.14	.116	193.17	.088	225.89	.044	192.06
5	.071	80.32	.086	39.29	.199	48.90	.036	93.26	.209	122.11
6	.256	237.03	.270	232.32	.217	229.81	.212	238.68	.158	271.87
7	.005	143.29	.012	163.39	.100	113.96	.026	97.48	.092	.05
8	.048	78.46	.060	87.83	.094	96.52	.067	99.03	.008	58.97
9	.046	205.97	.080	203.37	.122	176.09	.073	209.55	.070	245.72
10	.040	3.44	.041	22.89	.038	235.48	.038	142.13	.007	36.95

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 21 ALPHA-MCL = 2.0 PDP RUN.PT 6.07
RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32585
POINT 3 SIGMA = 90. V-REF = 200.18
COMPUTED FREQUENCY = 15.57, K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530 UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-21.021	-5.596	-6.745	-1.314	-3.939	-.525	-2.677	-.066	-2.236	.451	-2.025	1.097	-1.713	1.506
2	2.452	-3.283	.199	.172	.195	.178	.194	.173	.204	.176	.242	.159	.302	.176
3	.627	.691	-.030	-.020	.025	.040	.036	.045	.053	.036	.028	.034	-.012	-.020
4	.647	-.076	.110	.062	.072	.081	.084	.086	.119	.066	.169	.018	.125	.039
5	.064	.706	.053	-.033	.060	-.024	.077	.007	.122	.030	.110	-.003	.107	.001
6	-.139	-.047	.019	-.007	-.027	-.011	-.034	.004	-.005	.005	.027	-.021	.003	-.020
7	-.136	.203	-.007	-.042	-.001	-.062	-.006	-.043	.007	-.025	.025	-.040	.010	-.020
8	-.296	-.099	-.019	.036	-.018	-.021	-.042	-.015	-.048	.029	-.011	-.020	-.006	-.018
9	.047	-.024	-.009	.030	.006	.005	-.006	-.008	.011	.036	-.001	.017	-.010	.012
10	-.001	-.198	.008	.004	.015	.014	-.002	-.009	-.006	-.012	.004	.000	.004	.001

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.352	1.371	-1.076	1.186	-.844	.977	12.883	4.691	7.071	2.303	3.784	2.125	2.452	1.682
2	.310	.213	.315	.217	.310	.194	1.056	-1.082	-.140	-.536	.255	.093	.210	.208
3	.003	-.015	.014	-.002	.004	.002	-.095	-.036	.257	-.078	-.001	.035	.049	.018
4	.113	.034	.124	.037	.121	.022	.075	.005	-.136	-.169	.117	-.019	.142	-.024
5	.102	.021	.107	.029	.110	.030	.083	-.004	.167	-.018	.061	-.009	.044	-.029
6	.010	-.009	.002	-.014	.002	-.013	-.027	-.055	-.092	-.102	-.010	-.027	.005	-.032
7	.026	-.024	.022	-.017	.011	-.013	.014	.005	.027	.010	-.000	-.015	-.002	-.040
8	-.006	-.016	-.004	-.019	-.005	-.028	-.001	-.044	-.022	-.057	.006	.011	-.007	.016
9	-.004	.009	-.010	.017	-.011	.008	-.024	-.020	-.004	.014	.003	-.004	.004	.006
10	.006	-.006	.009	-.007	.003	-.006	.017	.008	.015	-.026	.022	-.020	.030	-.022

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.419	1.196	1.176	1.199	.485	.890	.279	.783	-.261	.545	-.323	.628
2	.186	.202	.252	.237	.227	.240	.273	.128	.323	.075	.072	.144
3	.005	.007	-.004	-.004	-.082	-.003	-.034	-.017	.032	.014	-.017	-.039
4	.085	.003	.114	.024	.096	.070	.137	-.020	.127	.011	.119	.014
5	.071	.029	.095	.042	.056	.042	.085	-.054	.101	.053	.083	.055
6	.004	-.024	.007	-.029	-.006	.009	.014	-.047	-.005	-.019	.006	-.032
7	-.010	-.024	-.012	-.038	-.014	-.016	-.003	-.025	-.007	-.028	.002	-.022
8	-.006	.017	-.006	.046	.001	.024	.001	.006	-.006	.000	-.005	.004
9	.002	.005	.015	.008	-.005	.004	-.003	-.001	.003	.001	-.004	.001
10	.007	-.013	.012	-.014	.011	.001	.020	-.015	.004	-.007	.007	-.009

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 21 ALPHA-MCL = 2.0 PDP RUN.PT 6.07
RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32585
POINT 3 SIGMA = 90. V-REF = 200.18
COMPUTED FREQUENCY = 15.57, K = .1222

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	21.753	194.91	6.872	191.03	3.974	187.59	2.678	181.42	2.281	168.60	2.303	151.56	2.281	138.67
2	4.093	306.76	.263	40.71	.264	42.43	.261	41.75	.269	40.79	.290	33.24	.349	30.29
3	.933	47.81	.036	213.58	.047	57.51	.058	51.89	.064	34.38	.044	50.92	.023	238.14
4	.651	353.29	.126	29.56	.108	48.41	.120	45.89	.136	29.00	.170	6.07	.131	17.39
5	.709	84.80	.062	328.08	.065	338.27	.078	5.25	.126	13.82	.110	358.68	.107	.33
6	.146	198.63	.020	340.47	.029	202.72	.034	173.29	.007	136.34	.034	321.37	.020	278.69
7	.245	123.74	.043	260.50	.062	268.63	.043	262.58	.026	285.41	.047	302.36	.022	297.81
8	.312	198.56	.020	163.27	.028	228.66	.044	199.53	.056	149.34	.023	241.65	.019	253.09
9	.053	332.87	.031	106.69	.010	28.92	.010	232.58	.037	73.35	.017	92.45	.016	129.61
10	.198	269.69	.009	24.93	.021	44.00	.009	256.67	.014	234.87	.004	6.20	.004	8.18

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.926	134.60	1.602	132.21	1.291	130.81	13.710	20.01	7.436	18.04	4.340	29.32	2.974	34.45
2	.376	34.44	.382	34.57	.360	30.[illegible]	1.512	314.31	.554	255.34	.272	20.00	.295	44.78
3	.015	282.45	.014	350.75	.004	23.13	.102	200.93	.268	343.18	.035	91.66	.052	20.13
4	.118	16.74	.130	16.62	.123	10.41	.075	3.59	.217	231.05	.118	350.80	.144	350.50
5	.105	11.65	.111	15.42	.114	15.42	.084	357.22	.168	353.79	.061	351.97	.053	33.58
6	.013	317.15	.014	279.64	.013	277.33	.061	244.18	.138	228.06	.029	249.24	.032	279.41
7	.035	318.00	.028	322.02	.017	309.16	.015	19.16	.029	21.35	.015	268.24	.041	267.03
8	.017	248.89	.019	256.52	.029	260.91	.044	269.14	.061	249.08	.012	63.12	.018	112.03
9	.010	114.46	.020	119.52	.013	143.60	.031	219.64	.014	107.13	.005	311.66	.007	60.68
10	.008	311.56	.011	322.00	.006	297.42	.019	26.26	.030	300.46	.030	318.57	.037	323.06

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.856	40.11	1.679	45.55	1.013	61.39	.832	70.39	.605	115.61	.706	117.25
2	.275	47.36	.346	43.25	.330	46.64	.302	25.04	.332	13.07	.161	63.57
3	.009	57.68	.005	228.24	.082	181.90	.038	206.00	.035	23.29	.043	247.14
4	.085	2.02	.116	12.01	.119	36.10	.130	351.63	.128	4.83	.120	6.60
5	.077	21.91	.104	23.81	.070	37.12	.100	32.52	.114	27.47	.100	33.81
6	.025	279.01	.029	275.75	.011	120.54	.049	286.42	.020	254.28	.032	281.24
7	.026	248.19	.040	252.52	.021	229.89	.025	263.82	.029	254.90	.022	275.47
8	.018	109.53	.047	100.64	.024	86.50	.006	77.99	.006	176.30	.006	136.23
9	.006	68.16	.017	29.14	.006	139.19	.003	193.60	.003	8.93	.004	166.63
10	.015	297.84	.019	311.75	.011	6.98	.025	323.73	.008	301.69	.011	308.14

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 21 ALPHA-MCL = 2.0 PDP RUN.PT 6.07
RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32585
POINT 3 SIGMA = 90. V-REF = 200.18
COMPUTED FREQUENCY = 15.57, K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.904	10.287	13.816	3.617	7.723	2.650	5.129	1.749	3.655	.745	3.201	.102	2.198	-.616
2	-1.396	2.201	-.340	-.708	.061	-.085	.015	.035	-.017	.027	.010	.078	-.075	.064
3	-.721	-.728	.287	-.058	-.026	-.005	.014	-.027	-.048	-.029	-.031	-.038	-.070	.017
4	-.572	.081	-.246	-.231	.045	-.100	.058	-.110	-.034	-.063	-.056	.006	-.028	.031
5	.019	-.710	.114	.015	.001	.015	-.034	.022	-.051	-.001	-.014	.045	-.051	.042
6	.112	-.008	-.111	-.096	.017	-.016	.039	-.036	.009	-.029	-.024	-.008	-.009	.029
7	.150	-.198	.034	.053	.001	.048	.003	.002	-.017	.001	-.037	.002	-.024	.004
8	.295	.055	-.003	-.063	.024	.032	.035	.031	.042	-.012	.002	.066	.007	.042
9	-.071	.005	.005	-.016	-.005	-.008	.010	.014	-.009	-.030	.016	-.009	.005	-.008
10	.018	.206	.007	-.029	.008	-.034	.032	-.014	.015	-.001	.039	-.014	.007	.001

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.631	-.588	.815	-.641	.520	-.349
2	-.037	-.085	.008	-.142	-.238	-.041
3	-.038	-.002	.019	.016	-.021	-.041
4	.024	-.054	.003	-.026	-.001	-.008
5	-.018	.033	-.005	.023	-.027	.025
6	.004	-.038	-.008	-.005	.005	-.018
7	-.029	-.001	-.030	-.010	-.009	-.009
8	.008	.022	-.002	.019	-.000	.033
9	.001	-.009	.012	-.017	.006	-.007
10	.015	-.009	-.005	-.000	.004	-.003

N	CNREAL	CNIMAG
1	4.872	.965
2	-.093	.017
3	-.028	-.040
4	-.036	-.049
5	-.015	.001
6	-.000	-.020
7	-.008	.002
8	.023	.023
9	.002	-.009
10	.011	-.004

N	CMREAL	CMIMAG
1	1.269	.473
2	-.017	.015
3	-.000	-.013
4	-.013	-.012
5	.005	-.012
6	.000	-.004
7	.005	.001
8	.007	-.003
9	-.002	.000
10	.001	.001

*** STABILITY PARAMETER

*
* XI = -.4735 *
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.064	1.599	.710	1.356	-9.067	-1.249	-2.169	.140	1.270	-5.886
2	.313	.391	.003	.766	.927	-1.613	.218	.132	-.487	1.279
3	.010	.077	.050	.188	.337	.265	-.044	.058	-.034	.036
4	.134	.014	.136	.066	.214	.086	.145	.004	.245	.050
5	.111	-.002	.097	.023	.151	.101	.054	.015	-.038	.153
6	.003	-.034	.029	-.043	-.056	.004	-.001	-.079	.132	-.050
7	-.001	-.028	.016	-.050	-.029	-.023	-.003	-.058	.021	-.057
8	-.026	-.012	.004	.025	-.034	-.012	-.040	.001	.007	-.085
9	-.012	.012	-.011	.007	-.016	.042	.006	.038	-.009	.041
10	.012	-.035	.020	-.045	-.020	.008	.010	-.011	-.026	-.010

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 21 ALPHA-MCL = 2.0 PPP RUN.PT 6.07
RUN 6 ALPHA-RAP = 2.0 Q-COMP = .32585
POINT 3 SIGMA = 90. V-REF = 200.16
COMPUTED FREQUENCY = 15.57, K = .1222

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.430	16.88	14.287	14.67	8.165	18.94	5.419	18.83	3.730	11.51	3.202	1.83	2.283	344.33
2	2.607	122.39	.795	244.37	.104	305.51	.038	66.13	.032	122.97	.079	83.03	.099	139.64
3	1.025	225.24	.292	348.60	.027	199.77	.030	296.67	.056	210.88	.049	230.62	.072	166.22
4	.577	171.95	.338	223.16	.110	294.12	.124	297.74	.071	241.58	.056	173.67	.042	132.21
5	.710	271.55	.115	7.37	.015	86.62	.040	146.89	.051	181.53	.047	107.79	.066	140.87
6	.112	355.70	.147	220.74	.023	316.42	.053	317.91	.031	287.31	.025	198.15	.030	106.35
7	.249	307.12	.063	57.34	.048	88.75	.004	35.33	.017	178.25	.037	176.95	.024	171.26
8	.301	10.57	.063	267.33	.040	53.07	.047	41.40	.044	344.41	.066	88.19	.043	80.62
9	.071	176.13	.017	286.32	.010	236.53	.017	56.11	.032	254.30	.018	330.52	.009	303.06
10	.207	85.05	.030	283.50	.035	282.48	.035	337.00	.015	354.34	.017	301.95	.007	6.23

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.734	340.18	1.037	321.81	.627	326.13
2	.093	246.52	.142	273.27	.242	189.68
3	.038	183.24	.025	41.03	.046	243.30
4	.059	294.00	.026	277.09	.008	260.96
5	.037	118.43	.024	103.16	.037	136.75
6	.038	276.08	.009	215.19	.019	284.01
7	.029	182.28	.031	199.33	.012	225.48
8	.024	71.28	.017	95.46	.033	90.01
9	.009	278.74	.022	308.06	.009	313.25
10	.017	329.68	.005	180.27	.005	322.37

N	CN-MAG	PHIN
1	4.967	11.20
2	.095	169.64
3	.049	235.54
4	.061	233.42
5	.015	175.02
6	.020	269.19
7	.008	166.06
8	.033	45.03
9	.009	281.58
10	.012	340.74

N	CM-MAG	PHIM
1	1.354	20.46
2	.023	138.96
3	.013	268.37
4	.018	222.21
5	.013	291.00
6	.004	275.07
7	.006	9.06
8	.007	338.72
9	.002	170.28
10	.002	37.56

*** STABILITY PARAMETER

```
*                *
* XI =   -.4735  *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.920	56.36	1.531	62.37	9.153	187.84	2.174	176.30	6.963	280.51
2	.501	51.28	.766	89.78	1.860	299.89	.255	31.15	1.369	110.85
3	.078	82.59	.195	75.28	.428	38.17	.073	126.75	.049	133.55
4	.135	5.81	.151	26.07	.230	21.97	.145	1.76	.250	11.50
5	.111	358.94	.100	13.03	.182	33.96	.056	15.28	.158	104.03
6	.034	275.01	.052	304.01	.057	175.97	.029	268.19	.141	339.27
7	.025	268.62	.353	287.94	.037	217.68	.058	266.64	.061	290.09
8	.023	204.46	.025	81.60	.036	199.47	.040	178.29	.085	274.72
9	.017	134.23	.013	148.52	.045	110.34	.038	80.29	.042	102.68
10	.037	288.45	.049	293.92	.021	158.55	.015	312.77	.028	200.66

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 23 ALPHA-MCL = 2.0 PDP RUN.PT 6.09
RUN 6 ALPHA-PAR = 2.0 Q-COMP = .32940
POINT 5 SIGMA = 90. V-REF = 201.28
COMPUTED FREQUENCY = 19.21 K = .1499

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-21.147	-4.982	-6.966	-.899	-4.137	-.165	-2.843	.284	-2.395	.805	-2.198	1.478	-1.848	1.895
2	2.156	-3.294	-.047	.179	-.056	.197	-.055	.191	-.070	.191	-.059	.16[illegible]	.006	.191
3	.460	.615	-.166	-.103	-.098	-.036	-.068	-.029	-.060	-.044	-.075	-.0[illegible]	-.122	-.085
4	.631	-.160	.098	-.003	.050	.018	.057	.027	.092	.018	.133	-.0[illegible]	.106	-.015
5	.060	.605	-.003	.005	-.008	-.003	.002	.020	.022	.046	.038	.005	.003	-.015
6	-.103	-.002	-.002	.022	-.046	.021	-.052	.033	.033	.024	-.001	-.005	-.046	-.010
7	-.232	.217	-.014	-.019	-.006	-.033	-.009	-.011	.007	.019	.013	-.005	-.005	.008
8	-.313	-.319	.012	-.018	.013	-.012	-.023	-.003	-.020	.012	.018	-.005	-.009	-.006
9	.032	-.179	.008	-.077	.027	-.082	.021	-.073	.038	-.044	.050	-.052	.039	-.026
10	.063	-.312	.077	-.034	.081	-.003	.046	-.006	.053	.022	.065	-.001	.007	-.008

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.479	1.720	-1.239	1.608	-1.014	1.423	12.953	5.049	6.863	2.659	3.688	2.616	2.373	2.203
2	.024	.204	.025	.216	.020	.197	.821	-1.075	-.424	-.316	.019	.110	-.042	.228
3	-.103	-.062	-.098	-.076	-.097	-.064	-.140	-.034	.140	-.147	-.081	.004	-.049	.002
4	.096	-.009	.100	-.011	.134	-.019	-.032	-.087	-.195	-.116	.066	-.091	.093	-.075
5	-.002	.012	-.007	.000	.006	-.003	-.038	-.041	.064	-.059	-.038	-.007	-.033	.018
6	-.020	-.005	-.039	-.012	-.046	-.013	-.051	-.047	-.114	-.047	-.005	-.036	.030	-.043
7	-.002	.008	-.006	.021	-.002	.010	.024	.091	.047	.051	-.009	.057	-.022	.020
8	-.006	-.007	-.024	-.011	-.019	-.009	-.017	.032	-.044	-.006	-.027	-.015	-.036	-.021
9	.043	-.036	.039	-.014	.034	-.026	.002	.077	.018	.039	-.033	.027	.001	.020
10	.011	-.007	-.008	-.010	.005	-.011	-.074	.050	-.057	-.002	-.065	-.016	-.052	-.028

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.289	1.688	1.016	1.604	.325	1.447	.078	1.333	-.217	1.251	-.512	1.170
2	-.032	.211	-.021	.239	-.012	.238	-.010	.116	-.090	.156	-.170	.197
3	-.087	-.034	-.120	-.054	-.186	-.026	-.144	-.064	-.138	-.070	-.132	-.076
4	.057	-.039	.088	-.022	.092	.026	.106	-.065	.096	-.037	.087	-.009
5	-.009	.016	-.016	.026	-.035	.024	-.003	.010	-.006	.012	-.009	.014
6	.010	-.028	.059	-.035	.006	-.000	.016	-.053	.006	-.039	-.004	-.024
7	-.010	.015	-.013	.014	-.019	.016	-.003	-.002	-.001	-.004	.001	-.007
8	-.030	-.016	-.047	-.027	-.017	-.015	-.020	-.037	-.018	-.032	-.016	-.026
9	.008	-.003	.015	-.014	.002	-.013	.023	-.028	.024	-.032	.026	-.035
10	-.019	-.018	-.00[illegible]	-.015	.002	-.017	.023	-.022	.030	-.021	.038	-.019

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 23 ALPHA-MCL = 2.0 POP RUN.PT 6.09
RUN 6 ALPHA-BAR = 2.0 Q-COMP = .32940
POINT 5 SIGMA = 90. V-REF = 201.28
COMPUTED FREQUENCY = 19.21, K = .1499

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	21.726	193.26	7.024	187.35	4.141	182.29	2.858	134.29	2.527	161.43	2.649	146.09	2.647	134.27
2	3.937	303.23	.185	104.62	.205	106.00	.199	106.00	.204	110.08	.178	109.22	.191	88.19
3	.768	53.20	.196	211.79	.104	200.15	.074	202.66	.074	216.42	.082	204.29	.148	214.88
4	.651	345.78	.098	358.22	.053	20.36	.063	24.89	.093	10.93	.139	342.60	.108	352.10
5	.807	85.74	.006	120.17	.009	202.44	.020	85.04	.051	64.16	.010	32.26	.016	281.73
6	.103	181.28	.022	94.45	.050	154.99	.062	148.11	.041	36.64	.005	254.31	.047	192.59
7	.317	136.98	.025	233.54	.034	259.82	.014	228.06	.020	69.78	.014	338.35	.010	121.30
8	.447	225.48	.022	305.95	.016	323.17	.023	186.64	.023	149.58	.019	346.07	.010	213.74
9	.182	280.10	.077	276.06	.086	288.08	.076	286.06	.058	310.91	.072	313.87	.046	326.31
10	.319	281.47	.064	336.38	.081	357.77	.047	352.59	.058	23.00	.065	359.39	.011	311.49

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.268	130.69	2.029	127.60	1.747	125.48	13.902	21.30	7.361	21.18	4.522	35.35	3.238	42.86
2	.205	83.22	.217	83.26	.194	83.99	1.352	307.36	.529	216.71	.112	80.36	.232	100.50
3	.132	218.47	.124	217.57	.116	213.43	[illegible]	193.72	.203	313.47	.061	177.18	.049	178.14
4	.087	354.36	.101	353.55	.106	349.77	[illegible]	249.61	.227	210.85	.112	305.71	.119	321.27
5	.012	97.62	.003	175.82	.007	334.45	.056	227.58	.007	317.35	.039	190.96	.037	150.86
6	.021	192.81	.040	197.13	.050	195.16	.069	222.93	.124	202.47	.036	262.28	.053	305.23
7	.008	106.73	.022	105.92	.011	98.35	.094	75.07	.069	47.53	.058	99.09	.029	137.91
8	.010	228.72	.026	204.31	.021	205.72	.036	118.06	.044	187.65	.031	208.40	.042	210.15
9	.056	320.02	.041	340.23	.043	322.14	.077	88.73	[illegible]	65.14	.027	97.01	.020	87.52
10	.013	326.87	.013	231.54	.012	296.17	.089	145.76	.037	182.38	.067	193.60	.059	208.21

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.124	52.62	2.070	60.59	1.483	77.35	1.335	86.65	1.270	99.83	1.277	113.63
2	.213	98.57	.240	95.00	.238	92.98	.117	94.80	.180	119.82	.260	130.78
3	.094	201.46	.132	204.31	.187	188.03	.157	203.88	.155	206.88	.153	209.96
4	.069	325.62	.091	345.80	.095	15.68	.124	328.37	.103	338.90	.088	353.87
5	.019	120.13	.033	118.79	.042	146.07	.010	106.49	.013	116.95	.017	123.34
6	.030	288.70	.061	324.69	.006	356.86	.055	286.90	.039	279.12	.025	261.52
7	.016	123.53	.019	133.83	.024	139.21	.003	209.57	.004	255.63	.007	277.50
8	.034	208.02	.048	213.66	.022	221.38	.043	241.75	.036	240.19	.030	238.00
9	.008	337.83	.021	318.49	.013	280.80	.036	309.42	.040	307.44	.044	305.82
10	.027	223.80	.017	242.15	.017	275.61	.031	316.03	.036	325.59	.042	332.65

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 23 ALPHA-MCL = 2.0 PDP RUN.PT 6.09
RUN 6 ALPHA-PAR = 2.0 Q-COMP = .32940
POINT 5 SIGMA = 90. V-REF = 201.28
COMPUTED FREQUENCY = 19.21, K = .1499

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	34.100	10.331	13.930	3.558	7.626	2.782	5.217	1.918	3.685	.883	3.215	.326	2.172	-.449
2	-1.337	2.219	-.377	-.495	.075	-.067	.012	.037	.038	.020	.038	.071	-.018	.047
3	-.599	-.649	.306	-.044	.017	.040	.019	.030	-.028	.010	-.045	-.021	-.064	.059
4	-.663	.073	-.292	-.113	.016	-.110	.036	-.101	-.034	-.057	-.045	.019	-.015	.041
5	-.098	-.846	.067	-.064	-.030	-.004	-.034	-.002	-.032	-.030	-.024	.023	-.038	.039
6	.052	-.345	-.113	-.069	.041	-.057	.083	-.076	-.023	-.053	.051	-.031	.052	.010
7	.256	-.125	.060	.070	-.003	.090	-.012	.030	-.017	-.004	-.026	.019	-.014	.008
8	.296	.350	-.057	.012	-.040	-.005	-.014	-.018	-.010	-.028	-.059	-.022	-.008	-.009
9	-.030	.257	.010	.116	-.030	.109	-.020	.094	-.030	.040	-.035	.036	-.036	.013
10	-.137	.363	-.134	.031	-.146	-.013	-.098	-.022	-.072	-.041	-.073	-.015	-.006	-.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.557	-.367	1.021	-.356	.502	-.253
2	-.034	-.087	-.115	-.059	-.190	.004
3	-.040	.018	-.040	.006	-.035	-.012
4	.019	-.056	-.004	-.026	-.017	.009
5	-.001	-.002	-.007	.012	-.015	.017
6	.036	-.048	.044	-.027	.044	-.011
7	-.001	-.010	.005	-.026	.002	-.017
8	-.014	-.030	.006	-.021	.003	-.016
9	-.020	.009	-.015	-.018	-.038	-.009
10	.012	-.015	.038	-.011	.032	-.009

N	CNREAL	CNIMAG
1	4.905	1.101
2	-.076	.036
3	-.020	-.008
4	-.047	-.035
5	-.020	-.025
6	.029	-.039
7	.003	.013
8	-.012	-.005
9	-.023	.050
10	-.055	-.002

N	CMREAL	CMIMAG
1	1.279	.461
2	-.017	.019
3	.006	-.010
4	-.017	-.009
5	-.000	-.017
6	-.004	-.006
7	.005	.005
8	.001	.007
9	-.000	.015
10	-.017	.006

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.835	2.266	.439	2.069	-9.260	-.679	-2.403	.598	.957	-.580
2	.002	.358	-.332	.747	.574	-1.624	-.121	.144	-.733	1.267
3	-.126	-.022	-.126	.141	.229	.084	-.084	-.010	-.104	-.029
4	.057	-.095	.053	-.066	.191	.011	.105	-.049	.137	-.013
5	-.013	-.002	-.008	.029	.037	.124	-.062	-.004	-.102	.098
6	-.039	-.013	-.021	-.009	-.090	.044	-.036	.003	.054	-.028
7	-.009	.029	.022	.016	-.062	.062	-.008	.022	.013	.024
8	-.006	-.002	.003	-.043	-.053	-.075	-.027	-.014	-.017	-.032
9	.007	.032	.037	-.011	.026	-.079	.046	-.039	.025	-.018
10	.004	-.028	.016	-.029	.073	-.053	.027	.005	-.002	.032

*** STABILITY PARAMETER

XI = -.4610

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

DCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 23 ALPHA-MCL = 2.0 PDP RUN.PT 6.09
RUN 6 ALPHA-BAR = 2.0 C-COMP = .32940
POINT 5 SIGMA = 90. V-REF = 201.28
COMPUTED FREQUENCY = 19.21, K = .1499

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.545	11.39	14.280	14.43	8.305	19.57	5.558	20.19	3.789	13.47	3.231	5.78	2.218	348.33
2	2.591	121.07	.627	232.71	.115	310.90	.039	71.68	.043	27.13	.080	61.86	.050	111.53
3	.883	227.27	.309	351.90	.043	67.22	.036	57.33	.029	160.52	.050	234.34	.087	137.38
4	.667	173.70	.314	201.15	.111	273.24	.107	289.46	.066	238.98	.049	156.62	.043	109.84
5	.852	263.41	.093	316.28	.030	187.55	.034	183.31	.044	223.14	.033	136.10	.055	134.42
6	.069	319.11	.132	211.49	.070	305.59	.112	317.61	.058	246.31	.060	329.14	.053	10.80
7	.285	333.94	.092	49.05	.090	91.98	.032	111.97	.017	194.32	.033	144.04	.016	150.10
8	.459	49.76	.058	168.02	.040	136.94	.023	233.76	.030	249.95	.063	209.84	.012	227.99
9	.256	96.72	.117	65.03	.113	175.47	.096	102.19	.050	126.60	.052	132.03	.038	160.40
10	.396	110.73	.137	155.80	.147	194.94	.101	192.50	.083	209.53	.074	191.41	.010	237.00

X =	.774		.860		.915	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.604	346.04	1.062	340.77	.562	333.28
2	.094	243.71	.129	207.20	.190	178.94
3	.044	155.47	.040	172.06	.036	199.15
4	.060	238.90	.026	261.83	.020	150.99
5	.002	234.33	.012	104.37	.023	132.19
6	.060	306.97	.051	328.55	.046	345.69
7	.010	266.75	.026	261.23	.017	278.02
8	.033	245.55	.027	255.83	.017	281.19
9	.022	157.54	.023	230.29	.012	227.89
10	.019	308.81	.039	344.51	.033	345.08

N	CN-MAG	PHIN
1	5.027	12.65
2	.085	154.53
3	.022	202.19
4	.059	217.14
5	.032	231.91
6	.048	306.41
7	.013	76.70
8	.013	202.11
9	.055	114.39
10	.055	182.24

N	CM-MAG	PHIM
1	1.359	19.83
2	.025	132.57
3	.011	300.01
4	.019	208.70
5	.017	268.47
6	.007	235.89
7	.007	46.32
8	.007	78.84
9	.015	90.99
10	.018	161.13

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.415	69.76	2.114	78.03	9.285	184.20	2.476	166.03	6.649	278.27
2	.358	69.60	.816	113.93	1.722	289.46	.186	129.95	1.463	120.07
3	.128	189.71	.190	131.84	.243	20.11	.085	186.71	.107	195.57
4	.111	301.14	.085	308.56	.191	3.32	.116	335.11	.187	356.13
5	.013	167.65	.030	104.80	.129	73.24	.062	183.90	.142	136.21
6	.041	[illegible]	.022	202.13	.100	154.03	.036	175.75	.061	332.73
7	.030	[illegible]	.027	36.66	.088	135.10	.024	110.77	.027	60.75
8	.006	[illegible]	.040	274.54	.092	234.63	.030	206.61	.036	241.79
9	.007	[illegible]	.039	343.11	.083	288.16	.060	319.48	.031	323.86
10	.023	[illegible]	.034	299.03	.090	324.03	.027	11.25	.032	93.77

*** STABILITY PARAMETER

* XI = -.4610 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 25 ALPHA-MCL = 2.0 PDP RUN.PT 7.04
RUN 7 ALPHA-EAR = 2.0 Q-COMP = .32820
POINT 1 SIGMA = 135. V-REF = 200.93
COMPUTED FREQUENCY = 9.16, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.861	-3.659	-7.524	-.566	-4.391	-.015	-3.123	.334	-2.808	.754	-2.939	1.245	-2.883	1.518
2	1.466	-4.560	-.131	-.035	-.135	-.025	-.123	-.024	-.155	-.054	-.150	-.110	-.110	-.026
3	.519	.290	-.098	-.036	.002	.023	.016	.033	.035	.033	-.031	.049	-.045	-.001
4	.594	-.698	.062	-.048	.045	-.036	.062	-.048	.074	-.067	.113	-.118	.063	-.085
5	.457	.497	-.019	-.010	-.003	.015	.020	.034	.048	.049	.014	.019	.012	.026
6	.057	-.135	.028	-.049	.007	-.020	.013	-.006	.038	-.030	.068	-.033	.054	-.024
7	.177	.363	.019	-.019	.011	-.008	.029	.009	.049	.036	.030	-.005	.026	.004
8	-.239	.057	.019	.003	.000	-.003	-.006	.005	.016	-.020	.039	-.036	.030	-.036
9	.022	.228	-.002	-.003	-.011	-.040	-.009	-.025	.006	.004	-.011	-.020	.000	-.022
10	-.240	-.038	.009	-.022	.000	-.020	-.022	-.010	-.009	-.016	.013	-.029	.009	-.025

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.348	1.403	-1.821	1.232	-1.421	1.099	15.899	3.730	8.981	2.000	4.665	1.878	3.251	1.561
2	-.099	.036	-.094	.037	-.089	.020	.614	-1.826	-.347	-.805	-.067	.017	-.119	.116
3	-.029	.023	-.023	.016	-.026	.022	-.085	.019	.491	-.162	.064	.060	.039	.039
4	.077	-.083	.077	-.084	.080	-.090	.033	-.048	-.179	-.326	.099	-.125	.076	-.091
5	.013	.023	.021	.028	.025	.029	.029	.090	.185	-.048	-.018	.022	.012	.051
6	.044	-.022	.045	-.026	.038	-.030	.040	-.061	-.089	-.129	.013	-.038	.043	-.057
7	.028	.002	.030	.000	.023	-.003	.035	.057	.116	.027	.029	.036	.009	.013
8	.033	-.034	.032	-.034	.031	-.037	.072	-.081	.008	-.067	.049	-.036	.040	-.027
9	-.028	-.031	-.007	-.032	-.006	-.024	-.050	-.079	-.001	-.044	-.022	-.044	-.018	-.047
10	.005	-.017	.005	-.017	.002	-.021	-.046	-.022	-.044	-.044	-.015	-.014	-.027	-.017

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.890	1.157	1.560	1.222	.695	.954	.428	.921	-.078	.383	-.278	.663
2	-.103	.092	-.113	.087	-.099	.088	-.105	-.029	.113	-.101	-.434	-.170
3	-.011	.016	-.032	.006	-.102	-.002	-.068	-.006	-.001	.069	-.001	-.047
4	.058	-.057	.060	-.067	.069	-.024	.088	-.139	.087	-.118	.034	-.090
5	.016	.047	.027	.044	-.024	.032	.001	.033	.036	.039	-.003	.015
6	.027	-.037	.018	-.036	.013	.000	.028	-.074	.019	-.042	.024	-.031
7	.025	.020	.031	.026	.011	.013	.026	.008	.033	.012	.013	.003
8	.035	-.029	.044	-.034	.027	-.007	.041	-.049	.032	-.035	.029	-.030
9	-.009	-.009	-.014	-.039	-.019	-.043	-.012	-.038	-.005	-.035	-.014	-.030
10	-.018	-.018	-.011	-.017	-.014	-.004	-.005	-.034	-.009	-.028	.001	-.023

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 25 ALPHA-MCL = 2.0 PDP RUN.PT 7.04
RUN 7 ALPHA-BAR = 2.0 Q-COMP = .32820
POINT 1 SIGMA = 135. V-REF = 200.93
COMPUTED FREQUENCY = 9.16, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.128	188.37	7.545	184.30	4.391	180.19	3.141	173.89	2.907	164.97	3.192	157.04	3.258	152.24
2	4.809	287.75	.135	194.90	.137	190.52	.126	191.07	.164	199.06	.186	216.12	.113	193.41
3	.595	29.22	.105	200.35	.023	85.90	.037	64.38	.048	42.81	.058	122.12	.045	181.03
4	.917	310.42	.078	322.13	.057	321.53	.078	322.04	.114	310.23	.16[illegible]	313.85	.106	306.58
5	.675	47.41	.021	207.82	.015	99.75	.040	59.81	.069	45.72	.02[illegible]	54.20	.029	65.37
6	.146	293.01	.057	299.88	.022	258.87	.014	335.00	.048	322.02	.076	333.75	.059	335.81
7	.404	64.05	.027	315.64	.014	321.79	.030	17.65	.061	36.22	.030	351.09	.026	9.23
8	.255	159.95	.019	10.01	.003	276.59	.008	138.63	.025	309.18	.053	316.93	.047	309.76
9	.229	84.39	.004	242.29	.042	254.44	.027	250.75	.007	32.42	.023	240.57	.022	270.18
10	.243	188.95	.023	289.47	.020	270.42	.024	204.13	.018	239.85	.032	293.26	.026	290.65

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.735	149.15	2.199	145.92	1.796	142.28	16.330	13.20	9.201	12.55	5.215	21.11	3.607	25.65
2	.105	160.31	.101	158.40	.091	167.54	1.927	288.60	.876	246.69	.069	165.50	.166	135.76
3	.037	141.51	.028	145.50	.034	140.09	.087	167.13	.517	341.69	.088	43.21	.055	45.40
4	.114	312.92	.114	312.70	.121	311.69	.058	304.00	.372	241.27	.160	308.22	.119	309.91
5	.027	60.78	.035	52.90	.038	49.45	.094	71.98	.191	345.57	.028	129.47	.052	76.48
6	.049	333.71	.052	330.50	.048	321.15	.073	303.36	.157	235.41	.040	289.49	.071	307.38
7	.028	3.46	.030	.55	.028	353.05	.067	58.43	.119	12.91	.045	52.36	.016	53.93
8	.047	313.71	.047	313.72	.048	309.82	.108	311.94	.087	275.43	.061	323.63	.048	326.48
9	.032	254.94	.033	258.10	.025	252.32	.094	237.83	.044	269.06	.049	243.16	.051	289.22
10	.017	285.24	.018	287.71	.021	276.89	.051	205.34	.062	225.45	.021	222.69	.031	211.92

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.216	31.48	1.981	38.09	1.180	53.93	1.016	65.07	.391	101.55	.719	112.76
2	.138	138.39	.143	142.37	.133	138.43	.109	195.29	.151	318.26	.466	201.37
3	.019	124.23	.032	170.03	.102	181.39	.068	185.23	.069	90.81	.047	268.27
4	.081	315.63	.104	320.04	.073	341.03	.165	302.50	.147	306.59	.096	290.60
5	.050	71.34	.050	62.13	.040	126.86	.033	89.01	.053	47.79	.015	101.61
6	.046	306.67	.042	295.45	.013	1.74	.079	290.39	.046	294.65	.039	307.82
7	.032	38.28	.041	39.47	.017	49.31	.027	16.49	.036	19.42	.015	11.80
8	.048	322.59	.055	322.43	.028	345.77	.064	309.53	.047	312.53	.042	314.16
9	.040	257.06	.041	250.33	.047	246.57	.040	252.69	.035	262.58	.033	245.42
10	.025	225.61	.020	236.02	.014	194.70	.034	260.84	.030	251.23	.023	272.27

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 25 ALPHA-MCL = 2.0 PDP RUN.PT 7.04
RUN 7 ALPHA-BAR = 2.0 Q-COMP = .32820
POINT 1 SIGMA = 135. V-REF = 200.93
COMPUTED FRECUENCY = 9.16, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	40.759	7.369	16.505	2.556	9.256	1.893	5.375	1.227	4.697	.403	4.499	-.023	3.577	-.564
2	-.852	2.753	-.216	-.770	.068	.042	.005	.140	.052	.145	.037	.197	.010	.114
3	-.604	-.271	.589	-.126	.062	.037	.023	.006	-.046	-.017	-.001	-.044	-.057	-.002
4	-.562	.650	-.241	-.278	.054	-.090	.015	-.043	-.015	.030	-.034	.051	.005	.062
5	-.428	-.407	.234	-.038	-.016	.007	-.008	.016	-.032	-.002	.010	.025	-.036	.006
6	-.017	.073	-.117	-.080	.006	-.017	.030	-.051	-.011	-.007	-.050	-.004	-.041	.025
7	-.142	-.306	.097	.045	.017	.044	-.019	.004	-.025	-.017	.002	.036	-.015	.009
8	.312	-.168	-.010	-.090	.049	-.037	.046	-.032	.022	-.010	.005	.003	-.003	.029
9	-.072	-.308	.001	-.041	-.011	-.004	-.009	-.022	-.015	-.043	-.002	-.019	-.019	-.020
10	.194	.016	-.051	-.023	-.016	.005	-.005	-.007	-.009	-.003	-.024	.012	-.023	.021

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.777	-.481	1.743	-.849	1.143	-.436
2	-.006	-.064	.237	-.138	-.345	-.189
3	-.039	-.029	.022	.053	.025	-.069
4	.011	-.056	.012	-.034	-.047	.001
5	-.012	.010	.015	.012	-.028	-.014
6	-.016	-.053	-.025	-.016	-.013	-.001
7	-.002	.006	.004	.012	-.015	.006
8	.008	-.015	-.001	-.001	-.001	.007
9	-.004	-.007	.002	-.003	-.006	-.006
10	-.010	-.017	-.015	-.011	-.002	-.002

N	CNREAL	CNIMAG
1	6.268	.597
2	-.041	.063
3	.017	-.027
4	-.035	-.002
5	-.012	-.008
6	-.022	-.016
7	-.005	.003
8	.024	-.017
9	-.010	-.028
10	-.009	-.060

N	CMREAL	CMIMAG
1	1.455	.354
2	-.006	.034
3	.012	-.004
4	-.012	-.002
5	.000	-.007
6	-.000	-.002
7	.001	-.003
8	.008	-.008
9	-.001	-.006
10	.002	-.000

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.308	1.774	1.623	1.642	-10.120	-.493	-2.499	.524	5.789	-4.758
2	-.102	.117	-.327	.702	.286	-2.261	-.202	-.049	-1.867	-.373
3	.005	.026	.135	.085	.316	.139	.020	.073	-.024	-.035
4	.121	-.095	.111	-.091	.135	-.294	.086	-.176	.012	.031
5	-.001	-.053	-.001	.059	.180	.114	-.045	.023	.031	-.055
6	.043	-.057	.046	-.023	-.017	-.002	.061	-.065	-.046	-.080
7	.021	.024	.015	.015	.029	.050	.001	.012	-.075	-.046
8	.035	-.019	.036	-.016	-.000	-.013	.034	-.013	-.003	.073
9	-.023	-.045	-.002	-.030	.025	.025	.001	-.019	-.054	-.001
10	-.022	-.025	-.040	-.007	-.018	.002	-.022	-.016	-.031	.006

*** STABILITY PARAMETER

```
*                *
* XI =   -.3544  *
*                *
******************
```

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 25 ALPHA-MCL = 2.0 PDP RUN.PT 7.04
RUN 7 ALPHA-BAR = 2.0 C-COMP = .3282C
POINT 1 SIGMA = 135. V-REF = 200.93
COMPUTED FREQUENCY = 9.16, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	41.424	10.27	16.703	[illegible]	9.447	11.56	6.492	10.89	4.715	4.91	4.499	359.71	3.622	351.04
2	2.892	107.19	.800	254.32	.080	31.95	.140	88.14	.154	70.41	.200	79.22	.115	84.76
3	.662	204.15	.602	347.92	.072	30.78	.024	15.45	.049	200.48	.044	269.34	.057	181.68
4	.859	130.86	.368	229.15	.105	301.01	.046	288.88	.034	117.16	.061	123.35	.062	85.02
5	.591	223.60	.208	349.55	.017	156.06	.018	115.60	.032	183.92	.027	69.01	.036	171.19
6	.075	102.89	.142	214.25	.019	290.21	.059	300.95	.013	211.75	.050	184.89	.048	148.74
7	.337	245.16	.157	24.89	.048	69.11	.020	168.52	.030	214.05	.030	86.97	.017	148.98
8	.354	331.69	.091	263.40	.059	326.09	.056	325.41	.024	336.61	.036	26.18	.029	95.60
9	.316	256.76	.041	271.37	.012	197.97	.024	247.48	.046	250.48	.019	262.39	.028	227.74
10	.194	4.72	.055	203.99	.017	161.10	.008	234.16	.009	196.44	.027	152.84	.031	137.50

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.818	350.16	1.938	334.03	1.223	339.11
2	.064	265.03	.249	326.30	.394	208.74
3	.049	216.76	.058	67.17	.073	289.80
4	.057	281.24	.036	286.70	.047	179.25
5	.016	142.39	.019	38.28	.032	207.36
6	.055	252.81	.031	212.25	.013	183.56
7	.006	109.25	.012	72.78	.016	157.29
8	.017	298.06	.021	230.72	.007	101.38
9	.008	244.02	.004	339.12	.008	223.78
10	.020	239.74	.019	217.76	.003	237.77

N	CN-MAG	PHIN
1	6.316	5.42
2	.093	116.23
3	.032	302.20
4	.035	183.69
5	.015	214.45
6	.027	216.27
7	.006	143.78
8	.029	324.22
9	.029	250.33
10	.039	180.09

N	CM-MAG	PHIM
1	1.497	13.69
2	.035	100.14
3	.012	342.16
4	.012	189.44
5	.007	273.04
6	.002	260.33
7	.003	296.70
8	.011	314.08
9	.006	258.68
10	.002	353.25

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.911	37.56	2.308	45.33	10.132	182.79	2.553	168.16	7.493	320.59
2	.155	131.10	.774	114.96	2.279	277.20	.208	193.65	1.904	191.30
3	.027	79.77	.160	32.21	.345	23.79	.076	74.55	.042	235.81
4	.154	321.83	.144	320.72	.324	294.70	.196	295.93	.033	68.91
5	.053	91.52	.059	90.66	.213	32.36	.051	152.91	.063	299.33
6	.070	334.59	.052	333.25	.017	187.69	.089	313.28	.093	240.15
7	.039	37.25	.021	46.69	.058	60.15	.012	86.33	.088	211.26
8	.040	337.25	.041	337.19	.013	269.36	.036	338.48	.073	92.44
9	.050	243.15	.030	266.82	.035	44.17	.020	273.62	.054	160.60
10	.033	228.17	.041	189.89	.018	174.93	.028	215.27	.032	158.97

*** STABILITY PARAMETER

XI = -.3544

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 27 ALPHA-MCL = 2.0 PDP RUN.PT 7.07
RUN 7 ALPHA-RAR = 2.0 Q-COMP = .32555
POINT 3 SIGMA = 135. V-REF = 200.11
COMPUTED FREQUENCY = 15.59, K = .1224

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.899	-2.871	-7.667	-.509	-4.550	-.130	-3.264	.110	-2.989	.422	-3.078	.875	-3.008	1.139
2	1.408	-4.460	.143	.047	.139	.040	.139	.031	.120	-.001	.119	-.083	.149	-.011
3	.461	.329	-.099	-.008	.004	.016	.012	.009	.028	-.018	-.036	-.007	-.056	-.021
4	.592	-.598	.069	.082	.033	.087	.037	.069	.048	.041	.047	-.012	.042	.030
5	.531	.371	-.000	-.050	.026	-.018	.048	-.010	.061	-.014	.000	-.022	.017	-.021
6	-.025	-.134	-.026	-.026	-.039	.012	-.017	.021	.009	-.008	.005	-.034	-.002	-.026
7	.266	.368	-.006	-.016	-.005	-.024	.009	-.010	.035	-.035	-.004	-.020	-.000	-.010
8	-.195	.078	-.023	.009	-.053	.037	-.047	.046	-.047	.031	-.045	-.005	-.047	.013
9	.081	.201	-.000	-.000	-.010	-.017	-.002	.001	.034	.018	.002	.006	.010	.004
10	-.166	-.005	.043	-.008	.025	.003	.017	.021	.036	.003	.036	-.005	.021	-.011

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.455	1.023	-1.949	.876	-1.571	.768	15.659	2.975	8.543	1.335	4.651	1.661	3.036	1.416
2	.170	.039	.191	.048	.197	.033	.760	-1.837	-.274	-.468	.200	.006	.184	.104
3	-.035	-.319	-.034	-.015	-.034	-.018	-.092	-.134	.252	-.356	.079	.001	.043	-.020
4	.039	.017	.038	.018	.038	.011	-.161	.034	-.263	.036	.002	-.048	-.003	-.005
5	.005	[illegible]	.007	-.019	.002	-.018	.035	.134	.045	-.088	-.030	.011	.015	.021
6	.006	[illegible]	.003	-.013	.003	-.016	.111	.014	-.029	.059	.029	.012	.040	-.020
7	.012	[illegible]	.006	.001	.004	-.012	-.013	-.082	.018	-.086	-.008	-.022	-.032	-.022
8	-.046	-.000	-.046	.006	-.043	.009	-.029	.040	-.053	.060	-.033	.030	-.036	.032
9	-.001	.016	-.007	.012	-.004	.006	.008	-.019	.025	-.027	.017	.016	.003	.004
10	.020	-.013	.017	-.011	.015	-.008	-.034	.038	-.027	.029	.007	-.018	.005	-.007

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.697	1.061	1.324	1.105	.507	.880	.214	.782	-.424	.441	-.441	.548
2	.160	.092	.212	.088	.193	.100	.181	-.009	.241	-.139	-.069	.071
3	-.008	-.020	-.027	-.025	-.088	.020	-.074	-.009	-.008	-.017	-.047	-.028
4	.000	.023	.022	.033	.051	.062	.005	-.027	.016	-.031	.016	.011
5	.012	.009	.002	-.005	-.026	.018	-.033	-.001	.009	-.023	-.008	-.011
6	.019	-.002	.027	.010	.042	.026	-.005	-.019	.002	-.007	.002	-.010
7	-.011	-.012	-.015	-.029	-.013	-.004	-.022	-.013	-.005	-.023	-.002	-.016
8	-.027	.026	-.035	.035	-.007	.026	-.050	.020	-.033	.023	-.037	.024
9	.003	.002	.014	.007	.003	.003	.000	.013	-.002	.007	.007	.011
10	.009	-.000	.022	-.016	.035	-.009	.012	-.010	.023	-.004	.019	-.004

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 27 ALPHA-MCL = 2.0 PDP RUN.PT 7.07
RUN 7 ALPHA-BAR = 2.0 Q-COMP = .32555
POINT 3 SIGMA = 135. V-REF = 200.11
COMPUTED FREQUENCY = 15.59, K = .1224

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.064	186.58	7.684	183.80	4.552	181.64	3.266	178.07	3.019	171.96	3.200	164.13	3.217	159.25
2	4.677	287.52	.151	18.14	.144	15.89	.143	12.61	.120	359.35	.145	325.06	.150	355.72
3	.567	35.55	.099	184.57	.016	74.21	.015	35.48	.034	326.95	.037	190.66	.060	200.41
4	.842	314.71	.108	49.85	.093	69.09	.079	61.83	.063	40.27	.048	346.04	.052	35.99
5	.648	34.96	.050	269.85	.031	325.39	.049	347.66	.063	346.87	.022	270.31	.026	309.13
6	.136	259.30	.037	225.91	.041	163.43	.027	128.50	.012	318.69	.035	277.53	.026	265.13
7	.454	54.20	.017	249.70	.025	258.01	.014	311.06	.050	315.05	.021	259.55	.010	268.01
8	.210	158.30	.024	158.86	.065	144.63	.066	135.70	.056	146.94	.045	185.93	.049	164.15
9	.217	67.99	.001	240.43	.020	238.84	.002	158.27	.038	27.74	.006	67.54	.011	19.85
10	.166	181.76	.044	350.13	.025	6.90	.027	50.70	.039	4.70	.036	352.52	.024	332.46

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.660	157.38	2.137	155.81	1.749	153.95	15.939	10.76	8.646	8.88	4.939	19.66	3.350	25.00
2	.175	13.03	.197	14.04	.200	9.65	1.988	292.47	.542	239.68	.200	1.59	.212	29.34
3	.040	200.46	.037	203.31	.038	208.22	.163	235.37	.436	305.37	.070	.41	.047	335.30
4	.043	23.37	.042	26.07	.039	15.93	.165	168.22	.265	172.20	.048	272.98	.006	235.20
5	.014	290.02	.020	289.00	.018	276.25	.138	75.34	.099	296.98	.032	159.39	.026	55.17
6	.013	299.70	.014	282.39	.017	281.01	.111	7.14	.066	116.57	.031	23.23	.045	332.87
7	.018	313.21	.006	8.73	.013	289.31	.084	260.83	.088	281.95	.023	248.90	.039	214.86
8	.048	180.41	.046	172.50	.043	169.86	.050	126.18	.087	136.30	.045	137.71	.048	138.28
9	.016	92.27	.012	106.19	.007	127.54	.020	292.69	.037	312.77	.020	30.70	.005	54.00
10	.024	326.47	.020	327.94	.017	331.00	.051	131.30	.040	133.28	.019	290.86	.008	305.26

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.001	32.01	1.725	39.84	1.016	60.03	.811	74.67	.612	133.88	.704	128.82
2	.185	30.02	.230	22.49	.217	27.37	.181	357.28	.278	330.11	.099	134.21
3	.022	247.51	.036	222.37	.090	167.39	.075	187.26	.019	244.65	.054	210.39
4	.023	69.68	.040	55.92	.080	50.80	.028	279.39	.035	297.36	.020	34.84
5	.015	35.71	.005	295.10	.032	145.25	.033	181.53	.025	290.78	.013	234.74
6	.019	354.52	.029	19.95	.049	32.13	.020	255.84	.007	284.52	.010	279.61
7	.016	226.41	.033	243.15	.013	196.42	.025	211.13	.024	257.10	.016	263.35
8	.037	136.03	.049	135.50	.027	104.05	.054	157.91	.040	144.79	.044	147.62
9	.004	32.56	.015	27.16	.004	40.11	.013	89.01	.007	102.81	.013	59.31
10	.009	357.14	.027	325.03	.036	345.36	.015	321.01	.023	349.57	.019	349.47

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 27 ALPHA-MCL = 2.0 POP RUN.PT 7.07
RUN 7 ALPHA-EAP = 2.0 Q-COMP = .32555
POINT 3 SIGMA = 135. V-REF = 200.11
COMPUTED FRECUENCY = 15.59, K = .1224

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	10.558	5.845	16.210	1.843	9.201	1.791	6.301	1.306	4.685	.638	4.403	.230	3.516	-.260
2	-.648	2.623	-.417	-.515	.061	-.034	.045	.072	.040	.094	.093	.171	.044	.111
3	-.553	-.463	.351	-.348	.065	-.015	.031	-.029	-.037	-.002	.009	-.018	-.032	.041
4	-.753	.632	-.332	-.046	-.031	-.134	-.040	-.074	-.048	-.018	-.024	.045	.009	.032
5	-.496	-.238	.045	-.038	-.055	.029	-.033	.032	-.049	.023	.032	.017	-.043	.039
6	.136	.147	-.004	.085	.068	.001	-.056	-.041	.010	.006	.023	.044	.044	.052
7	-.279	-.451	.024	-.071	-.003	.003	-.041	-.012	-.046	.024	-.011	-.009	-.012	.007
8	.166	-.037	-.041	.052	.019	-.007	.011	-.014	.020	-.005	.010	.039	.041	.013
9	-.074	-.220	.025	-.027	.028	.027	.005	.003	-.031	-.016	.011	.001	-.007	-.001
10	.132	.044	-.071	.037	-.018	-.021	-.012	-.028	-.030	-.004	-.014	-.011	.014	.002

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.670	-.241	1.525	-.435	1.130	-.220
2	.011	-.048	.050	-.186	-.266	.038
3	-.039	.009	.026	-.003	-.013	-.009
4	-.034	-.044	-.022	-.049	-.022	.001
5	-.038	.013	.002	-.004	-.010	.007
6	-.011	-.006	-.001	.006	-.001	.006
7	-.034	-.000	-.011	-.024	-.006	-.004
8	-.003	.021	.013	.017	.005	.016
9	.001	-.003	.002	-.005	.011	.006
10	-.008	.004	.006	.007	.004	.005

N	CNREAL	CNIMAG
1	6.201	.669
2	-.034	.089
3	.006	-.041
4	-.070	-.006
5	-.038	.009
6	.026	.019
7	-.026	-.019
8	.016	.011
9	.001	-.008
10	-.009	-.002

N	CMREAL	CMIMAG
1	1.447	.282
2	-.010	.026
3	.007	-.019
4	-.022	.002
5	-.007	-.004
6	.006	.002
7	-.004	-.008
8	.001	-.002
9	-.000	-.003
10	-.002	-.000

*** STABILITY PARAMETER

* XI = -.2822 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.045	1.485	1.449	1.338	-10.231	-.413	-2.670	.265	5.886	-5.122
2	.259	.110	.055	.647	.555	-2.102	.107	.033	-1.561	-.307
3	.022	-.046	.112	.032	.288	.165	.047	.023	-.052	-.003
4	.065	.034	.072	.112	.078	-.073	.042	-.023	-.065	.187
5	.013	.005	.038	.031	.201	-.015	-.013	.001	.018	-.051
6	.017	-.015	.022	-.048	-.056	.041	.022	-.031	-.095	.008
7	.002	-.025	-.001	-.010	.031	.015	.002	-.018	-.052	-.059
8	-.027	.032	-.022	.027	-.067	.005	-.061	.028	-.077	.088
9	.014	-.010	.000	-.032	.046	.015	.011	-.017	.009	.005
10	.003	.017	.015	.027	.029	.005	.023	-.001	-.008	.038

C-3

ORIGINAL PAGE IS
OF POOR QUALITY

OGWT PERIODICITY TEST
MODE I -- CENTER BLADE DATA, WALL STATIONS

FILE 27 ALPHA-MCL = 2.0 POP RUN.PT 7.07
RUN 7 ALPHA-RAP = 2.0 C-COMP = .32555
POINT 3 SIGMA = 135. V-REF = 203.11
COMPUTED FREQUENCY = 15.59, K = .1224

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	43.977	8.20	16.314	6.49	9.374	11.02	6.434	11.71	4.729	7.76	4.409	2.99	3.525	355.78
2	2.701	103.88	.663	230.99	.070	330.80	.085	58.15	.102	67.13	.195	61.41	.119	68.54
3	.722	219.93	.494	315.29	.067	347.07	.042	316.79	.037	182.63	.020	297.05	.051	127.81
4	.983	140.01	.335	187.94	.138	257.15	.084	241.36	.052	200.75	.051	118.71	.033	74.40
5	.550	205.60	.059	319.74	.062	152.45	.046	136.30	.054	154.71	.017	83.35	.058	137.96
6	.200	47.34	.085	92.56	.068	.63	.070	323.80	.012	32.81	.050	62.85	.068	49.75
7	.530	238.25	.075	288.71	.034	136.60	.042	195.95	.052	152.93	.014	218.83	.014	152.04
8	.170	347.29	.066	128.11	.020	340.04	.018	308.57	.021	346.70	.040	76.30	.043	17.34
9	.232	251.49	.037	313.59	.039	44.74	.006	31.10	.035	207.20	.011	6.99	.007	188.02
10	.139	18.22	.080	152.62	.028	228.87	.030	245.94	.030	186.91	.017	218.79	.015	7.80

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.681	354.84	1.586	344.09	1.151	348.99
2	.049	282.23	.193	284.90	.269	171.92
3	.040	186.43	.026	353.72	.016	215.48
4	.056	232.02	.054	246.09	.022	178.56
5	.040	161.93	.004	298.79	.012	144.15
6	.014	216.56	.006	99.89	.007	103.17
7	.034	180.42	.026	245.47	.007	211.95
8	.021	96.97	.022	52.97	.017	71.28
9	.003	285.42	.006	290.26	.013	28.05
10	.009	155.77	.009	47.75	.006	50.27

N	CN-MAG	PHIN	N	CM-MAG	PHIM
1	6.237	6.16	1	1.474	11.03
2	.095	110.65	2	.028	111.10
3	.041	278.50	3	.021	289.15
4	.070	184.93	4	.022	174.65
5	.039	166.91	5	.008	206.96
6	.032	35.45	6	.006	22.73
7	.032	215.55	7	.009	245.45
8	.019	34.41	8	.002	309.32
9	.008	274.38	9	.003	269.23
10	.069	194.86	10	.002	187.78

*** STABILITY PARAMETE
*
* XI = -.2822
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.527	35.98	1.973	42.72	10.240	182.31	2.683	174.33	7.802	318.97
2	.281	23.03	.650	85.15	2.174	284.80	.111	16.99	1.591	191.13
3	.053	295.14	.117	16.12	.332	29.75	.052	26.27	.052	183.54
4	.074	27.67	.133	57.44	.107	317.10	.048	331.75	.198	109.20
5	.014	21.46	.049	39.50	.201	355.82	.013	175.67	.054	289.48
6	.023	317.25	.053	294.65	.069	143.77	.038	305.71	.095	175.18
7	.025	275.05	.010	263.52	.034	26.04	.018	276.07	.078	228.84
8	.042	130.70	.035	128.85	.067	176.02	.067	155.44	.117	131.07
9	.017	324.61	.032	270.84	.048	17.95	.020	303.74	.010	29.68
10	.017	78.60	.031	60.28	.030	9.47	.023	358.17	.039	102.62

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 29 ALPHA-MCL = 2.0 PDP RUN.PT 7.10
RUN 7 ALPHA-BAR = 2.0 Q-COMP = .32547
POINT 5 SIGMA = 135. V-REF = 200.08
COMPUTED FRECUENCY = 19.30, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.935	-2.555	-7.739	-.435	-4.558	-.117	-3.255	.091	-2.990	.383	-3.079	.834	-2.959	1.117
2	1.196	-4.556	-.015	.035	-.025	.038	-.029	.023	-.065	-.012	-.098	-.093	-.062	-.038
3	.643	.337	-.075	.003	.017	.023	.034	.016	.052	-.004	.013	.004	-.025	-.005
4	.560	-.698	.077	.008	.042	.038	.051	.030	.052	.002	.037	-.065	.032	-.010
5	.554	.569	-.032	-.000	-.008	.004	.017	.002	.033	-.004	-.016	-.021	-.011	-.000
6	.011	.025	-.033	.031	-.051	.069	-.032	.075	.017	.026	-.046	.016	-.073	.033
7	.056	.392	-.079	-.024	-.067	-.030	-.034	-.011	-.023	-.010	-.042	-.026	-.013	-.019
8	-.322	.026	-.004	-.066	-.009	-.047	.001	-.017	.005	-.032	-.036	-.071	-.004	-.071
9	.007	.080	-.053	-.016	-.065	-.038	-.050	-.012	-.005	-.025	-.030	-.030	-.012	-.018
10	-.312	-.087	.012	-.067	.021	-.050	.017	-.015	.044	-.036	.024	-.031	.000	.018

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.464	1.011	-1.920	.860	-1.547	.772	16.168	2.909	8.605	1.274	4.800	1.767	3.142	1.543
2	-.039	.020	-.018	.021	-.012	.013	.553	-1.947	-.417	-.314	.045	-.020	.031	.083
3	-.001	.008	.003	.013	.004	.014	-.113	-.072	.152	-.323	.066	.030	.061	.015
4	.037	-.024	.029	-.021	.028	-.025	-.151	.076	-.190	.101	-.021	-.057	-.021	-.012
5	-.018	-.004	-.015	-.004	-.018	-.013	.047	-.019	-.014	-.151	-.032	.003	.012	.016
6	-.053	.029	-.053	.026	-.056	.032	.001	.009	-.058	.077	-.014	.008	-.005	-.028
7	-.023	-.004	-.014	.005	-.017	.002	.092	.060	.041	-.000	.018	.079	-.020	.079
8	-.000	-.055	-.002	-.051	-.000	-.050	.050	.012	.012	.020	-.009	.013	-.010	.004
9	.007	-.013	.014	.002	.010	.005	.046	.054	.028	.029	.056	.057	.033	.049
10	.000	.005	-.014	.024	-.008	.010	-.022	.093	-.032	.067	-.046	.044	-.050	.044

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.767	1.186	1.400	1.254	.580	1.015	.255	.906	-.440	.601	-.392	.652
2	.025	.069	.035	.056	.031	.068	-.014	-.043	.015	-.163	-.186	.088
3	.008	.015	-.006	.018	-.047	.064	-.036	.028	.006	-.001	-.018	.011
4	.001	.006	.024	.006	.059	.016	-.007	-.061	.000	-.049	.014	-.013
5	.003	.004	-.006	.012	-.031	.034	-.030	.014	-.003	-.027	-.012	.000
6	-.018	.000	.012	-.005	.010	.013	-.044	-.011	-.031	.004	-.028	.011
7	-.011	.056	-.025	.078	-.025	.059	-.041	.044	-.049	.018	-.038	.020
8	-.005	-.011	-.004	-.007	.015	-.025	-.021	-.020	.010	-.028	-.003	-.025
9	.012	.039	.025	.043	.008	.043	.001	.041	-.002	.030	-.005	.022
10	-.032	.016	-.033	-.010	-.031	-.005	-.036	-.015	-.011	-.026	-.011	-.021

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 29 ALPHA-MCL = 2.0 PDP RUN.PT 7.10
RUN 7 ALPHA-BAR = 2.0 Q-COMP = .32547
POINT 5 SIGMA = 135. V-REF = 200.08
COMPUTED FREQUENCY = 19.30, K = .1516

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.065	185.85	7.751	183.22	4.560	181.48	3.256	178.40	3.014	172.70	3.190	164.84	3.163	159.33
2	4.711	284.71	.038	112.59	.046	123.51	.037	141.62	.066	190.56	.135	223.62	.073	211.15
3	.726	27.65	.075	177.43	.028	53.38	.037	24.85	.052	355.57	.013	17.28	.025	190.52
4	.895	308.75	.077	5.71	.057	42.11	.059	30.76	.052	2.16	.075	299.23	.034	342.09
5	.794	45.75	.032	180.71	.008	154.17	.017	7.43	.033	353.70	.026	234.06	.011	180.96
6	.027	66.32	.045	136.57	.086	126.53	.082	112.80	.031	56.46	.049	160.66	.081	155.53
7	.396	81.87	.083	196.94	.073	204.33	.036	198.56	.025	203.61	.050	212.16	.023	235.92
8	.323	175.33	.066	266.91	.048	259.68	.017	273.35	.032	278.78	.071	265.51	.071	266.95
9	.080	84.75	.055	197.24	.075	210.56	.052	193.60	.026	258.28	.043	225.39	.021	236.03
10	.324	195.52	.068	280.14	.054	292.32	.022	318.80	.056	320.74	.039	306.89	.018	88.72

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.664	157.69	2.104	155.87	1.729	153.47	16.428	10.20	8.699	8.42	5.115	20.20	3.500	26.16
2	.044	152.54	.028	131.54	.018	131.37	2.024	285.87	.522	217.02	.049	335.50	.089	69.85
3	.008	99.71	.014	76.73	.014	74.40	.134	212.36	.357	295.19	.091	19.54	.063	13.85
4	.044	326.89	.035	324.38	.037	317.70	.169	153.10	.215	152.07	.061	249.85	.025	210.13
5	.019	193.07	.016	193.36	.023	216.03	.051	337.83	.151	264.72	.032	174.61	.021	52.87
6	.060	151.50	.059	153.87	.065	150.46	.009	85.25	.096	127.22	.016	149.76	.029	259.48
7	.023	188.69	.015	159.69	.017	174.26	.110	33.36	.041	359.76	.081	77.23	.081	104.11
8	.055	269.97	.051	267.42	.050	269.84	.051	13.53	.023	59.86	.016	124.76	.011	158.33
9	.014	300.26	.014	9.05	.011	25.05	.071	49.64	.040	45.78	.087	40.96	.059	55.75
10	.005	85.47	.027	121.07	.013	127.67	.095	103.27	.074	115.30	.063	136.31	.066	136.51

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.91J-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.128	33.86	1.879	41.84	1.169	60.27	.941	74.29	.745	126.20	.761	121.01
2	.073	69.98	.066	57.55	.074	65.53	.045	251.65	.163	275.11	.205	154.62
3	.017	61.39	.019	108.90	.080	126.17	.046	141.87	.006	354.24	.021	148.15
4	.006	84.77	.025	13.76	.061	15.49	.062	263.48	.049	270.55	.019	317.14
5	.005	49.63	.014	116.48	.046	132.25	.033	154.27	.028	263.08	.012	178.06
6	.018	179.98	.013	336.53	.016	51.48	.046	194.28	.032	172.86	.030	158.16
7	.057	101.22	.082	108.10	.064	113.37	.060	133.26	.052	159.61	.043	151.65
8	.013	244.48	.008	240.54	.030	301.54	.029	223.14	.030	290.11	.025	263.61
9	.041	73.42	.050	60.17	.044	79.08	.041	88.15	.030	94.52	.022	101.92
10	.036	153.56	.034	196.97	.031	186.69	.039	202.60	.028	247.14	.024	241.40

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 29 ALPHA-FCL = 2.0 PDP RUN.PT 7.10
RUN 7 ALPHA-PAP = 2.0 Q-COMP = .32547
POINT 5 SIGMA = 135. V-REF = 200.98
COMPUTED FREQUENCY = 19.30, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	41.103	5.465	16.344	1.709	9.359	1.884	6.396	1.452	4.757	.803	4.479	.419	3.539	-.102
2	-.643	2.609	-.402	-.350	.070	-.059	.060	.060	.090	.061	.134	.149	.093	.105
3	-.756	-.408	.227	-.376	.069	.008	.023	-.001	-.044	.019	-.019	.014	-.022	.069
4	-.711	.775	-.267	.093	-.063	-.096	-.073	-.043	-.051	.004	-.013	.071	.027	.027
5	-.506	-.588	.018	-.150	-.024	-.001	-.005	.014	-.030	.007	.009	.034	-.020	.034
6	-.010	-.016	-.026	.046	.037	-.061	.026	-.104	-.036	-.026	.058	-.021	.083	-.021
7	.036	-.332	.121	.024	.084	.109	.014	.090	.012	.066	.017	.104	-.013	.077
8	.372	-.014	.015	.086	-.000	.060	-.011	.021	-.010	.020	.001	.064	.019	.046
9	.039	-.025	.081	.045	.131	.095	.083	.061	.017	.064	.055	.073	.020	.061
10	.290	.179	-.043	.134	-.066	.094	-.066	.059	-.076	.052	-.056	.021	-.032	-.023

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.719	-.106	1.460	-.259	1.154	-.120
2	.025	-.063	.033	-.183	-.174	.075
3	-.035	.020	.003	-.014	-.022	-.003
4	-.044	-.037	-.028	-.029	-.014	.012
5	-.012	.019	.012	-.024	.006	.014
6	.009	-.040	.022	-.022	.029	-.021
7	-.018	.047	-.034	.013	-.021	.019
8	-.021	.036	.012	.023	-.003	.025
9	-.006	.053	-.017	.028	-.015	.017
10	-.036	-.020	.003	-.050	-.003	-.031

N	CNREAL	CNIMAG
1	6.283	.775
2	-.002	.093
3	-.014	-.020
4	-.068	.025
5	-.023	-.015
6	.023	-.032
7	.016	.054
8	.011	.038
9	.040	.054
10	-.035	.031

N	CMREAL	CMIMAG
1	1.467	.268
2	-.013	.029
3	.000	-.017
4	-.022	.010
5	-.008	-.014
6	-.003	-.002
7	.010	-.001
8	.006	.002
9	.011	.003
10	-.000	.016

*** STABILITY PARAMETER

* XI = -.2678 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.087	1.565	1.506	1.421	-10.112	-.265	-2.615	.265	5.997	-5.159
2	.005	.111	-.213	.662	.300	-2.120	-.114	.044	-1.752	-.359
3	.019	-.008	.120	.072	.353	.151	.081	.053	-.152	.063
4	.039	-.011	.074	-.001	.129	-.114	.012	-.054	-.114	.227
5	.005	-.021	.014	-.017	.150	.073	-.027	.019	.041	-.055
6	-.043	.040	-.022	.046	-.088	.149	-.044	.018	-.104	.063
7	.011	.013	.013	.006	-.073	.017	-.052	-.011	-.073	.019
8	.010	-.036	-.022	-.041	-.032	-.084	.002	-.042	.031	.017
9	-.015	.037	-.026	.049	-.043	.021	-.030	-.010	-.006	.069
10	-.002	.005	.033	-.003	-.043	-.091	-.003	-.008	-.023	.022

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 29 ALPHA-MCL = 2.0 PDP RUN.PT 7.10
RUN 7 ALPHA-BAR = 2.0 Q-COMP = .32547
POINT 5 SIGMA = 135. V-REF = 200.08
COMPUTED FREQUENCY = 19.30, K = .1516

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	41.465	7.57	16.433	5.97	9.546	11.38	6.559	12.79	4.624	9.58	4.498	5.35	3.540	358.36
2	2.687	103.83	.533	221.00	.091	320.15	.085	45.36	.121	42.11	.200	48.17	.141	48.52
3	.859	208.38	.398	304.84	.069	6.38	.028	358.84	.048	156.57	.023	143.71	.073	107.75
4	1.052	132.55	.283	160.76	.115	236.52	.084	210.58	.051	175.25	.072	100.17	.038	44.87
5	.776	229.25	.151	276.74	.024	181.66	.015	108.10	.031	166.60	.035	74.47	.040	119.85
6	.019	237.79	.053	119.25	.071	301.37	.107	284.29	.044	215.92	.062	339.79	.086	346.08
7	.334	276.15	.123	11.24	.138	52.20	.091	81.14	.067	79.76	.105	80.96	.078	99.26
8	.372	357.80	.088	80.04	.060	90.30	.024	117.83	.023	117.07	.064	88.69	.050	67.34
9	.046	326.79	.093	29.20	.162	36.16	.103	36.09	.067	75.31	.092	53.34	.064	71.67
10	.341	31.73	.141	108.03	.115	125.26	.089	138.58	.092	145.75	.060	159.08	.039	215.93

X =	.774		.860		.910		N	CN-MAG	PHIN	N	CM-MAG	PHIM
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI						
1	2.721	357.78	1.503	350.08	1.161	354.07	1	6.330	7.03	1	1.491	10.35
2	.067	291.45	.186	280.17	.189	156.75	2	.093	91.50	2	.032	114.33
3	.040	149.78	.014	282.78	.022	187.73	3	.024	235.75	3	.017	271.36
4	.058	220.50	.040	225.70	.019	138.26	4	.073	160.10	4	.024	155.55
5	.022	121.88	.027	296.34	.015	66.26	5	.027	213.56	5	.017	240.02
6	.041	282.46	.031	314.36	.035	323.92	6	.040	305.26	6	.003	209.10
7	.051	110.91	.037	159.58	.028	138.10	7	.056	72.88	7	.010	354.33
8	.041	120.39	.026	61.70	.025	95.93	8	.040	74.67	8	.006	18.43
9	.054	96.42	.032	120.81	.023	130.36	9	.067	53.75	9	.011	15.43
10	.042	209.27	.050	273.73	.031	263.87	10	.047	138.16	10	.016	91.69

*** STABILITY PARAMETE

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.609	36.85	2.070	43.34	10.116	181.50	2.628	174.21	7.911	319.29
2	.111	87.64	.696	107.82	2.142	278.06	.122	158.67	1.788	191.59
3	.020	338.19	.140	30.83	.384	23.20	.097	33.33	.164	157.35
4	.041	343.72	.074	359.48	.172	318.38	.055	282.90	.254	116.79
5	.022	284.11	.022	309.73	.167	26.02	.033	144.02	.069	307.03
6	.059	137.01	.051	115.61	.173	120.74	.047	157.77	.121	148.72
7	.017	50.89	.015	23.41	.075	167.06	.053	192.26	.075	165.25
8	.040	284.25	.046	241.86	.089	248.57	.042	272.93	.036	28.58
9	.040	111.93	.056	118.07	.048	153.89	.031	198.34	.069	94.98
10	.005	112.14	.033	354.91	.101	244.45	.009	248.72	.032	136.34

*
* XI = -.2678
*
****

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 39 ALPHA-MCL = 2.0 PDP RUN.PT 9.10
RUN 9 ALPHA-BAR = 2.0 Q-COMP = .32110
POINT 1 SIGMA = 180. V-REF = 198.68
COMPUTED FREQUENCY = 9.16, K = .0724

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.520	1.572	-7.616	.745	-4.356	.548	-3.069	.458	-2.890	.478	-3.090	.428	-3.110	.454
2	-.338	-4.425	.013	.155	-.020	.090	-.031	.058	-.043	-.006	-.086	-.119	-.068	-.065
3	.790	.168	.083	.155	.171	.134	.167	.117	.181	.116	.123	.137	.079	.160
4	-.267	-.771	-.029	.030	-.022	.044	-.007	.029	-.013	.002	-.052	-.038	.006	.020
5	.538	-.177	-.083	.022	-.035	.015	-.010	.001	.007	-.024	-.035	.011	-.016	-.005
6	-.005	.018	.012	.061	-.013	.085	.016	.072	.000	.044	-.030	.031	-.010	.041
7	.449	-.318	-.004	-.055	-.015	-.030	.004	-.032	.021	-.066	.002	-.033	-.003	-.032
8	-.066	.251	-.058	.006	-.019	.020	.006	.024	-.002	-.000	-.024	-.002	-.004	-.000
9	.160	-.133	.009	.000	-.024	.028	-.007	.016	.007	-.019	.004	.007	.006	-.001
10	.167	.173	.014	-.010	.007	-.004	.036	.009	.033	.001	.020	-.005	.021	.000

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.514	.454	-1.896	.476	-1.363	.525	17.798	-.069	9.952	-.248	5.637	.660	3.843	.750
2	-.046	.005	-.042	.017	-.050	.001	-.426	-2.712	-.667	-.825	-.067	-.137	-.040	-.026
3	.101	.140	.104	.139	.114	.141	-.253	.183	.389	-.386	.190	.071	.159	.085
4	-.007	.006	-.000	.011	-.006	.005	.011	.137	-.358	.035	-.059	-.049	-.039	-.001
5	-.019	.003	-.016	.001	-.019	.008	.100	.014	-.004	-.161	-.026	.049	.006	.022
6	.001	.037	.003	.034	-.005	.035	-.116	-.087	-.153	.096	-.045	.005	-.053	-.001
7	.003	-.035	-.003	-.040	-.005	-.037	-.046	.105	-.024	-.036	-.031	.024	-.025	.009
8	-.006	-.004	.008	.002	.004	.001	.088	-.056	.012	.026	.034	.002	.010	-.005
9	.003	.011	-.002	.010	-.010	.014	-.083	.031	-.046	-.008	-.018	.013	-.032	.023
10	.031	-.004	.030	-.006	.027	.000	.064	.022	.028	.049	.027	.001	.035	.012

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.278	.693	1.953	.890	.977	.819	.667	.815	.208	.071	.008	.730
2	-.035	-.009	-.027	-.025	.004	.008	-.042	-.073	.188	-.155	-.418	-.142
3	.109	.093	.124	.123	.060	.170	.077	.155	.146	.136	.131	.107
4	-.022	.021	-.010	.019	.033	.047	-.039	-.014	-.040	-.030	-.048	.050
5	-.004	.024	-.021	.031	-.034	.063	-.049	.057	-.009	.004	-.052	.011
6	-.030	.020	-.019	.038	-.034	.046	-.045	.026	-.031	.029	-.012	.026
7	-.006	-.007	-.010	-.022	-.005	-.018	-.015	-.020	-.009	-.050	-.008	-.034
8	.005	-.004	.012	.005	.042	.001	-.007	.014	.007	.015	.011	.004
9	-.024	.020	-.026	.020	-.020	.015	-.024	.019	-.026	.006	-.010	.012
10	.031	.006	.036	.005	.048	-.007	.024	.012	.031	.012	.025	.005

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 39 ALPHA-MCL = 2.0 PDP RUN.PT 9.10
RUN 9 ALPHA-BAR = 2.0 Q-COMP = .32110
POINT 1 SIGMA = 180. V-REF = 198.68
COMPUTED FREQUENCY = 9.16, K = .0724

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.568	176.48	7.652	174.41	4.390	172.83	3.103	171.51	2.929	170.61	3.120	172.11	3.143	171.70
2	4.438	265.64	.156	85.20	.092	102.49	.066	118.11	.044	188.05	.146	234.12	.094	224.03
3	.808	12.00	.175	61.94	.217	37.98	.204	35.08	.215	32.79	.184	48.16	.179	63.70
4	.816	250.87	.041	134.35	.049	116.22	.030	103.47	.013	170.93	.064	215.98	.021	73.93
5	.567	341.78	.086	164.94	.039	156.68	.010	172.45	.025	286.34	.039	163.76	.017	197.09
6	.018	104.41	.062	79.11	.086	81.01	.074	77.24	.044	89.49	.043	133.33	.042	103.73
7	.550	324.66	.055	265.88	.034	242.81	.033	276.95	.070	287.51	.033	273.67	.032	264.70
8	.260	104.72	.058	174.50	.027	133.05	.025	75.35	.002	180.49	.024	183.95	.004	184.65
9	.224	323.52	.009	.06	.037	130.82	.017	113.83	.021	289.19	.008	59.42	.006	351.07
10	.241	46.05	.017	324.22	.009	329.01	.037	14.16	.033	1.73	.021	347.03	.021	.90

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.555	169.77	1.955	165.91	1.461	158.92	17.798	359.78	9.955	358.57	5.676	6.63	3.916	11.04
2	.046	173.78	.045	158.07	.050	178.60	2.745	261.08	1.061	[illegible]	.152	244.07	.048	213.34
3	.173	54.22	.174	53.25	.182	53.96	.312	144.12	.548	315.19	.203	20.56	.180	28.28
4	.010	137.73	.011	90.96	.008	142.06	.138	85.52	.360	174.41	.077	219.61	.039	161.02
5	.019	170.10	.016	175.74	.021	157.76	.101	7.78	.161	268.45	.055	117.96	.023	74.29
6	.037	88.78	.034	85.76	.036	97.96	.145	217.12	.181	147.83	.045	174.00	.053	180.90
7	.036	274.68	.040	266.10	.037	261.96	.114	113.80	.044	235.84	.039	141.86	.027	161.01
8	.008	212.11	.009	11.59	.004	11.91	.104	327.52	.029	66.15	.034	3.76	.011	331.16
9	.011	75.17	.010	101.28	.017	124.22	.088	159.50	.047	190.22	.023	144.59	.039	144.51
10	.031	352.98	.031	348.06	.027	.17	.068	19.18	.056	59.89	.027	1.75	.037	19.24

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.381	16.91	2.146	24.49	1.275	39.95	1.053	50.68	.220	18.91	.730	89.39
2	.037	194.79	.037	222.64	.009	62.96	.084	240.32	.244	320.45	.442	198.79
3	.143	40.32	.175	44.93	.180	70.62	.173	63.63	.199	43.07	.147	46.66
4	.030	136.38	.021	118.82	.058	55.31	.341	200.37	.050	216.85	.069	133.58
5	.025	99.07	.038	123.84	.071	118.83	.075	130.86	.010	155.46	.053	167.89
6	.036	146.01	.043	116.67	.058	53.24	.052	149.76	.042	137.01	.029	113.74
7	.009	229.31	.024	246.64	.019	255.07	.025	232.98	.050	259.80	.035	257.13
8	.006	325.97	.013	22.19	.042	1.24	.015	116.89	.017	66.20	.012	21.86
9	.031	141.36	.032	141.42	.025	143.48	.031	140.93	.027	166.89	.015	128.67
10	.031	11.94	.037	7.66	.048	352.20	.026	25.75	.034	21.19	.025	11.88

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 39 ALPHA-MCL = 2.0 PDP RUN.PT 9.10
RUN 9 ALPHA-BAR = 2.0 Q-COMP = .32110
POINT 1 SIGMA = 180. V-REF = 193.66
COMPUTED FREQUENCY = 9.16, K = .0724

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	43.317	-1.641	17.568	-.994	9.993	.112	6.912	.292	5.168	.215	5.043	.461	4.087	.365
2	-.088	1.713	-.680	-.980	-.047	-.227	-.009	-.085	.008	-.003	.059	.094	.072	.073
3	-1.043	.015	.306	-.541	.018	-.063	-.008	-.032	-.072	-.024	.001	-.014	-.020	.009
4	.278	.908	-.329	.005	-.038	-.093	-.032	-.030	-.008	.019	.041	.056	.027	.027
5	-.438	.191	.079	-.184	.009	.034	.016	.021	-.011	.048	.017	.020	-.018	.068
6	-.111	-.105	-.165	.035	-.058	-.080	-.070	-.073	-.030	-.024	.010	.007	.044	.006
7	-.495	.423	-.020	.019	-.015	.054	-.029	.041	-.027	.060	-.012	.011	-.002	.013
8	.154	-.307	.070	.021	.052	-.018	.004	-.029	.008	-.004	.036	.007	.046	.001
9	-.263	.164	-.055	-.008	.006	-.015	-.025	.007	-.031	.039	-.029	.013	-.026	.016
10	-.103	-.151	.014	.059	.020	.005	-.001	.003	-.002	.005	.016	.010	.027	-.007

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	3.181	.361	2.105	-.405	1.371	.205
2	.004	-.078	.230	-.172	-.368	-.144
3	-.024	.015	.042	-.003	-.014	-.034
4	-.031	-.021	-.040	-.041	-.041	.045
5	-.030	.053	.006	.003	-.032	.003
6	-.046	-.011	-.033	-.006	-.007	-.009
7	-.018	.015	-.006	-.009	-.003	.003
8	-.000	.018	-.002	.014	.007	.004
9	-.027	.008	-.024	-.004	.000	-.002
10	-.007	.015	.001	.018	-.002	.005

N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
1	6.863	.100	1	1.535	-.059
2	-.058	-.057	2	-.015	-.006
3	-.024	-.053	3	-.006	-.019
4	-.023	.028	4	-.006	.009
5	-.012	.023	5	-.001	-.003
6	-.033	-.022	6	-.010	-.005
7	-.030	.037	7	-.009	.010
8	.027	-.010	8	.005	-.006
9	-.030	.013	9	-.005	.002
10	.004	.005	10	-.001	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	3.075	.786	2.456	.830	-9.813	1.066	-2.370	.649	7.627	.598
2	-.107	-.013	-.067	.644	-.177	-2.106	-.089	.054	-.112	-1.590
3	.145	.145	.306	.150	.540	.180	.241	.165	.180	.113
4	-.092	-.012	-.096	-.026	-.030	-.156	-.091	-.035	-.005	-.182
5	-.056	.030	-.018	.026	.109	.056	-.039	.065	-.050	-.022
6	-.056	.039	-.050	.021	.044	.154	-.017	.018	.027	.069
7	-.024	-.017	-.006	-.005	.056	-.073	-.016	.001	-.051	.063
8	-.004	-.004	-.023	.006	-.057	.038	-.005	-.001	.079	.062
9	-.029	.018	-.050	.039	.030	-.003	-.024	.011	-.046	.079
10	.037	.015	.023	.041	.005	.026	.021	.017	.042	.052

*** STABILITY PARAMETER

* XI = .0590 *

OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 39 ALPHA-MCL = 2.0 PDP RUN.PT 9.10
RUN 9 ALPHA-BAR = 2.0 G-COMP = .32110
POINT 1 SIGMA = 180. V-REF = 198.68
COMPUTED FREQUENCY = 9.16, K = .0724

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	43.348	357.83	17.596	356.76	9.994	.64	6.918	2.42	5.172	2.38	5.064	5.23	4.103	5.10
2	1.715	92.95	1.193	235.23	.231	258.35	.085	263.84	.608	337.55	.111	57.89	.103	45.67
3	1.043	179.18	.622	299.51	.065	286.25	.033	255.29	.075	198.41	.014	272.79	.022	154.52
4	.949	72.97	.329	179.06	.101	247.95	.044	223.01	.020	114.53	.070	53.74	.038	45.02
5	.478	156.46	.200	293.27	.035	74.29	.026	52.32	.049	102.70	.026	50.27	.070	105.32
6	.153	223.49	.169	167.96	.099	233.95	.101	226.34	.039	218.00	.012	32.56	.045	7.13
7	.651	139.49	.028	137.62	.056	105.72	.050	125.33	.065	114.32	.016	137.43	.013	98.66
8	.343	296.57	.073	16.63	.055	341.30	.030	276.91	.008	335.40	.037	10.21	.046	1.56
9	.310	148.02	.055	168.64	.016	291.01	.026	164.31	.050	128.70	.032	155.89	.030	148.35
10	.183	235.74	.061	76.35	.020	14.87	.003	110.19	.006	111.16	.019	31.04	.028	345.60

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.202	6.47	2.143	349.11	1.386	8.49
2	.076	273.19	.287	323.19	.395	201.30
3	.028	148.79	.042	355.59	.037	248.22
4	.038	213.50	.057	225.96	.061	132.45
5	.062	119.60	.007	25.98	.033	174.36
6	.047	193.65	.034	189.49	.011	233.91
7	.029	139.16	.011	236.57	.004	135.13
8	.018	91.36	.014	97.28	.008	26.24
9	.028	162.46	.024	168.28	.002	271.33
10	.017	114.09	.018	85.72	.006	113.57

N	CN-MAG	PHIN
1	6.864	.83
2	.081	224.26
3	.058	245.82
4	.037	129.07
5	.026	118.22
6	.040	213.09
7	.048	128.45
8	.029	339.90
9	.033	155.79
10	.006	48.13

N	CM-MAG	PHIM
1	1.536	357.80
2	.016	200.37
3	.020	251.80
4	.010	123.56
5	.003	249.37
6	.011	207.58
7	.014	131.45
8	.008	308.66
9	.005	157.31
10	.001	229.85

*** STABILITY PARAMETE
*
* XI = .0590
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.174	14.34	2.593	18.67	9.870	173.80	2.457	164.68	7.650	4.45
2	.108	167.08	.648	95.96	2.114	265.18	.104	148.91	1.594	265.98
3	.205	44.89	.340	26.08	.569	18.43	.292	34.52	.212	32.11
4	.092	187.46	.099	195.28	.159	259.22	.097	201.36	.182	268.53
5	.063	151.90	.032	125.12	.122	27.29	.076	120.88	.054	204.37
6	.068	145.23	.054	157.34	.160	74.17	.025	133.92	.074	68.60
7	.029	214.86	.008	221.42	.092	307.53	.016	178.17	.081	128.99
8	.006	218.41	.024	165.33	.069	146.60	.005	195.00	.100	38.10
9	.034	148.81	.062	142.40	.030	354.46	.026	154.46	.091	120.31
10	.040	21.78	.047	61.18	.026	78.70	.027	38.42	.067	51.02

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 41 ALPHA-MCL = 2.0 PDP [illegible] 9.20
RUN 9 ALPHA-BAR = 2.0 [illegible] = .32430
POINT 3 SIGMA = 180. [illegible] = 199.68
COMPUTED FREQUENCY = 15.47, K = .1217

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.695	2.084	-7.755	.393	-4.547	.008	-3.253	-.176	-3.117	-.303	-3.351	-.404	-3.394	-.374
2	-.631	-4.546	.111	.354	.077	-.001	.071	-.033	.087	-.110	.019	-.213	.053	-.150
3	.695	-.114	-.004	-.011	.077	-.031	.081	-.037	.066	-.060	.022	-.029	-.004	.016
4	-.329	-.720	.003	.028	.003	.045	.003	.035	-.010	.006	-.072	-.006	-.013	.006
5	.604	-.277	-.016	-.003	.009	-.021	.027	-.037	.018	-.059	-.000	-.000	-.008	-.011
6	-.128	-.093	-.000	-.024	.024	-.004	.038	-.010	.025	-.037	-.015	-.030	.002	-.030
7	.280	-.408	-.015	.004	-.007	.022	.010	-.004	-.006	-.057	.009	.015	-.000	.019
8	.081	.111	.030	-.025	.060	-.013	.065	-.009	.022	-.004	.024	-.009	.034	-.017
9	.076	-.165	-.026	.016	-.020	.032	-.003	.015	-.010	-.001	-.007	.009	-.013	.013
10	.259	.177	.001	.011	.002	.008	.024	-.000	.020	-.016	.011	.005	.010	.008

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.731	-.365	-2.082	-.354	-1.532	-.265	17.330	-1.281	9.318	-1.260	5.437	.018	3.636	.160
2	.084	-.095	.079	-.087	.065	-.101	-.470	-2.622	-.626	-.514	.022	-.214	.058	-.101
3	.003	.006	.004	-.000	.004	-.005	-.366	.076	-.012	-.425	.049	-.067	.016	-.055
4	-.022	.003	-.023	.000	-.032	-.004	-.034	.130	-.198	.178	-.093	-.057	-.065	-.008
5	-.001	-.011	-.007	-.010	-.001	-.009	.083	.001	-.078	-.096	-.008	.021	.020	-.011
6	-.001	-.030	.003	-.038	-.008	-.025	-.008	-.050	.022	.075	-.005	-.019	-.025	-.025
7	.010	.008	.003	.014	.003	.011	.015	.032	-.033	-.018	-.013	.012	-.007	.014
8	.030	-.017	.034	-.016	.040	-.021	.049	-.019	.074	.025	.060	.027	.048	.017
9	-.009	.008	-.010	.008	-.007	.012	.013	.009	-.013	-.003	.018	-.005	.006	.020
10	.010	.002	.009	.000	.008	.002	-.020	-.012	-.001	-.005	-.025	-.023	.001	-.020

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.102	.200	1.733	.258	.818	.278	.486	.183	-.236	-.395	-.114	.089
2	.059	-.079	.088	-.122	.114	-.084	.057	-.167	.125	-.267	-.180	-.036
3	-.005	-.032	-.016	-.029	-.020	.043	-.025	.023	.001	-.026	-.009	.008
4	-.034	.002	-.031	-.003	.027	-.004	-.077	-.018	-.075	-.015	-.034	.027
5	.008	-.015	-.002	-.003	.014	.025	.005	.033	-.000	-.015	.005	.014
6	-.008	-.011	.008	-.012	.079	-.047	-.029	-.000	-.017	-.016	-.013	-.014
7	-.003	-.008	-.016	-.031	.001	-.006	-.002	-.002	-.017	-.012	-.001	-.014
8	.039	.011	.036	.070	.043	-.020	.036	.030	.041	.003	.041	.038
9	-.003	.010	-.002	.017	-.019	.007	-.008	.015	[illegible]	.007	-.007	-.000
10	-.002	-.019	-.007	-.027	-.014	-.025	.008	-.005	[illegible]	-.015	.011	-.009

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE #1 ALPHA-MCL = 2.0 PDP RUN.PT 9.20
RUN 9 ALPHA-PAR = 2.0 Q-COMP = .32430
POINT 3 SIGMA = 180. V-REF = 199.68
COMPUTED FREQUENCY = 15.47, K = .1217

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.779	175.36	7.765	177.10	4.547	179.90	3.258	183.10	3.132	185.56	3.375	186.87	3.355	186.4[illegible]
2	4.589	262.10	.123	25.79	.077	358.91	.078	334.80	.140	308.23	.214	275.19	.159	289.[illegible]
3	.704	350.68	.011	251.58	.083	338.23	.089	335.56	.090	317.79	.036	307.44	.017	103.[illegible]
4	.792	245.45	.029	79.14	.045	86.46	.035	85.90	.011	150.77	.072	184.45	.014	154.[illegible]
5	.664	335.33	.016	190.89	.023	294.46	.046	305.74	.061	286.58	.000	201.73	.014	232.9[illegible]
6	.158	216.06	.024	269.32	.024	349.60	.039	345.13	.044	303.84	.034	243.70	.031	274.3[illegible]
7	.494	304.45	.015	166.30	.023	107.72	.011	340.33	.058	263.98	.017	59.29	.019	90.1[illegible]
8	.137	53.74	.039	320.13	.062	347.44	.066	351.77	.022	350.13	.025	339.07	.038	333.[illegible]
9	.182	294.78	.031	149.03	.038	121.33	.016	101.54	.010	183.12	.011	128.34	.018	135.2[illegible]
10	.322	33.29	.011	83.73	.008	72.52	.024	359.81	.026	320.70	.012	24.50	.013	40.6[illegible]

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.755	187.62	2.111	169.65	1.555	189.84	17.377	355.77	9.402	352.30	5.437	.19	3.640	2.5[illegible]
2	.127	311.36	.117	311.88	.120	302.96	2.663	259.83	.810	219.41	.215	275.90	.116	299.8[illegible]
3	.007	65.33	.004	353.13	.007	309.95	.374	168.23	.425	268.32	.083	305.95	.057	286.6[illegible]
4	.022	171.24	.023	179.52	.032	187.60	.134	104.87	.266	138.11	.109	211.59	.065	186.9[illegible]
5	.011	264.08	.012	234.85	.009	265.21	.083	.46	.124	231.06	.022	111.59	.023	331.4[illegible]
6	.030	267.25	.038	274.52	.026	253.07	.051	251.47	.078	73.72	.020	254.01	.035	224.2[illegible]
7	.013	36.75	.015	76.51	.012	73.73	.035	64.75	.037	208.91	.018	138.87	.016	118.7[illegible]
8	.034	330.15	.037	334.90	.045	332.12	.052	338.96	.078	18.50	.066	24.22	.051	19.4[illegible]
9	.012	139.57	.013	142.05	.014	121.36	.016	34.28	.013	191.24	.013	346.03	.021	73.7[illegible]
10	.010	9.91	.009	3.15	.008	16.52	.023	210.60	.005	253.66	.035	221.91	.020	273.6[illegible]

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.112	5.43	1.752	8.47	.864	18.76	.519	20.67	.460	239.15	.125	156.62
2	.099	306.86	.151	305.95	.141	323.49	.176	288.73	.294	295.14	.183	191.27
3	.032	261.21	.033	240.19	.047	115.14	.034	137.00	.026	273.11	.012	137.83
4	.034	176.58	.031	185.33	.027	350.70	.079	192.92	.077	191.05	.038	153.15
5	.017	299.48	.004	235.09	.030	61.91	.034	81.78	.015	268.84	.015	70.08
6	.014	231.53	.014	302.26	.055	301.20	.029	180.58	.023	223.17	.019	228.63
7	.008	251.40	.034	242.94	.006	275.73	.002	225.72	.021	214.51	.014	267.63
8	.041	15.41	.047	39.12	.097	335.11	.047	39.92	.042	4.47	.042	11.54
9	.011	107.40	.017	95.19	.020	158.80	.017	117.47	.014	148.21	.007	182.96
10	.019	265.40	.027	284.02	.029	240.20	.009	323.90	.015	260.59	.014	319.61

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 41 ALPHA-MCL = 2.0 PDP RUN.PT 9.20
RUN 9 ALPHA-PAR = 2.0 Q-COMP = .32430
POINT 3 SIGMA = 180. V-REF = 199.68
COMPUTED FREQUENCY = 15.47, K = .1217

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	43.025	-3.366	17.073	-1.653	9.984	.011	6.889	.336	5.219	.503	5.084	.661	4.151	.652
2	.160	1.924	-.737	-.568	-.055	-.212	-.013	-.068	-.028	.031	.069	.091	.061	.066
3	-1.061	.190	-.009	-.415	-.028	-.037	-.065	-.018	-.071	.028	-.038	.000	-.016	.026
4	.295	.850	-.204	.150	-.096	-.102	-.068	-.043	-.024	-.004	.043	.003	.040	-.011
5	-.521	.278	-.062	-.093	-.018	.041	-.007	.026	-.009	.044	-.002	-.003	.022	.037
6	.120	.042	.022	.100	-.029	-.015	-.063	-.015	-.033	.026	.023	.018	.026	-.017
7	-.264	.440	-.018	-.022	-.006	-.010	-.018	.017	.003	.050	-.024	-.045	.001	-.025
8	-.032	-.130	.044	.050	.000	.041	-.018	.026	.017	.015	.013	.039	.009	-.003
9	-.063	.174	.013	-.018	.038	-.037	.009	.005	.007	.011	.005	.009	-.006	-.006
10	-.289	-.188	-.003	-.016	-.028	-.031	-.023	-.020	-.022	-.002	-.005	-.032	-.024	-.033

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	3.217	.548	1.846	-.041	1.417	.315
2	-.027	-.072	.047	-.180	-.245	.065
3	-.028	.017	-.002	-.025	-.013	.013
4	-.056	-.021	-.052	-.015	-.002	.021
5	.006	.045	.007	-.005	.006	.023
6	-.027	.030	-.020	.022	-.005	.011
7	-.012	-.009	-.020	-.026	-.004	-.026
8	.007	.047	.008	.019	.001	.029
9	.002	.007	-.001	-.001	.001	-.013
10	-.002	-.007	-.011	-.015	.003	-.011

N	CNREAL	CNIMAG
1	6.831	.147
2	-.062	.004
3	-.065	-.020
4	-.024	.018
5	-.020	.026
6	-.008	.014
7	-.018	.006
8	.006	.022
9	.005	.002
10	-.022	-.024

N	CMREAL	CMIMAG
1	1.516	-.125
2	-.014	.003
3	-.018	-.012
4	-.006	.012
5	-.012	.001
6	-.000	.002
7	-.004	.009
8	-.000	-.001
9	.001	.001
10	-.006	-.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.849	-.031	2.265	-.059	-10.179	.523	-2.596	-.168	8.149	-.281
2	-.012	-.074	.055	.577	-.178	-2.287	.039	-.027	-.116	-1.791
3	-.029	-.026	.141	-.062	.473	-.062	.170	-.054	.040	-.080
4	-.091	.012	-.049	.044	.019	-.136	-.062	-.000	-.019	-.247
5	-.001	-.025	.010	-.100	.206	-.020	.032	-.005	-.061	-.010
6	-.003	-.034	-.012	-.017	.035	.063	-.013	-.048	.165	.003
7	-.005	.003	.014	-.007	.012	-.006	-.001	.038	.000	.039
8	.049	-.011	.074	.014	.044	-.014	.052	-.024	.155	.017
9	.009	.016	-.005	.006	.006	-.002	-.001	.022	.014	.013
10	-.020	-.018	-.004	-.031	.033	.012	.022	.002	-.000	-.014

*** STABILITY PARAMETER

* XI = .1252 *
****

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	41	ALPHA-MCL = 2.0	PDP RUN.PT	9.20
RUN	9	ALPHA-BAR = 2.0	Q-COMP =	.32430
POINT	3	SIGMA = 180.	V-REF =	199.68

COMPUTED FREQUENCY = 15.47, K = .1217

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	43.156	355.53	17.153	354.47	9.984	.06	6.897	2.79	5.244	5.51	5.126	7.41	4.202	8.93
2	1.931	85.24	.930	217.63	.219	255.48	.069	259.31	.042	131.50	.114	52.87	.090	47.44
3	1.078	169.83	.415	268.77	.046	232.32	.067	195.58	.077	158.39	.038	179.65	.031	121.65
4	.900	70.89	.253	143.67	.140	226.93	.080	212.54	.024	188.58	.041	3.79	.041	345.10
5	.591	151.93	.112	236.39	.045	113.04	.027	104.46	.045	101.67	.004	236.80	.043	59.08
6	.127	19.47	.102	77.42	.033	206.80	.065	193.01	.042	141.57	.029	38.35	.031	327.51
7	.513	121.03	.028	230.34	.012	238.50	.025	135.48	.050	86.01	.052	241.72	.025	271.45
8	.134	256.02	.066	48.71	.041	89.42	.032	123.90	.023	39.96	.041	71.62	.010	340.50
9	.185	109.79	.023	306.16	.053	316.00	.010	27.04	.013	[illegible]	.010	58.12	.008	225.41
10	.345	213.11	.017	260.55	.042	227.52	.030	221.63	.022	[illegible]	.032	261.75	.041	234.22

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.263	9.68	1.846	358.72	1.452	12.54
2	.077	249.14	.186	284.71	.253	165.20
3	.032	148.22	.025	265.23	.019	135.03
4	.060	200.67	.054	196.05	.022	96.44
5	.045	82.36	.009	321.87	.023	75.80
6	.041	132.48	.030	132.10	.012	115.39
7	.015	218.22	.033	231.87	.026	261.32
8	.048	82.12	.021	68.35	.029	87.37
9	.007	75.88	.002	214.84	.013	272.52
10	.008	252.78	.019	233.94	.012	284.86

N	CN-MAG	PHIN
1	6.832	1.23
2	.062	176.08
3	.065	196.99
4	.030	142.93
5	.033	127.81
6	.016	119.78
7	.019	161.20
8	.023	74.03
9	.006	25.42
10	.032	227.55

N	CM-MAG	PHIM
1	1.521	355.28
2	.015	166.47
3	.022	213.50
4	.014	115.26
5	.012	172.73
6	.002	97.69
7	.010	114.86
8	.001	269.05
9	.002	49.88
10	.007	210.17

*** WALL PRESSURES, PER RADIAN ***

WALL NO.		W1		W2		W4		W6		W10	
GAP FRACTION		-.125		.000		.125		.500		1.125	
	N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
	1	2.849	359.36	2.265	358.50	10.193	177.06	2.602	183.71	8.153	358.31
	2	.075	260.68	.579	84.50	2.294	265.55	.048	325.27	1.795	266.29
	3	.039	222.15	.154	336.25	.477	352.58	.178	342.43	.090	296.51
	4	.092	172.58	.066	137.93	.138	277.89	.062	180.21	.248	265.62
	5	.025	268.78	.101	275.85	.207	354.34	.033	351.44	.062	189.45
	6	.034	265.77	.021	235.26	.072	60.66	.050	255.01	.165	1.20
	7	.006	148.89	.015	334.08	.014	332.61	.038	91.01	.039	89.32
	8	.051	347.66	.075	11.00	.046	342.16	.057	335.46	.156	6.25
	9	.014	47.41	.008	133.29	.007	338.84	.022	92.64	.019	48.20
	10	.027	223.18	.031	262.36	.035	19.75	.022	4.48	.014	268.61

*** STABILITY PARAMETE

*
* XI = .1252
*
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 43 ALPHA-MCL = 2.0 PDP RUN.PT 9.22
RUN 9 ALPHA-PAP = 2.0 Q-COMP = .32527
POINT 5 SIGMA = 180. V-REF = 199.98
COMPUTED FREQUENCY = 19.08, K = .1498

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.440	2.500	-7.689	.542	-4.521	.095	-3.240	-.146	-3.111	-.296	-3.346	-.427	-3.292	-.390
2	-.801	-4.363	.015	.201	-.019	.155	-.033	.119	-.037	.057	-.113	-.020	-.059	.026
3	.592	-.120	-.025	.018	.058	-.015	.049	-.025	.032	-.047	-.009	-.005	-.015	.034
4	-.325	-.748	.035	.018	.040	.037	.032	.014	.015	-.007	-.048	-.007	.003	-.011
5	.612	-.215	-.011	.022	.008	-.003	.024	-.017	.005	-.016	.034	.020	-.003	.004
6	.009	-.294	.014	-.045	.043	.009	.056	-.015	.095	-.119	-.001	-.002	-.022	.007
7	.141	-.205	-.069	.022	-.050	.011	-.032	-.016	-.073	-.004	-.022	-.013	-.006	-.005
8	.112	.199	-.012	.005	.012	.006	.017	-.016	-.014	-.017	-.020	-.013	-.009	-.023
9	-.063	-.193	-.078	-.011	-.062	.008	-.046	-.015	-.072	-.035	-.056	-.035	-.035	-.027
10	.203	.036	.022	-.025	.032	-.018	.050	-.029	.041	-.051	.041	-.011	.033	.021

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.640	-.375	-2.057	-.361	-1.524	-.256	16.998	-1.392	9.042	-1.280	5.370	.133	3.592	.298
2	-.035	.072	-.033	.082	-.056	.075	-.670	-2.308	-.677	-.149	-.092	-.019	-.044	.079
3	-.011	.018	-.009	.020	-.002	.018	-.297	.138	-.077	-.318	.064	-.032	.035	-.035
4	-.008	-.014	-.016	-.022	-.017	-.026	-.003	.149	-.070	.175	-.074	-.047	-.044	-.006
5	.001	.022	.002	.016	-.006	.003	.044	-.040	-.110	-.066	-.013	.035	.009	-.003
6	.009	-.016	-.012	-.002	-.018	.014	-.036	.062	.046	.090	.042	-.051	.016	-.064
7	-.005	-.008	.003	-.000	.003	-.008	.118	-.032	.013	-.016	.030	.044	.024	.055
8	-.013	-.018	-.016	-.019	-.014	-.015	-.081	-.050	-.017	-.016	-.015	-.002	-.022	-.006
9	-.033	-.032	-.024	-.035	-.028	-.029	.063	-.005	.018	-.006	.047	-.026	.029	-.005
10	.034	.019	.030	.028	.020	.020	-.012	.006	.008	.009	-.022	.032	.002	.016

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.048	.323	1.682	.413	.788	.427	.440	.315	-.347	-.174	-.120	.106
2	-.033	.074	-.034	.061	.006	.067	-.069	.007	-.042	-.083	-.200	.140
3	.006	-.000	-.003	.008	.008	.076	-.003	.052	-.007	.014	.014	.027
4	-.005	-.004	.012	-.018	.048	-.046	-.036	-.035	-.047	-.030	.004	-.010
5	.000	-.006	-.009	.014	.016	.022	.006	.040	-.007	-.000	.008	.004
6	.020	-.040	.031	-.119	.028	-.079	.015	-.036	.003	-.025	.019	-.029
7	.009	.125	-.015	.054	.001	.017	-.010	.035	-.028	.013	-.021	.010
8	-.022	-.007	-.022	-.001	-.038	-.030	-.016	.009	-.010	-.009	-.013	-.010
9	.036	-.005	.005	-.013	-.013	-.006	-.016	-.018	-.035	-.020	-.036	-.021
10	-.004	-.001	-.017	-.004	-.016	.014	.008	-.004	.004	-.018	.016	-.019

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 43 ALPHA-MCL = 2.0 PDP RUN.PT 9.22
RUN 9 ALPHA-BAR = 2.0 C-COMP = .32527
POINT 5 SIGMA = 180. V-REF = 199.98
COMPUTED FRECUENCY = 19.08, K = .1498

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.563	174.39	7.708	175.97	4.522	178.79	3.243	182.58	3.125	185.43	3.373	187.27	3.315	186.75
2	4.436	259.60	.202	85.62	.156	96.92	.123	105.31	.068	122.80	.115	190.10	.064	156.43
3	.594	348.39	.031	144.79	.059	345.83	.055	333.23	.057	304.64	.011	210.83	.038	113.68
4	.816	246.50	.039	27.00	.054	42.66	.035	23.15	.017	334.20	.049	187.89	.012	286.36
5	.649	340.63	.025	116.05	.009	338.03	.029	325.57	.016	287.24	.020	77.27	.005	133.25
6	.294	271.80	.047	267.68	.044	11.47	.058	344.76	.152	308.58	.002	252.85	.023	162.18
7	.249	334.50	.072	162.24	.051	168.13	.036	207.22	.073	183.38	.026	210.49	.008	219.99
8	.228	60.65	.013	158.16	.013	28.94	.023	316.13	.022	229.28	.024	214.29	.025	247.76
9	.201	251.58	.079	187.72	.063	172.45	.048	198.62	.080	205.54	.066	211.75	.044	218.30
10	.206	10.16	.033	312.28	.037	329.77	.058	329.51	.065	308.65	.043	344.47	.039	32.97

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.667	188.08	2.088	189.97	1.545	189.52	17.055	355.32	9.132	351.94	5.372	1.42	3.604	4.75
2	.080	115.62	.088	112.05	.093	126.85	2.404	253.81	.693	192.38	.094	191.83	.090	118.96
3	.021	122.43	.022	114.25	.019	96.51	.328	255.11	.328	256.49	.072	333.65	.050	314.53
4	.016	239.11	.028	233.79	.031	236.78	.149	91.10	.189	111.89	.087	212.26	.044	187.80
5	.022	87.70	.016	82.25	.007	152.02	.059	317.50	.128	211.09	.037	110.33	.009	342.37
6	.018	299.90	.012	189.05	.023	142.85	.072	120.12	.101	63.07	.066	309.20	.066	284.42
7	.010	236.81	.003	356.99	.009	289.25	.122	344.99	.021	308.50	.053	55.47	.060	66.05
8	.022	233.14	.025	230.19	.020	226.72	.095	211.57	.023	223.05	.015	186.22	.023	195.40
9	.046	224.06	.043	235.91	.040	225.67	.063	355.56	.019	341.97	.054	331.06	.029	349.89
10	.039	29.70	.041	43.22	.029	45.03	.013	155.52	.012	47.86	.039	125.28	.016	83.47

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.073	8.96	1.732	13.79	.896	28.45	.541	35.59	.389	206.65	.160	138.53
2	.081	114.05	.070	118.80	.067	84.76	.070	173.91	.093	243.04	.244	144.95
3	.006	357.02	.009	112.31	.076	84.30	.053	93.08	.015	115.77	.030	62.82
4	.006	218.24	.022	303.20	.066	316.58	.050	223.94	.056	212.35	.011	292.91
5	.006	274.13	.016	122.59	.027	52.76	.040	81.43	.007	182.99	.009	28.61
6	.045	296.28	.144	304.33	.083	289.38	.039	292.75	.025	276.14	.034	303.12
7	.027	69.58	.056	105.08	.017	86.36	.036	106.35	.031	154.66	.023	153.72
8	.023	196.53	.022	182.08	.048	218.71	.018	150.36	.014	219.60	.017	217.97
9	.036	317.52	.014	291.88	.014	206.55	.024	229.36	.040	209.20	.042	210.07
10	.004	189.65	.013	197.41	.023	142.07	.008	332.53	.018	284.16	.025	309.09

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 43 ALPHA-MCL = 2.0 PDP RUN.PT 9.22
RUN 9 ALPHA-BAR = 2.0 Q-COMP = .32527
POINT 5 SIGMA = 180. V-REF = 199.98
COMPUTED FREQUENCY = 19.08, K = .1498

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	42.438	-3.892	16.731	-1.822	9.891	.038	6.832	.444	5.159	.618	5.028	.840	4.080	.817
2	.131	2.055	-.692	-.350	-.073	-.175	-.011	-.040	.004	.017	.079	.081	.065	.041
3	-.879	.257	-.051	-.336	.007	-.017	-.014	-.011	-.026	.046	.006	.013	.023	.041
4	.322	.897	-.105	.158	-.114	-.083	-.075	-.020	-.020	.004	.060	-.011	.045	-.034
5	-.569	.175	-.099	-.088	-.021	.038	-.015	.014	-.004	.010	-.013	-.006	.020	.018
6	-.045	.355	.031	.136	-.001	-.060	-.040	-.049	-.075	.079	.082	-.117	.050	-.086
7	-.023	.174	.082	-.038	.081	.033	.056	.071	.082	.029	.008	.067	.007	.022
8	-.192	-.248	-.004	-.021	-.027	-.008	-.039	.010	-.008	.010	-.003	.013	-.028	-.007
9	.127	.186	.096	.005	.109	-.034	.075	.010	.078	.029	.051	.022	.022	.021
10	-.215	-.031	-.014	.033	-.054	.050	-.048	.045	-.045	.050	-.054	.007	-.051	-.007

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	3.080	.690	1.710	.187	1.403	.362
2	-.034	-.065	-.009	-.165	-.144	.066
3	.008	.035	.002	-.006	.016	.008
4	-.026	-.021	-.031	-.008	.021	.016
5	.005	.017	-.010	-.017	.014	.001
6	.006	-.020	.015	-.023	.037	-.043
7	-.005	.043	-.031	.013	-.024	.019
8	-.002	.027	.006	.011	.001	.005
9	.018	.014	-.011	.016	-.008	.008
10	-.027	-.023	-.025	-.046	-.005	-.040

N	CNREAL	CNIMAG
1	6.726	.226
2	-.050	.026
3	-.029	-.001
4	-.010	.021
5	-.027	.009
6	.008	-.015
7	.029	.037
8	-.019	-.003
9	.053	.016
10	-.043	.011

N	CMREAL	CMIMAG
1	1.499	-.146
2	-.017	.014
3	-.017	-.009
4	-.006	.016
5	-.014	.001
6	-.005	.012
7	.009	.002
8	-.005	-.005
9	.011	.001
10	-.005	.008

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.787	.086	2.198	.063	-9.911	.753	-2.575	-.111	7.948	-.091
2	-.164	.149	-.067	.797	-.375	-1.965	-.099	.211	-.274	-1.578
3	-.021	.036	.170	-.059	.412	-.120	.122	-.047	.060	-.042
4	-.031	.035	-.025	.074	.058	-.197	-.043	.004	.034	-.286
5	-.002	.009	.042	.003	.216	.012	.036	.022	-.059	-.026
6	.006	-.011	-.006	.022	.060	-.013	.001	-.047	.110	-.003
7	.007	.002	-.007	-.018	-.031	.007	-.011	.025	-.024	.014
8	-.028	-.002	-.049	-.012	.025	.024	-.006	-.015	-.003	.001
9	-.021	-.005	.008	.003	-.048	-.041	-.040	-.020	-.040	.016
10	.002	-.009	.002	-.000	.050	-.005	.027	-.014	.031	-.006

*** STABILITY PARAMETER
*
* XI = .1460 *
*
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	43	ALPHA-MCL = 2.0	PDP RUN.PT 9.22
RUN	9	ALPHA-BAR = 2.0	Q-COMP = .32527
POINT	5	SIGMA = 180.	V-REF = 199.98

COMPUTED FREQUENCY = 19.08, K = .1498

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	42.617	354.76	16.830	353.79	9.891	.22	6.847	3.72	5.196	6.84	5.098	9.48	4.161	11.32
2	2.059	86.35	.776	206.81	.189	247.26	.042	254.54	.017	77.24	.114	45.57	.077	32.42
3	.916	163.68	.340	261.32	.019	291.46	.018	218.30	.053	119.25	.015	66.53	.047	61.30
4	.954	70.24	.190	123.66	.141	216.24	.078	194.57	.021	169.86	.061	349.30	.057	322.56
5	.595	162.87	.132	221.73	.044	119.19	.021	138.08	.011	114.07	.015	204.08	.027	42.50
6	.358	97.24	.139	76.92	.060	268.78	.063	23 .64	.109	133.58	.143	305.11	.099	300.14
7	.175	97.69	.095	334.95	.087	22.48	.090	51.78	.087	19.71	.068	83.61	.023	72.42
8	.314	232.24	.021	259.10	.028	196.68	.040	165.26	.013	129.13	.013	101.37	.029	194.74
9	.225	55.72	.096	2.85	.115	342.60	.075	7.93	.094	20.43	.065	20.00	.031	43.65
10	.217	188.15	.036	113.26	.074	137.15	.066	136.81	.067	131.97	.054	172.08	.051	187.85

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.157	12.62	1.720	6.25	1.449	14.45
2	.074	242.17	.165	266.92	.158	155.50
3	.036	76.35	.007	290.85	.018	28.08
4	.035	216.97	.032	193.77	.026	36.95
5	.018	73.78	.019	239.92	.014	4.62
6	.021	286.57	.027	302.55	.056	310.98
7	.043	96.18	.033	156.41	.030	141.78
8	.027	94.76	.012	62.13	.005	79.22
9	.022	38.41	.019	125.68	.011	136.25
10	.035	221.28	.052	241.15	.040	263.23

N	CN-MAG	PHIN
1	6.730	1.92
2	.056	152.85
3	.029	182.27
4	.023	114.64
5	.028	162.32
6	.016	297.20
7	.047	52.42
8	.019	188.51
9	.056	17.21
10	.045	166.17

N	CM-MAG	PHIM
1	1.506	354.44
2	.022	139.83
3	.019	207.33
4	.017	109.78
5	.014	174.54
6	.013	113.95
7	.010	13.98
8	.007	227.69
9	.011	4.85
10	.009	124.00

*** STABILITY PARAMETER

XI = .1460

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.789	1.76	2.199	1.63	9.940	175.66	2.578	182.55	7.949	359.34
2	.222	137.74	.800	94.82	2.000	259.20	.233	115.22	1.602	260.16
3	.042	115.73	.180	340.89	.429	343.76	.131	338.80	.073	324.75
4	.047	131.23	.078	109.00	.205	286.46	.043	174.70	.288	276.70
5	.009	104.83	.042	3.77	.216	3.28	.042	31.04	.065	233.37
6	.012	298.76	.022	104.39	.061	347.99	.047	270.74	.110	358.69
7	.007	16.40	.019	247.74	.032	168.03	.027	114.55	.028	148.72
8	.028	184.60	.050	193.93	.035	43.93	.017	248.66	.004	159.94
9	.021	197.62	.008	22.07	.064	220.48	.045	206.99	.043	158.59
10	.009	261.01	.002	350.11	.051	353.95	.030	331.65	.031	348.74

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE 6

MODE 1 DATA FOR $\alpha_{MCL} = 6$ deg, $\overline{\alpha} = 0.5$ deg

σ (deg)	k	page
-135	.0716	214
"	.1215	218
"	.1497	222
-90	.0714	226
"	.1226	230
"	.1516	234
-45	.0705	238
"	.1196	242
"	.1482	246
0	.0716	250
"	.1230	254
"	.1500	258
45	.0718	262
"	.1224	266
"	.1507	270
90	.0714	274
"	.1222	278
"	.1510	282
135	.0726	286
"	.1224	290
"	.1510	294
180	.0709	298
"	.1208	302
"	.1493	306

PRECEDING PAGE BLANK NOT FILMED

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 126 ALPHA-MCL = 6.0 PDP RUN,PT 26.02
RUN 26 ALPHA-BAR = .5 Q-COMP = .32597
POINT 1 SIGMA =-135. V-REF = 200.22
COMPUTED FREQUENCY = 9.12, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.155	4.297	-7.384	1.710	-5.189	1.151	-3.961	.674	-3.760	.367	-3.816	.045	-3.652	-.097
2	.772	1.018	-.312	-1.276	-.261	-1.180	-.275	-1.206	-.331	-1.350	-.321	-1.445	-.388	-1.427
3	.419	-.444	.282	-.375	.269	-.366	.321	-.434	.339	-.475	.356	-.482	.383	-.482
4	-.166	.108	.036	-.140	.079	-.158	.072	-.161	.083	-.175	.118	-.175	.115	-.185
5	.099	-.114	-.084	-.119	-.105	-.119	-.100	-.112	-.105	-.118	-.124	-.132	-.128	-.141
6	-.051	-.142	.004	-.207	.029	-.178	.021	-.198	.018	-.233	.011	-.244	.013	-.209
7	-.141	.132	-.136	.192	-.113	.176	-.126	.198	-.138	.222	-.143	.244	-.131	.229
8	-.041	-.049	-.117	.000	-.127	-.015	-.115	-.025	-.137	-.027	-.144	-.036	-.142	-.044
9	-.054	-.015	-.019	-.011	-.015	-.011	-.027	.009	-.020	.023	-.015	.027	-.030	.018
10	.021	.093	-.033	.062	-.034	.059	-.048	.052	-.036	.048	-.030	.037	-.033	.036

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.121	-.048	-2.770	.095	-2.491	.239	8.828	-1.563	4.043	-.028	3.023	-.209	1.681	.161
2	-.353	-1.386	-.361	-1.392	-.381	-1.428	-.472	-1.628	-.293	-1.444	-.333	-1.347	-.312	-1.333
3	.376	-.469	.361	-.446	.367	-.469	.273	-.434	.302	-.446	.297	-.446	.328	-.438
4	.138	-.168	.085	-.153	.101	-.138	.099	-.241	.086	-.208	.071	-.195	.079	-.182
5	-.118	-.139	-.155	-.156	-.111	-.141	-.166	-.105	-.139	-.127	-.130	-.120	-.114	-.128
6	.026	-.234	.008	-.248	.021	-.203	-.013	-.182	-.009	-.218	-.002	-.211	.020	-.206
7	-.139	.230	-.176	.236	-.136	.229	-.104	.228	-.098	.201	-.100	.198	-.123	.186
8	-.152	-.051	-.167	-.075	-.153	-.063	-.136	-.020	-.139	-.022	-.135	-.025	-.127	-.049
9	-.036	.026	-.042	.012	-.037	.017	-.064	.054	-.064	.019	-.055	.018	-.056	.013
10	-.025	.036	-.021	.019	-.022	.030	-.039	.046	-.027	.038	-.019	.039	-.024	.034

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.638	.357	.083	.611	-.211	.514	-1.282	.936	-1.743	.455	-1.065	.839
2	-.261	-1.215	-.315	-1.504	-.295	-1.365	-.189	-1.336	-.279	-1.453	-.402	-1.438
3	.311	-.398	.383	-.487	.339	-.435	.360	-.422	.369	-.399	.374	-.498
4	.087	-.162	.132	-.185	.092	-.149	.093	-.157	.114	-.107	.117	-.168
5	-.110	-.119	-.126	-.148	-.111	-.131	-.146	-.120	-.130	-.109	-.128	-.138
6	.006	-.206	.026	-.260	.011	-.221	.026	-.246	.035	-.213	.021	-.224
7	-.103	.202	-.145	.254	-.127	.222	-.147	.250	-.124	.244	-.131	.219
8	-.135	-.038	-.161	-.068	-.138	-.063	-.155	-.080	-.142	-.083	-.143	-.080
9	-.051	.025	-.065	.032	-.053	.019	-.067	.014	-.043	.018	-.046	.027
10	-.020	.040	-.021	.041	-.026	.032	-.028	.032	-.001	.037	-.023	.040

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 126 ALPHA-MCL = 6.0 PDP RUN.PT 26.02
RUN 26 ALPHA-BAR = .5 Q-COMP = .32597
POINT 1 SIGMA =-135. V-REF = 230.22
COMPUTED FREQUENCY = 9.12, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.631	167.36	7.579	166.96	5.315	167.49	4.317	173.34	3.777	174.50	3.816	179.32	3.653	181.52
2	1.278	52.83	1.313	256.74	1.238	257.51	1.237	257.15	1.383	257.42	1.480	257.46	1.479	254.81
3	.613	312.65	.469	306.93	.454	306.28	.540	306.52	.584	305.55	.600	306.42	.616	308.45
4	.198	146.96	.144	284.42	.176	296.72	.176	294.12	.193	295.52	.212	303.99	.218	301.80
5	.152	310.93	.146	234.94	.159	228.34	.150	228.14	.159	227.56	.181	226.71	.190	227.82
6	.151	250.13	.207	271.04	.180	279.22	.199	276.05	.234	274.37	.244	272.65	.210	273.47
7	.193	137.03	.235	125.39	.209	122.63	.235	122.56	.262	121.81	.283	120.41	.264	119.67
8	.064	230.18	.117	179.92	.128	186.63	.118	192.10	.139	191.32	.149	194.11	.149	197.00
9	.056	195.56	.022	210.34	.019	214.58	.029	161.01	.031	131.05	.031	118.77	.035	148.88
10	.025	77.39	.070	118.30	.068	119.72	.071	132.96	.060	127.32	.048	129.27	.049	132.44

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.192	183.87	2.771	178.04	2.503	174.52	8.983	349.33	4.048	359.61	3.030	356.04	1.689	5.46
2	1.430	255.70	1.438	255.44	1.478	255.06	1.695	253.83	1.473	258.65	1.388	256.11	1.369	256.84
3	.621	308.73	.573	308.97	.596	308.04	.511	301.84	.533	304.09	.536	303.63	.548	306.80
4	.200	302.82	.175	299.16	.171	306.12	.261	292.32	.225	292.38	.208	289.95	.199	293.47
5	.183	229.63	.220	225.14	.179	231.78	.196	212.27	.183	222.25	.177	222.66	.171	228.40
6	.235	276.28	.248	271.86	.204	275.96	.182	265.98	.219	267.51	.211	269.40	.207	275.60
7	.269	121.04	.295	126.61	.266	120.71	.251	114.44	.223	115.96	.222	116.69	.223	123.50
8	.160	198.55	.183	204.35	.166	202.31	.108	193.69	.141	189.03	.138	190.45	.136	201.26
9	.045	144.49	.044	163.81	.040	155.27	.084	139.87	.067	163.84	.058	161.34	.057	167.06
10	.044	124.86	.028	137.58	.037	125.64	.055	123.02	.047	125.54	.043	116.42	.041	124.59

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.731	29.23	.617	82.24	.556	112.31	1.538	143.86	1.801	165.37	1.356	141.76
2	1.243	257.87	1.537	258.16	1.397	257.81	1.350	261.93	1.483	259.14	1.493	254.38
3	.575	307.96	.620	308.23	.551	307.90	.554	313.49	.543	312.75	.622	306.90
4	.184	298.05	.211	298.87	.174	301.64	.183	300.63	.156	316.83	.205	304.79
5	.162	227.38	.194	229.56	.171	229.77	.189	219.36	.169	219.93	.189	227.17
6	.206	271.68	.261	275.66	.222	272.77	.247	276.04	.215	279.37	.225	275.36
7	.227	117.12	.292	119.64	.256	119.81	.290	120.42	.274	116.97	.255	120.78
8	.140	195.68	.175	202.93	.152	204.65	.174	207.33	.165	210.30	.164	209.11
9	.057	154.32	.069	161.02	.056	160.75	.069	169.12	.047	157.21	.053	149.44
10	.044	116.63	.046	117.47	.042	129.36	.043	130.60	.037	92.11	.046	120.20

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 126 ALPHA-MCL = 6.0 PDP RUN.PT 26.02
RUN 26 ALPHA-BAR = .5 Q-COMP = .32597
POINT 1 SIGMA =-135. V-REF = 200.22
COMPUTED FREQUENCY = 9.12, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	27.983	-5.960	11.432	-1.738	8.212	-1.361	5.642	-.514	4.397	-.005	3.899	.566	3.441	.611
2	-1.244	-2.646	.020	-.168	-.072	-.168	-.036	-.127	.043	.135	.006	-.059	.093	.062
3	-.139	.010	.020	-.071	.028	-.080	.007	-.005	-.028	.076	.027	-.004	-.044	.047
4	.265	-.349	.050	-.068	-.009	-.038	.007	-.022	.003	.012	-.016	-.009	-.023	.037
5	-.265	.010	-.055	-.007	-.025	-.001	-.013	-.016	-.002	-.001	-.002	-.016	.017	.010
6	.039	-.039	-.013	-.011	-.031	-.034	-.001	-.007	-.012	.027	.014	-.016	-.002	-.012
7	.037	.097	.038	.009	.013	.022	.003	-.012	.035	-.020	-.001	.010	.003	-.007
8	-.055	.029	-.022	-.022	-.008	-.010	-.011	-.025	.001	-.011	-.017	-.032	.005	-.020
9	-.010	.069	-.045	.029	-.039	.029	-.029	.074	-.031	.001	-.050	-.005	-.023	.000
10	-.051	-.047	.006	-.024	.015	-.021	.025	-.018	.017	-.008	.009	.004	.007	-.004

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.899	.984	1.028	.360	1.426	.601
2	.164	.049	.083	-.061	-.021	-.013
3	-.016	.047	.009	.047	.007	-.029
4	-.015	.011	.029	.046	.016	-.030
5	-.028	.019	.025	.047	-.017	.003
6	.000	-.012	.027	.035	-.000	-.020
7	-.008	.020	.051	.008	.005	-.010
8	-.003	-.029	.025	-.008	.010	-.017
9	-.031	-.012	-.001	.006	-.009	.010
10	-.003	-.004	.019	.019	-.002	.010

N	CNREAL	CNIMAG
1	5.109	-.179
2	-.012	-.107
3	-.005	.007
4	.005	-.016
5	-.018	.001
6	-.001	-.008
7	.013	.004
8	-.005	-.018
9	-.029	.007
10	.008	-.007

N	CMREAL	CMIMAG
1	1.077	-.277
2	-.028	-.053
3	.000	-.006
4	.005	-.010
5	-.006	-.002
6	-.002	-.001
7	.002	.002
8	-.003	.001
9	-.002	.003
10	.001	-.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.894	.049	2.729	.281	-16.634	3.038	-3.411	.613	7.925	7.613
2	-.479	-1.639	-.375	-1.980	-.711	-2.011	-.361	-1.611	.660	-2.306
3	.268	-.579	.281	-.608	.146	-.100	.409	-.500	.345	-.155
4	-.013	-.267	.005	-.274	.130	.156	.069	-.265	.209	-.352
5	-.210	-.169	-.157	-.195	-.051	-.068	-.116	-.158	-.050	-.083
6	-.028	-.277	.086	-.191	-.021	-.247	.032	-.263	.190	-.358
7	-.234	.223	-.266	.289	-.160	.219	-.157	.213	-.192	.125
8	-.174	-.011	-.052	-.099	-.213	-.052	-.143	-.017	-.151	-.129
9	-.060	-.011	-.018	.009	-.033	-.018	-.049	.025	-.034	-.008
10	.028	.012	-.003	-.023	-.131	.064	-.069	.038	.005	.023

*** STABILITY PARAMETER

XI = .2772

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 126 ALPHA-MCL = 6.0 PDP RUN.PT 26.02
RUN 26 ALPHA-BAR = .5 Q-COMP = .32597
POINT 1 SIGMA =-135. V-REF = 200.22
COMPUTED FREQUENCY = 9.12, K = .0726

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	28.611	347.98	11.563	351.36	8.324	350.59	5.665	354.80	4.397	359.93	3.940	8.26	3.495	10.07
2	2.924	244.82	.169	276.84	.182	246.82	.132	254.00	.143	73.45	.059	275.66	.112	33.81
3	.139	175.99	.074	285.68	.085	289.28	.008	324.89	.081	110.40	.028	351.31	.065	133.11
4	.438	307.21	.085	306.75	.036	257.18	.023	289.41	.013	75.64	.019	209.94	.043	122.43
5	.266	177.93	.056	187.22	.025	182.99	.021	230.24	.002	215.47	.016	263.12	.020	30.84
6	.055	314.44	.017	219.84	.046	227.32	.007	263.27	.030	113.56	.022	311.86	.012	260.60
7	.174	68.81	.039	13.39	.026	59.99	.012	284.88	.040	329.36	.010	97.50	.008	295.24
8	.071	155.99	.031	225.15	.013	230.67	.027	245.12	.011	277.65	.036	242.04	.020	283.06
9	.070	98.14	.054	146.92	.049	143.66	.029	173.01	.031	177.41	.050	185.22	.023	178.89
10	.069	222.49	.025	284.31	.025	305.39	.031	324.31	.019	333.70	.010	26.79	.008	328.32

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.139	27.40	1.089	19.30	1.547	22.83
2	.171	16.75	.103	323.37	.023	205.80
3	.050	138.86	.048	80.34	.029	283.21
4	.019	144.78	.054	58.02	.034	298.05
5	.034	145.44	.054	61.77	.017	171.70
6	.012	271.48	.044	52.18	.020	269.34
7	.021	112.67	.052	8.37	.011	299.02
8	.029	264.93	.026	342.79	.020	301.56
9	.033	200.93	.006	99.69	.013	131.51
10	.005	236.30	.027	43.99	.010	99.98

N	CN-MAG	PHIN
1	5.112	357.99
2	.107	263.66
3	.009	127.57
4	.018	297.21
5	.018	176.01
6	.008	259.34
7	.013	15.81
8	.019	253.18
9	.030	166.06
10	.011	320.21

N	CM-MAG	PHIM
1	1.112	345.57
2	.060	242.25
3	.006	271.12
4	.011	298.47
5	.007	199.33
6	.002	214.49
7	.002	42.32
8	.003	168.27
9	.004	128.59
10	.003	279.38

*** STABILITY PARAMETER

XI = .2772

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.530		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.895	3.13	2.744	5.88	16.880	169.63	3.466	163.81	10.989	43.85
2	1.708	253.70	2.016	259.28	2.133	250.51	1.651	257.38	2.399	285.98
3	.638	294.87	.670	294.81	.177	325.56	.646	309.26	.378	335.83
4	.268	267.16	.274	271.12	.203	50.17	.274	284.62	.410	300.63
5	.269	218.78	.250	231.13	.085	232.97	.196	233.80	.097	238.72
6	.278	264.29	.210	294.11	.248	265.07	.265	277.04	.405	298.03
7	.323	136.33	.393	132.56	.271	126.15	.264	126.45	.229	146.99
8	.174	183.52	.112	242.31	.219	193.80	.144	186.93	.198	220.51
9	.361	190.71	.020	153.67	.019	262.15	.055	153.32	.035	193.18
10	.030	24.23	.023	262.18	.146	154.15	.079	151.26	.024	76.77

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 128 ALPHA-MCL = 6.0 PDP RUN.PT 26.04
RUN 26 ALPHA-AMP = .5 C-COMP = .32525
POINT 3 SIGMA =-135. V-REF = 200.00
COMPUTED FREQUENCY = 15.47, K = .1215

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.933	5.170	-7.829	.302	-5.574	.051	-4.340	-.503	-4.103	-.974	-4.147	-1.317	-3.893	-1.494
2	1.431	1.733	1.036	1.024	1.131	1.094	1.155	1.191	1.216	1.254	1.319	1.313	1.286	1.316
3	.095	-.563	-.074	-.164	-.110	-.105	-.063	-.172	-.061	-.158	-.072	-.173	-.058	-.173
4	.016	.080	-.143	.015	-.104	.024	-.160	.009	-.161	.032	-.152	.053	-.162	.047
5	-.097	-.278	-.017	-.044	-.010	-.063	-.032	-.072	-.023	-.040	-.034	-.045	-.057	-.036
6	-.030	.082	-.029	-.065	-.014	-.077	-.009	-.062	-.022	-.078	-.018	-.076	-.002	-.090
7	.182	-.065	.122	.029	.128	.037	.116	.040	.172	.044	.147	.052	.128	.064
8	-.015	-.004	.081	-.032	.079	-.040	.039	-.031	.101	-.030	.088	-.026	.085	-.024
9	-.052	.039	-.053	.022	-.049	.019	-.037	.015	-.025	.020	-.047	.022	-.051	.014
10	-.059	-.029	-.062	.007	-.058	.001	-.061	.003	-.066	.012	-.071	-.000	-.065	-.002

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.377	-1.437	-2.949	-1.283	-2.686	-1.084	9.075	-3.187	4.336	-1.083	2.916	-1.390	1.544	-.987
2	1.221	1.321	1.219	1.377	1.244	1.326	1.087	.843	1.313	1.120	1.256	1.177	1.227	1.242
3	-.073	-.186	-.067	-.185	-.085	-.195	-.114	-.146	-.117	-.143	-.108	-.146	-.089	-.157
4	-.171	.042	-.170	.038	-.171	.043	-.110	.045	-.123	.064	-.143	.056	-.149	.031
5	-.042	-.038	-.039	-.027	-.047	-.038	.049	-.005	.007	-.031	-.007	-.030	-.004	-.030
6	.001	-.066	-.007	-.052	-.004	-.056	-.026	-.012	-.034	-.035	-.024	-.039	-.014	-.046
7	.113	.061	.109	.056	.109	.053	.052	.048	.085	.045	.086	.040	.083	.059
8	.023	-.027	.076	-.043	.068	-.035	.064	-.048	.086	-.046	.087	-.037	.097	-.016
9	-.043	.012	-.039	.013	-.046	.013	-.002	-.009	-.016	.004	-.010	.011	-.015	.009
10	-.042	-.003	-.055	.003	-.054	-.007	-.019	.025	-.027	.018	-.035	.020	-.047	.011

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.402	-.643	-.146	-.599	-.425	-.537	-1.491	-.129	-1.995	-.411	-1.168	-.401
2	1.147	1.167	1.384	1.471	1.212	1.284	1.419	1.473	1.162	1.215	1.156	1.367
3	-.075	-.150	-.111	-.193	-.105	-.194	-.101	-.171	-.103	-.166	-.091	-.200
4	-.148	.041	-.182	.040	-.161	.046	-.195	.025	-.183	.037	-.161	.039
5	-.016	-.024	-.037	-.027	-.030	-.028	-.027	.003	-.044	-.038	-.038	-.024
6	-.013	-.040	-.017	-.043	-.010	-.045	-.004	-.045	-.006	-.051	.017	-.064
7	.076	.032	.098	.042	.075	.042	.076	.035	.085	.035	.098	.051
8	.047	-.039	.086	-.041	.073	-.034	.077	-.079	.072	-.012	.069	-.030
9	-.015	.010	-.016	.015	-.023	.001	-.027	.011	-.034	.024	-.031	.018
10	-.077	.017	-.052	.010	-.044	.007	-.054	.006	-.064	.003	-.057	.001

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 128 ALPHA-MCL = 6.0 POP RUN.PT 26.03
RUN 26 ALPHA-BAR = .5 Q-COMP = .32555
POINT 3 SIGMA =-135. V-REF = 200.00
COMPUTED FRECUENCY = 15.47, K = .1215

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	23.564	165.44	7.870	174.15	5.574	179.47	4.369	186.62	4.217	193.36	4.351	197.61	4.170	200.99
2	2.245	50.42	1.457	44.65	1.574	44.04	1.659	45.87	1.747	45.87	1.861	44.88	1.840	45.67
3	.571	279.59	.183	245.64	.152	223.49	.183	250.01	.169	248.97	.188	247.40	.183	251.60
4	.082	78.76	.144	173.96	.107	167.26	.160	176.94	.165	168.72	.161	160.86	.169	163.91
5	.291	252.57	.047	249.03	.061	260.36	.039	214.41	.047	235.05	.056	233.43	.068	212.40
6	.122	137.55	.071	245.45	.074	258.78	.063	261.61	.081	254.55	.078	256.38	.090	268.91
7	.193	340.39	.126	13.33	.131	13.43	.133	19.14	.139	18.40	.151	20.20	.143	26.51
8	.015	196.40	.087	338.16	.089	333.35	.094	340.94	.106	343.30	.092	343.62	.088	344.36
9	.064	143.21	.057	157.99	.052	158.15	.040	158.15	.032	142.68	.052	154.95	.053	164.79
10	.066	205.94	.062	173.79	.058	178.96	.061	177.62	.067	169.77	.071	180.24	.065	181.84

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.659	202.62	3.216	203.52	2.896	201.98	9.619	340.65	5.463	345.98	3.230	334.52	1.832	327.42
2	1.799	47.26	1.839	48.47	1.818	46.82	1.376	37.77	1.725	43.46	1.722	43.15	1.746	45.37
3	.199	248.58	.196	250.31	.212	246.44	.165	231.87	.185	230.78	.181	233.36	.180	240.26
4	.176	166.17	.175	167.32	.176	165.94	.119	157.78	.143	153.32	.153	158.65	.152	168.24
5	.056	221.93	.049	214.95	.060	219.03	.049	353.85	.032	286.64	.031	256.92	.030	262.25
6	.066	271.27	.052	261.91	.057	265.62	.029	204.31	.049	226.38	.046	238.04	.048	252.64
7	.128	28.36	.123	26.92	.116	26.95	.071	42.93	.095	27.71	.095	24.83	.101	35.55
8	.087	342.04	.087	330.58	.078	331.94	.097	330.56	.097	331.98	.091	336.15	.098	350.36
9	.044	163.77	.041	161.95	.048	164.13	.010	357.27	.017	165.41	.015	131.85	.018	150.01
10	.062	182.73	.055	176.70	.054	182.66	.031	127.89	.033	146.29	.040	149.91	.048	166.91

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.808	307.54	.607	256.03	.685	231.62	1.497	184.95	2.037	191.63	1.235	198.94
2	1.636	45.50	2.005	46.34	1.765	46.65	2.008	45.03	1.682	46.28	1.791	49.79
3	.173	240.55	.222	240.19	.221	241.51	.199	239.48	.196	238.14	.220	245.60
4	.154	164.55	.187	167.58	.168	163.99	.197	172.67	.192	168.87	.165	166.52
5	.028	236.16	.041	222.12	.041	223.03	.027	173.70	.039	220.78	.045	211.79
6	.042	251.76	.045	253.44	.046	257.88	.045	264.35	.051	263.71	.047	291.69
7	.082	22.55	.107	23.33	.086	29.25	.102	20.20	.093	21.90	.104	29.58
8	.078	329.40	.095	334.35	.081	335.30	.086	333.29	.073	350.29	.075	336.41
9	.018	147.37	.022	137.44	.023	176.61	.029	157.66	.041	144.70	.036	149.54
10	.039	161.39	.053	168.75	.045	171.33	.055	173.21	.064	177.55	.057	178.84

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 128 ALPHA-MCL = 6.0 PDP RUN.PT 26.03
RUN 26 ALPHA-RAD = .5 C-COMP = .32525
POINT 3 SIGMA =-135. V-REF = 200.00
COMPUTED FRECUENCY = 15.47, K = .1215

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	29.978	-8.357	12.164	-1.384	8.490	-1.441	5.884	-.483	4.595	.334	4.000	.728	3.468	.957
2	-.343	-.886	.076	.096	.125	.084	.071	.052	-.073	-.067	.066	.136	-.074	-.033
3	-.209	.417	-.042	.021	.002	-.041	-.027	.015	-.024	[illegible]	-.038	-.019	-.048	-.021
4	-.126	-.035	.015	.049	-.038	.032	.011	.022	.013	.039	-.030	-.013	.001	-.001
5	.136	.273	.026	.013	.003	.031	.028	-.008	.012	.016	.004	.018	.027	.008
6	.044	-.094	-.004	.029	-.010	.034	-.005	.016	.003	.039	.005	.033	-.008	.044
7	-.100	.113	-.037	.056	-.041	.039	-.034	.019	-.056	-.012	-.044	-.010	-.053	-.022
8	.029	-.043	.005	-.083	.004	.003	.008	.014	-.035	-.039	-.003	-.015	-.011	-.010
9	.049	-.048	.037	-.017	.038	-.009	.022	-.006	.011	-.010	.031	-.007	.028	-.013
10	.040	.054	.035	.012	.023	.019	.014	.008	.029	.001	.019	.011	.021	.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.986	1.278	.954	.972	1.517	.683
2	.138	.099	-.057	-.162	-.088	.041
3	-.028	.014	-.036	.018	-.006	-.006
4	-.024	-.017	-.019	-.001	.010	-.004
5	.015	.041	-.005	-.011	.008	.014
6	-.036	.022	.002	.001	.022	.013
7	-.017	-.026	-.023	-.021	-.013	-.002
8	-.076	-.012	-.004	.071	.000	.007
9	.016	-.002	.005	.011	.014	.005
10	.079	.009	-.039	-.000	-.003	.004

N	CNREAL	CNIMAG
1	5.296	-.092
2	.029	.002
3	-.032	.010
4	-.010	.036
5	.017	.022
6	.002	.023
7	-.039	-.007
8	-.003	-.004
9	.023	-.007
10	.017	.009

N	CMREAL	CMIMAG
1	1.131	-.342
2	.009	-.009
3	-.003	.006
4	-.002	.004
5	.003	.004
6	-.000	-.003
7	-.004	.004
8	.002	-.001
9	.002	-.002
10	.003	.001

*** STABILITY PARAMETER

* XI = .3423 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.175		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.425	-1.667	1.940	-1.244	-17.226	2.163	-3.848	-.837	7.660	6.057
2	1.732	1.616	2.011	1.425	.837	1.133	1.449	1.480	1.916	1.073
3	-.134	-.056	-.060	-.422	-.388	.035	-.076	-.237	-.142	-.022
4	-.146	.078	-.236	-.051	.025	.163	-.172	.007	-.153	-.050
5	-.041	-.080	-.121	-.098	-.058	-.014	-.002	-.056	.198	.003
6	-.041	-.073	-.025	.044	.029	-.126	-.003	-.057	-.087	.016
7	.117	.057	.195	.091	.232	.057	.173	.054	.015	.052
8	.100	-.068	.182	-.049	.112	-.037	.175	-.041	.126	-.123
9	-.036	.017	-.046	.018	-.088	-.008	-.048	.030	-.009	.012
10	-.053	.022	-.061	.013	-.096	-.001	-.074	.010	-.046	.067

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 128 ALPHA-MCL = 6.0 POP RUN.PT 26.04
RUN 26 ALPHA-RAR = .5 C-COMP = .32525
POINT 3 SIGMA =-135. V-REF = 200.00
COMPUTED FREQUENCY = 15.47, K = .1215

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	33.159	343.91	12.309	351.19	8.612	350.37	5.904	355.30	4.607	4.16	4.766	10.31	3.597	15.42
2	.952	249.86	.293	19.38	.150	33.85	.088	35.94	.112	231.22	.152	64.49	.081	203.92
3	.467	116.64	.047	153.14	.041	272.76	.031	150.11	.025	162.62	.043	206.93	.052	203.37
4	.131	195.55	.052	72.56	.050	140.04	.025	64.39	.016	34.09	.033	203.00	.001	333.19
5	.305	63.45	.029	26.77	.031	83.79	.029	344.14	.023	53.50	.018	78.88	.028	16.79
6	.114	304.03	.029	98.21	.035	106.48	.017	107.74	.039	77.52	.033	80.41	.045	100.35
7	.173	138.95	.040	157.78	.042	167.18	.038	150.93	.057	192.44	.045	192.80	.057	202.37
8	.178	336.34	.014	289.67	.005	37.94	.016	61.98	.035	194.79	.015	259.40	.015	220.99
9	.069	315.88	.041	334.89	.039	348.24	.023	344.44	.015	317.00	.032	346.69	.031	336.11
10	.067	53.19	.036	18.39	.030	39.47	.016	31.10	.029	1.09	.021	30.29	.023	22.42

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.278	34.12	1.292	42.45	1.664	24.23
2	.221	26.56	.171	250.54	.098	154.88
3	.332	152.98	.041	153.28	.008	223.75
4	.030	215.06	.018	184.11	.011	337.18
5	.043	69.77	.012	244.37	.016	59.25
6	.022	105.41	.002	24.75	.025	30.75
7	.031	236.74	.031	222.16	.014	186.43
8	.013	244.10	.031	97.07	.007	89.17
9	.016	354.63	.012	65.73	.015	20.93
10	.012	50.59	.009	182.75	.005	128.34

N	CN-MAG	PHIN
1	5.296	359.00
2	.029	4.34
3	.034	163.09
4	.011	150.90
5	.028	51.63
6	.023	84.14
7	.039	182.49
8	.005	234.97
9	.024	342.61
10	.019	28.90

N	CM-MAG	PHIM
1	1.182	343.17
2	.012	315.77
3	.007	114.51
4	.004	113.84
5	.005	54.39
6	.000	252.32
7	.006	129.81
8	.002	336.57
9	.003	318.97
10	.003	27.15

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.720	284.32	2.304	327.34	17.362	172.84	3.938	192.27	9.765	38.34
2	2.369	43.01	2.464	35.32	1.439	51.94	2.071	45.59	2.196	29.24
3	.289	242.45	.426	261.85	.390	174.88	.217	249.46	.144	188.91
4	.166	152.00	.241	192.08	.165	81.44	.173	177.75	.161	197.96
5	.090	242.51	.156	218.88	.059	193.70	.056	267.94	.198	.74
6	.052	218.78	.051	121.05	.129	283.16	.061	253.51	.087	168.97
7	.128	24.51	.215	24.92	.239	13.81	.182	17.32	.126	24.41
8	.120	325.89	.188	344.99	.118	341.72	.142	343.31	.176	315.54
9	.041	151.79	.049	158.85	.088	183.52	.057	147.98	.016	127.31
10	.057	157.71	.063	168.03	.096	180.34	.074	171.98	.081	124.58

*** STABILITY PARAMETER

*
* XI = .3423 *
*
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 130 ALPHA-MCL = 6.0 PDP RUN.PT 26.06
RUN 26 ALPHA-DAP = .5 C-COMP = .32596
POINT 5 SIGMA =-135. V-REF = 230.72
COMPUTED FREQUENCY = 19.78, K = .1497

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-10.472	5.936	-6.368	.340	-4.077	.021	-2.810	-.586	-2.475	-1.114	-2.401	-1.495	-2.155	-1.655
2	1.296	1.149	-.535	.158	-.481	.215	-.467	.251	-.527	.246	-.583	.216	-.581	.226
3	-.046	-.351	.186	.016	.182	.045	.231	-.001	.245	.037	.274	.057	.280	.060
4	.169	.147	-.227	.098	-.176	.087	-.215	.062	-.235	.024	-.235	.019	-.215	.010
5	-.077	-.271	.057	-.019	.052	-.015	.035	-.023	.032	-.018	.037	-.017	.010	-.012
6	-.070	.099	.034	-.027	.032	-.023	.031	-.014	.039	-.016	.036	-.015	.036	-.015
7	.013	-.016	.034	-.006	.021	-.006	.036	-.007	.033	-.009	.034	-.004	.031	.002
8	-.034	.026	-.055	-.036	-.043	-.017	-.039	-.022	-.045	-.027	-.037	-.020	-.041	-.022
9	-.033	-.049	-.008	-.026	-.005	-.023	.034	-.023	.003	-.029	.007	-.034	.006	-.040
10	.012	-.036	.011	-.014	.002	-.009	.007	-.007	.003	-.009	.009	-.015	.008	-.024

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.676	-1.534	-1.175	-1.379	-.938	-1.190	10.490	-3.598	6.143	-1.268	4.518	-1.535	3.173	-1.058
2	-.577	.225	-.589	.224	-.573	.227	-.792	.014	-.595	.177	-.561	.251	-.530	.242
3	.253	.067	.251	.073	.247	.069	.230	-.019	.245	.020	.235	.025	.212	.048
4	-.201	-.012	-.205	-.039	-.201	-.041	-.235	.089	-.256	.055	-.242	.030	-.223	-.029
5	.010	-.018	.014	-.015	.016	-.028	.016	.019	.021	-.005	.021	-.009	.027	-.010
6	.027	-.014	.027	-.011	.030	-.015	-.003	-.017	.013	-.009	.016	-.008	.024	.002
7	.023	.005	.028	-.011	.018	-.006	.019	-.045	.022	-.034	.028	-.034	.030	-.021
8	-.038	-.015	-.026	-.018	-.029	-.013	.012	-.024	-.011	-.022	-.019	-.018	-.019	-.031
9	.036	-.037	.015	-.036	.007	-.040	.028	.012	.023	-.008	.022	-.013	.026	-.011
10	.013	-.023	.011	-.015	.018	-.021	-.013	-.004	-.013	-.005	-.005	-.017	.009	-.020

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.339	-.676	1.664	-.534	1.174	-.547	.328	-.056	-.391	-.282	.578	-.452
2	-.432	.221	-.566	.275	-.523	.207	-.416	.224	-.615	.162	-.583	.236
3	.270	.035	.246	.055	.233	.054	.244	.009	.221	.097	.214	.072
4	-.212	-.003	-.243	-.046	-.203	-.040	-.219	-.069	-.185	-.047	-.180	-.061
5	.023	-.019	.037	-.020	.029	-.023	.033	-.070	.037	-.020	.022	-.016
6	.015	-.003	.027	-.007	.017	-.017	.017	.001	.021	-.011	.024	-.011
7	.030	-.031	.028	-.009	.015	-.017	.020	-.019	.017	-.010	.020	-.014
8	-.034	-.014	-.031	-.016	-.021	-.003	-.031	-.018	-.030	-.007	-.029	-.015
9	.015	-.020	.021	-.029	.017	-.024	.013	-.033	.015	-.036	.016	-.036
10	[illegible]	-.017	.016	-.020	.017	-.019	.021	-.014	.025	-.019	.021	-.013

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 130 ALPHA-MCL = 6.0 PDP RUN.PT 26.06
RUN 26 ALPHA-PAR = .5 C-COMP = .32596
POINT 5 SIGMA =-135. V-REF = 207.22
COMPUTED FREQUENCY = 19.78, K = .1497

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	20.357	163.05	6.423	172.49	4.077	179.71	2.871	191.78	2.714	204.23	2.828	211.90	2.717	217.52
2	1.731	41.54	.558	163.57	.527	155.94	.530	151.75	.582	154.96	.622	159.72	.623	158.77
3	.354	262.57	.187	4.89	.187	13.94	.231	359.82	.243	8.69	.280	11.83	.286	12.08
4	.224	41.15	.241	156.10	.195	154.71	.219	163.66	.236	174.10	.236	175.39	.216	177.36
5	.282	254.17	.060	341.33	.054	343.72	.043	323.11	.037	330.25	.037	332.59	.015	309.70
6	.099	90.27	.043	320.84	.039	324.79	.034	335.52	.042	337.25	.039	336.70	.039	337.82
7	.056	342.80	.034	350.02	.022	344.41	.037	348.44	.037	346.11	.034	353.92	.031	3.26
8	.097	164.66	.056	186.17	.047	201.71	.045	209.55	.052	210.62	.042	208.02	.046	207.84
9	.059	235.89	.027	252.73	.023	257.80	.024	280.90	.029	274.95	.035	280.78	.040	277.91
10	.036	288.58	.019	306.93	.009	285.27	.009	315.46	.003	293.82	.012	300.34	.025	289.18

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.272	222.46	1.812	229.57	1.515	231.75	11.087	341.12	6.277	348.35	4.772	341.24	3.345	341.57
2	.613	158.50	.629	159.18	.616	158.35	.792	175.99	.621	163.41	.615	155.87	.583	155.43
3	.267	14.61	.261	16.16	.256	15.58	.280	356.11	.246	4.68	.238	6.14	.217	12.71
4	.201	183.33	.209	190.66	.205	191.42	.251	159.14	.262	167.86	.244	172.86	.225	187.46
5	.020	299.27	.021	311.59	.033	299.12	.025	49.44	.022	345.75	.023	335.38	.029	340.16
6	.040	338.97	.026	333.92	.034	332.77	.017	261.26	.016	326.21	.018	333.05	.024	4.60
7	.024	11.76	.030	338.29	.019	340.52	.049	292.63	.040	303.82	.044	309.82	.037	325.21
8	.041	202.72	.032	214.47	.032	203.47	.026	296.61	.024	242.56	.026	223.01	.036	238.51
9	.036	279.42	.039	292.41	.040	279.55	.030	23.09	.024	341.76	.026	330.21	.029	336.38
10	.026	300.58	.018	306.91	.028	309.58	.014	195.65	.011	204.91	.018	254.32	.022	292.70

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.054	340.78	1.764	340.65	1.295	335.32	.332	357.39	.482	215.83	.734	321.97
2	.571	155.35	.639	156.50	.563	158.39	.472	151.73	.637	165.24	.629	157.99
3	.273	9.85	.255	14.83	.210	14.89	.260	20.32	.241	23.62	.225	18.61
4	.212	180.92	.248	190.71	.207	191.16	.230	197.49	.191	194.22	.190	198.76
5	.030	319.93	.038	327.92	.037	320.70	.045	317.81	.042	331.46	.027	324.38
6	.015	347.29	.024	343.90	.021	321.79	.012	2.64	.024	333.90	.026	334.98
7	.036	303.42	.041	314.24	.024	309.24	.028	316.11	.020	329.28	.024	326.00
8	.028	210.79	.035	208.11	.022	200.81	.036	209.34	.031	192.56	.032	207.71
9	.025	308.91	.036	305.75	.029	305.27	.036	291.31	.039	293.15	.040	294.26
10	.015	305.22	.026	308.53	.025	314.00	.025	327.18	.032	324.66	.025	328.39

ORIGINAL PAGE IS
OF POOR QUALITY

SEMI PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 130 ALPHA-MCL = 6.0 PER RUN.PT 26.06
RUN 26 ALPHA-RAD = .5 C-CHMP = .32596
POINT 5 SIGMA =-135. V-REF = [illegible].22
COMPUTED FREQUENCY = 19.38, K = .1497

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	29.963	-9.524	12.516	-2.178	8.595	-1.555	5.984	-.471	4.414	.437	4.765	.910	3.329	1.108
2	-2.018	-1.134	-.262	.019	-.080	.037	-.263	-.079	.045	-.225	-.003	.039	.056	-.018
3	.376	.322	.050	.074	.055	-.020	-.019	.049	-.045	-.033	-.027	.038	-.077	-.006
4	-.403	-.058	-.036	-.042	-.066	-.057	-.013	-.091	.023	-.028	-.008	-.065	.012	-.050
5	.003	.290	-.036	.014	-.031	.036	-.009	.013	-.039	-.031	-.009	-.003	.019	-.012
6	-.022	-.116	-.020	.019	-.016	.015	-.037	.016	-.024	.013	-.013	.009	-.020	.002
7	-.074	-.028	-.011	-.028	.007	-.029	-.006	-.014	-.017	-.020	-.006	-.025	-.016	-.020
8	.106	-.049	.044	-.014	.024	-.001	.023	-.009	.021	.012	.006	.033	.020	.014
9	.041	.061	.031	.018	.027	.017	.022	.012	.013	.009	.014	.005	.011	.016
10	-.035	.032	-.027	.010	-.007	-.009	.032	-.014	.035	-.005	.007	-.005	.009	.006

X =	.774		.867		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.304	1.473	.784	1.797	1.516	.738
2	.174	-.061	-.027	-.362	-.011	.008
3	-.014	.023	-.030	.024	-.033	.007
4	-.018	-.057	.029	-.008	.020	-.021
5	.023	-.013	.023	-.005	.006	.013
6	-.025	.015	-.002	.021	-.006	.004
7	-.024	-.024	-.011	.001	.002	-.007
8	.006	-.002	-.004	.011	.001	-.002
9	.007	.004	.003	.001	.010	.007
10	.006	.009	.015	-.004	.004	.008

N	CNREAL	CNIMAG
1	5.343	-.059
2	-.058	-.034
3	-.008	.018
4	-.019	-.048
5	.001	.019
6	-.015	.006
7	-.008	-.019
8	.018	.005
9	.015	.010
10	.002	-.009

N	CMREAL	CMIMAG
1	1.163	-.384
2	-.042	-.015
3	.011	.005
4	-.010	-.003
5	-.003	.006
6	-.000	-.001
7	-.001	-.002
8	.004	-.002
9	.003	.002
10	-.002	-.001

*** STABILITY PARAMETER

* XI = .3841 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.0[illegible]		.175		.530		1.175	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.552	-1.764	4.019	-1.302	-15.119	2.369	-1.929	-.953	10.256	6.484
2	-.661	.422	-.378	.465	-.799	-.074	-.069	.269	-.039	-.367
3	.004	.076	.226	.062	.135	.171	.285	.031	-.101	-.014
4	-.031	.122	-.245	.186	-.015	.275	-.264	.081	-.284	-.294
5	.037	.022	.105	.012	.071	.044	.034	-.025	.185	-.122
6	[illegible]	[illegible]	-.075	.043	.050	-.015	.025	-.017	.031	-.008
7	.041	-.018	.072	-.021	.070	.014	.071	-.005	.039	-.078
8	-.022	-.027	-.010	-.065	-.135	-.074	-.047	-.027	-.024	-.057
9	[illegible]	[illegible]	.035	.012	-.017	-.033	.003	-.032	.044	-.008
10	.035	-.013	-.023	-.029	.012	-.059	.005	-.017	-.007	.050

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 133 ALPHA-MCL = 6.0 PRP RUN.PT 26.06
RUN 26 ALPHA-BAR = .5 C-COMP = .32596
POINT 5 SIGMA =-135. V-REF = 230.22
COMPUTED FREQUENCY = 19.38, K = .1497

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.162		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	31.440	342.37	12.697	350.44	8.735	349.74	6.032	355.49	4.436	5.66	4.166	12.62	3.508	18.41
2	2.375	238.51	.063	161.27	.088	155.43	.064	187.87	.051	330.84	.039	94.00	.061	342.30
3	.465	45.54	.060	4.03	.058	340.19	.052	111.18	.045	183.46	.028	163.75	.077	184.39
4	.407	188.18	.056	229.54	.085	218.54	.092	261.78	.036	309.43	.065	262.86	.052	283.63
5	.304	72.22	.038	158.86	.032	169.66	.016	125.93	.009	184.82	.003	262.93	.022	320.31
6	.116	268.97	.028	137.79	.022	138.18	.017	112.52	.027	151.67	.016	145.52	.020	175.01
7	.045	219.52	.030	247.97	.029	283.90	.015	248.25	.023	227.78	.026	256.97	.025	232.34
8	.117	334.93	.046	342.48	.024	358.13	.022	336.01	.024	30.43	.007	27.58	.024	34.19
9	.086	44.87	.036	30.52	.029	20.27	.025	28.56	.016	34.60	.015	19.40	.020	54.74
10	.041	128.37	.022	154.81	.011	228.14	.014	277.59	.007	318.25	.009	325.31	.011	36.08

X =	.774		.860		.910							
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	N	CN-MAG	PHIN	N	CM-MAG	PHIM
1	2.490	36.42	1.349	54.44	1.686	25.95	1	5.343	359.37	1	1.225	341.72
2	.154	359.61	.067	245.98	.013	141.09	2	.067	210.20	2	.044	199.51
3	.027	121.24	.039	141.36	.034	174.76	3	.023	113.62	3	.012	22.69
4	.060	252.62	.021	336.98	.029	314.58	4	.052	248.85	4	.011	197.66
5	.027	331.85	.023	348.81	.014	63.15	5	.010	82.82	5	.006	117.56
6	.029	149.28	.002	154.29	.007	144.94	6	.016	156.71	6	.001	240.62
7	.024	261.69	.011	174.66	.007	285.62	7	.021	247.71	7	.002	251.59
8	.007	344.54	.012	108.44	.002	284.27	8	.018	1.26	8	.004	338.52
9	.008	30.53	.001	74.20	.010	18.65	9	.019	32.39	9	.003	31.45
10	.012	48.14	.015	346.00	.009	65.88	10	.002	359.36	10	.002	197.64

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.530		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.103	325.34	4.225	342.65	15.304	171.39	2.151	206.29	11.965	32.81
2	.785	147.45	.599	129.11	.799	130.31	.721	158.09	.369	263.89
3	.206	7.32	.303	41.87	.219	50.52	.286	6.28	.102	188.03
4	.352	159.75	.308	142.73	.206	94.20	.277	162.94	.409	225.96
5	.037	3.09	.106	6.36	.083	31.67	.042	324.19	.221	326.54
6	.035	314.99	.038	142.62	.053	343.49	.028	335.21	.032	345.91
7	.050	325.35	.075	344.11	.071	11.32	.031	350.17	.078	270.19
8	.036	232.92	.061	260.62	.114	197.44	.054	209.41	.062	247.39
9	.021	344.98	.037	19.44	.084	260.95	.032	275.31	.045	349.49
10	.014	294.36	.037	231.28	.060	281.71	.018	286.76	.051	98.15

*** STABILITY PARAMETER

XI = .3841

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 108 ALPHA-MCL = 6.0 PRP RUN PT 23.25
RUN 23 ALPHA-PAR = .5 C-COMP = .32424
POINT 1 SIGMA = -90. V-REF = 199.71
COMPUTED FREQUENCY = 9.07, K = .3714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.852	9.926	-5.717	2.418	-3.550	1.322	-7.298	.575	-1.752	-.137	-1.558	-.716	-1.299	-1.003
2	1.439	.452	-.464	-.530	-.446	-.487	-.397	-.497	-.465	-.543	-.520	-.544	-.536	-.540
3	.495	-.057	1.247	.407	1.279	.451	1.272	.474	1.354	.475	1.402	.490	1.398	.496
4	.175	-.031	-.207	.040	-.159	-.026	-.209	-.008	-.212	-.024	-.236	-.017	-.223	-.019
5	-.391	-.044	-.027	.093	-.019	.084	.004	.098	-.003	.102	.005	.100	.004	.107
6	.157	.115	.210	.077	.208	-.009	.211	.029	.214	.041	.210	.043	.207	.037
7	[illegible]	-.156	.010	-.190	.004	-.185	.003	-.169	-.032	-.178	.003	-.161	-.020	-.144
8	-.113	-.054	-.138	-.071	-.108	-.035	-.099	-.009	-.105	.006	-.104	.033	-.089	.035
9	.041	-.066	.044	-.110	.038	-.076	.043	-.070	.050	-.073	.037	-.056	.045	-.049
10	.023	.033	-.015	.070	-.009	.049	-.017	.075	-.031	.022	-.035	.022	-.034	.011

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.238	-.971	-.581	-.642	-.419	-.767	9.237	-3.991	4.701	-1.287	3.889	-1.504	2.811	-.884
2	-.547	-.537	-.551	-.541	-.546	-.527	-.862	-.639	-.485	-.578	-.521	-.505	-.496	-.508
3	1.369	.496	1.395	.515	1.401	.482	1.244	.279	1.306	.393	1.316	.377	1.308	.415
4	-.219	-.030	-.219	-.031	-.214	-.019	-.177	.073	-.201	-.039	-.208	-.022	-.203	-.033
5	.004	.113	-.005	.100	.008	.104	.013	.115	.009	.085	.005	.093	-.000	.105
6	.194	.051	.197	.052	.197	.047	.249	.047	.224	.049	.209	.051	.190	.066
7	-.034	-.155	-.052	-.152	-.068	-.139	.058	-.124	.005	-.160	-.011	-.160	-.007	-.148
8	-.101	.049	-.101	.065	-.108	.061	-.073	.072	-.083	.045	-.086	.035	-.093	.023
9	.039	-.045	.038	-.048	.020	-.054	-.069	-.050	-.002	-.063	.007	-.072	.020	-.066
10	-.041	.058	-.037	.011	-.043	.011	-.046	.015	-.025	.007	-.021	.015	-.023	.009

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.862-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.819	-.384	1.702	[illegible]	1.281	-.702	.622	.611	.193	.143	.859	.656
2	-.423	-.467	-.549	-.574	-.487	-.514	-.452	-.567	-.561	-.583	-.559	-.505
3	1.272	.377	1.496	.493	1.323	.420	1.447	.472	1.347	.477	1.354	.414
4	-.187	-.023	-.230	-.023	-.213	-.007	-.227	-.024	-.186	.019	-.207	-.046
5	.011	.091	.007	.176	.015	.093	.018	.121	-.000	.150	.027	.084
6	.156	.037	.214	.146	.167	.044	.197	.039	.173	.061	.188	.060
7	[illegible]	-.153	-.055	-.104	-.053	-.149	-.072	-.128	-.077	-.169	-.060	-.157
[illegible]	[illegible]	.047	-.111	.051	-.104	.050	-.108	.056	-.095	.062	-.114	.058
[illegible]	[illegible]	[illegible]	.012	-.071	.007	-.054	[illegible]	-.059	.010	-.053	.021	-.051
[illegible]	[illegible]	[illegible]	-.027	.076	-.011	.001	-.011	.009	-.022	.008	-.021	.012

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 128 ALPHA-MCL = 6.0 PDP RUN.PT 23.05
RUN 23 ALPHA-BAR = .5 Q-COMP = .32424
POINT 1 SIGMA = -90. V-REF = 199.71
COMPUTED FRECUENCY = 9.27, K = .0714

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.926	153.47	6.201	157.05	3.768	159.58	2.357	167.12	1.757	184.47	1.714	204.67	1.641	217.67
2	1.556	16.90	.743	231.78	.557	227.30	.628	230.78	.715	229.41	.753	226.31	.761	225.22
3	.428	353.35	1.312	18.07	1.357	19.41	1.344	18.84	1.435	19.32	1.485	19.28	1.483	19.53
4	.198	350.89	.211	169.02	.161	189.19	.209	182.06	.213	186.54	.236	184.01	.224	184.93
5	.384	186.62	.095	102.20	.086	102.82	.088	87.13	.103	91.79	.100	87.01	.107	87.73
6	.194	36.23	.211	1.95	.208	357.64	.213	7.72	.218	10.96	.215	11.69	.210	10.11
7	.159	258.58	.191	272.91	.165	271.33	.169	270.89	.173	269.37	.161	271.03	.145	262.28
8	.123	206.29	.111	191.12	.113	197.87	.099	184.94	.107	176.80	.109	162.26	.095	158.59
9	.095	295.33	.119	291.67	.085	296.64	.082	301.48	.088	304.39	.067	303.69	.067	312.45
10	.037	52.78	.034	116.56	.050	100.44	.030	125.11	.038	143.97	.041	148.66	.036	162.45

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.290	222.88	.866	227.83	.557	221.26	10.062	335.63	4.873	344.73	4.170	338.86	2.957	342.55
2	.762	224.08	.773	224.50	.754	223.59	1.073	216.55	.755	230.01	.726	224.11	.710	225.67
3	1.456	19.93	1.487	20.26	1.481	19.00	1.275	12.66	1.364	16.72	1.369	16.00	1.373	17.61
4	.221	187.82	.221	188.13	.215	185.14	.198	173.46	.201	182.69	.209	185.99	.206	189.31
5	.113	87.90	.100	93.07	.105	85.86	.116	83.51	.085	84.09	.093	87.13	.105	90.01
6	.201	14.70	.205	14.70	.202	13.38	.253	10.74	.230	12.28	.214	13.78	.201	19.11
7	.159	257.47	.161	251.26	.155	244.09	.137	294.84	.163	271.91	.160	266.18	.148	267.48
8	.112	154.28	.129	147.36	.124	150.66	.076	163.13	.099	153.02	.093	157.81	.096	166.27
9	.060	310.77	.061	308.24	.057	290.44	.051	259.96	.063	268.13	.072	275.92	.069	286.86
10	.042	169.20	.039	163.49	.044	165.96	.049	152.44	.027	173.76	.025	144.06	.024	157.82

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.859	348.09	1.704	357.04	1.281	359.91	.872	44.52	.241	36.59	1.081	37.36
2	.630	227.82	.801	226.80	.708	226.50	.725	231.43	.809	226.11	.753	222.11
3	1.279	17.14	1.577	18.21	1.388	17.61	1.522	19.08	1.429	19.50	1.415	16.99
4	.188	187.17	.231	185.65	.213	181.79	.229	185.91	.187	174.16	.212	192.59
5	.092	83.05	.126	86.62	.094	81.02	.122	81.58	.150	90.16	.085	72.37
6	.190	11.15	.224	17.04	.192	13.26	.201	11.15	.183	18.91	.197	17.71
7	.155	261.73	.192	253.35	.158	250.49	.201	249.17	.185	245.48	.168	248.92
8	.108	156.18	.127	151.30	.116	154.38	.122	152.54	.114	147.13	.128	153.10
9	.068	275.14	.072	279.65	.054	277.50	.059	267.17	.054	280.16	.055	292.30
10	.022	159.97	.027	166.24	.011	173.11	.014	139.09	.024	160.24	.024	151.75

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 108 ALPHA-MCL = 6.0 PPP RUN.PT 23.05
RUN 23 ALPHA-PAR = .5 C-COMP = .32424
POINT 1 SIGMA = -90. V-REF = 199.71
COMPUTED FREQUENCY = 9.07, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	27.119	-12.916	10.411	-3.701	7.439	-2.825	5.109	-1.479	3.571	-.247	3.260	.627	2.580	1.001
2	-2.341	-1.491	-.021	.002	-.075	-.022	-.099	-.021	.042	.076	-.028	-.039	.048	.026
3	.759	.136	.059	-.014	.037	-.074	.036	-.519	-.132	-.098	.096	.002	-.075	-.076
4	-.392	.054	.006	-.050	-.049	.004	.006	-.026	.025	.001	.006	-.006	.010	.013
5	.394	.167	.029	-.008	.024	.009	-.004	.017	.019	-.011	.002	.025	.010	-.014
6	.002	-.069	.014	.042	-.000	.060	-.021	.037	-.023	-.005	.004	.022	-.020	.007
7	.009	.032	-.004	.071	-.015	.026	-.019	.021	-.020	.025	-.059	-.023	-.033	-.005
8	.077	.076	.020	.066	.021	.070	.016	.031	.003	.038	-.005	.028	-.016	.015
9	-.049	.036	-.046	.047	-.031	.004	-.023	.004	-.044	.005	-.025	-.015	-.038	-.005
10	-.069	-.015	-.011	-.027	-.011	-.035	-.025	-.015	.010	-.015	.009	-.015	.023	-.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.500	1.483	.774	.795	1.278	1.023
2	.036	-.036	-.010	-.042	-.012	.015
3	.075	-.024	-.048	-.036	-.047	-.069
4	-.078	.007	.032	.050	.007	-.027
5	.014	.008	.005	.030	.019	-.020
6	.003	-.012	-.020	.009	-.009	.013
7	-.077	-.033	-.025	-.017	.007	-.018
8	-.007	.007	.003	-.003	-.006	-.007
9	-.042	-.013	-.028	-.005	.001	.003
10	.011	.001	.017	-.003	.021	.001

N	CNREAL	CNIMAG
1	4.501	-.653
2	-.078	-.034
3	.022	-.033
4	-.009	-.003
5	.023	.002
6	-.006	.015
7	-.019	.002
8	.003	.029
9	-.039	.002
10	.007	-.013

N	CMREAL	CMIMAG
1	1.018	-.569
2	-.044	-.016
3	.015	.006
4	-.008	-.002
5	.006	.003
6	.002	.003
7	.002	.005
8	.003	.007
9	-.002	.003
10	-.004	-.003

*** STABILITY PARAMETER

XI = .5688

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.175		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.805	-.893	4.277	-.010	-13.764	4.993	-1.403	.204	2.217	9.682
2	-.634	-.647	-.286	-.748	-1.172	-.970	-.571	-.639	-.380	-.539
3	1.921	.556	1.869	.557	1.756	.976	1.685	.544	1.734	-.076
4	-.734	.021	-.354	.120	.001	.276	-.293	-.023	-.323	.152
5	-.011	.036	-.014	-.019	.177	.172	.041	.123	.177	.334
6	.073	.022	.347	-.117	.350	-.021	.261	.039	.365	.111
7	.070	-.068	.154	-.386	.016	-.293	.048	-.213	-.033	-.376
8	-.133	.019	-.137	-.044	-.112	.020	-.143	-.015	-.177	-.169
9	.050	-.059	-.075	-.139	.124	-.182	.068	-.396	.032	-.038
10	-.010	[illegible]	.020	-.027	.032	.026	-.031	.024	.075	-.060

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 158 ALPHA-MCL = 6.0 PDP RUN.PT 23.05
RUN 23 ALPHA-BAR = .5 Q-COMP = .32424
POINT 1 SIGMA = -90. V-REF = 199.71
COMPUTED FREQUENCY = 9.07, K = .0714

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DFLCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	30.078	334.53	11.049	340.43	7.958	339.20	5.330	344.58	3.579	356.05	3.320	10.89	2.767	21.21
2	2.592	234.90	.027	174.47	.078	196.29	.101	192.05	.087	61.07	.048	234.42	.055	28.60
3	.830	23.88	.061	346.27	.082	296.43	.041	332.57	.165	216.48	.096	1.40	.107	225.32
4	.396	172.18	.050	276.99	.049	175.50	.027	284.11	.025	1.79	.009	314.14	.016	50.93
5	.426	22.05	.030	344.63	.025	20.98	.017	104.61	.013	321.59	.025	65.10	.018	306.11
6	.114	323.65	.044	71.49	.060	90.38	.043	119.18	.028	189.71	.022	80.18	.021	159.78
7	.094	19.51	.031	98.10	.030	120.34	.023	113.04	.032	129.62	.062	201.42	.034	188.86
8	.095	64.12	.069	72.82	.073	73.00	.032	79.68	.038	78.03	.029	102.97	.022	135.70
9	.051	144.14	.066	134.25	.031	171.76	.023	169.76	.049	173.24	.030	211.25	.038	187.20
10	.071	192.28	.029	247.21	.036	251.75	.016	250.81	.019	304.68	.017	300.47	.025	337.75

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.152	43.54	1.103	45.40	1.637	38.69
2	.102	339.15	.043	256.39	.019	129.94
3	.022	342.92	.061	218.37	.063	235.69
4	.010	140.53	.060	57.24	.028	284.34
5	.016	29.29	.051	84.41	.028	314.04
6	.012	283.35	.022	156.17	.016	124.90
7	.050	221.60	.030	213.30	.019	292.28
8	.010	133.11	.005	332.25	.006	209.05
9	.044	197.71	.029	190.40	.003	76.81
10	.031	2.45	.015	348.56	.021	2.21

N	CN-MAG	PHIN
1	4.548	351.74
2	.085	203.94
3	.040	303.89
4	.009	198.16
5	.025	21.82
6	.016	112.10
7	.020	173.70
8	.029	84.65
9	.030	176.24
10	.015	296.91

N	CM-MAG	PHIM
1	1.166	330.80
2	.047	199.89
3	.016	19.94
4	.008	191.07
5	.007	23.29
6	.003	57.94
7	.006	67.92
8	.007	66.51
9	.003	126.32
10	.005	212.63

*** STABILITY PARAMETER

*
* XI = .5688 *
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.214	333.66	4.277	359.86	14.641	160.06	1.414	171.72	9.933	77.10
2	.906	225.57	.841	242.70	1.490	218.13	.857	223.22	.545	261.54
3	1.904	16.98	1.948	16.40	2.009	29.08	1.770	17.89	1.336	356.74
4	.336	174.65	.374	161.34	.206	89.82	.291	184.51	.357	154.85
5	.096	96.61	.024	233.01	.215	37.93	.130	71.41	.378	62.08
6	.274	4.56	.404	343.16	.351	356.65	.264	9.38	.382	16.98
7	.277	284.70	.400	285.14	.284	273.16	.219	282.72	.083	246.36
8	.135	171.98	.163	195.68	.114	170.15	.143	185.89	.245	223.64
9	.110	296.69	.144	255.79	.220	334.35	.117	305.14	.050	309.38
10	.014	137.92	.033	306.62	.041	38.92	.039	138.97	.096	321.19

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 110 ALPHA-MCL = 6.0 PDP RUN.PT 23.07
RUN 23 ALPHA-BAR = .5 C-COMP = .32343
POINT 3 SIGMA = -90. V-REF = 199.45
COMPUTED FREQUENCY = 15.57, K = .1226

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-15.220	9.993	-5.959	1.779	-4.025	.600	-2.831	-.353	-2.445	-1.117	-2.337	-1.769	-2.078	-2.038
2	1.514	.553	-.364	-.123	-.230	-.061	-.241	-.079	-.271	-.107	-.271	-.115	-.288	-.094
3	-.109	-.752	.098	-.107	.095	-.072	.097	-.095	.091	-.086	.079	-.050	.077	-.036
4	-.177	.003	-.180	-.066	-.147	-.100	-.168	-.076	-.179	-.090	-.205	-.081	-.175	-.068
5	-.158	.045	-.028	.078	-.010	.034	-.011	.021	-.010	.034	.008	.033	.007	.022
6	.075	.029	.030	-.053	.017	-.031	.018	-.034	.012	-.023	.023	-.028	.018	-.028
7	.027	-.050	.057	.041	.036	.049	.040	.046	.044	.046	.043	.043	.046	.050
8	-.051	.007	-.059	.015	-.056	.015	-.065	.011	-.065	.014	-.062	.015	-.063	.007
9	.018	.028	-.009	.079	-.002	.016	-.018	.001	-.012	.006	-.022	.009	-.028	.002
10	-.010	.017	-.031	.015	-.034	.021	-.021	.017	-.019	.014	-.015	.015	-.012	.016

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.675	-1.882	-1.291	-1.631	-1.109	-1.419	7.947	-5.219	4.222	-2.335	3.004	-2.392	1.959	-1.721
2	-.294	-.072	-.305	-.062	-.317	-.043	-.601	-.170	-.313	-.127	-.296	-.060	-.268	-.062
3	.066	-.044	.055	-.055	.036	-.047	.122	-.122	.090	-.063	.075	-.074	.066	-.066
4	-.186	-.070	-.192	-.060	-.193	-.040	-.176	-.084	-.154	-.037	-.160	-.052	-.157	-.066
5	.012	.029	.002	.036	.010	.030	.033	-.018	-.015	.012	-.016	.013	-.011	.013
6	.016	-.023	.019	-.032	-.001	-.027	.021	.005	.009	-.015	.009	-.018	.013	-.014
7	.041	.045	.048	.049	.039	.036	.055	.061	.027	.046	.029	.039	.020	.044
8	[illegible]	-.000	-.061	.029	-.053	.003	-.067	.035	-.055	.005	-.049	.007	-.053	-.006
9	-.076	-.001	-.032	-.005	-.025	-.002	-.013	-.012	-.019	-.007	-.011	-.008	-.004	-.016
10	-.018	.018	-.009	.015	-.014	.017	.009	.001	-.014	.020	-.014	.021	-.017	.019

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.862-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	[illegible]	-1.111	.818	-1.003	.515	-.844	-.099	-.329	.071	-.481	.241	-.634
2	-.249	-.046	-.306	-.072	-.283	-.049	-.199	-.060	-.240	-.044	-.280	-.028
3	.054	-.067	.051	-.077	.032	-.073	.048	-.052	.022	-.043	-.003	-.034
4	-.146	-.054	-.202	-.061	-.185	-.046	-.201	-.070	-.192	-.044	-.184	-.019
5	-.007	.018	.002	.025	.013	.024	.022	.037	.021	.027	.019	.017
6	[illegible]	-.020	.011	-.025	.013	-.033	.007	-.011	.015	-.018	.023	-.025
7	.029	.036	.033	.033	.027	.034	.028	.014	.027	.025	.026	.038
8	-.042	.015	-.052	.006	-.045	.013	-.049	-.000	-.050	.006	-.052	.012
9	[illegible]	-.002	-.007	-.006	-.012	-.008	-.019	.010	-.017	.002	-.015	-.006
10	-.014	.015	[illegible]	.018	-.016	.018	-.015	.012	-.015	.011	-.015	.010

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 110   ALPHA-MCL = 6.0   POP RUN.PT 23.07
RUN 23   ALPHA-PAR = .5   Q-COMP = .32343
POINT 3   SIGMA = -93.   V-REF = 199.45
COMPUTED FREQUENCY = 15.57, K = .1226

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	13.546	150.99	6.219	163.78	4.069	171.52	2.853	187.11	2.683	234.56	2.930	217.12	2.908	224.39
2	1.612	23.07	.384	198.68	.238	194.91	.253	199.26	.292	201.43	.295	202.99	.303	198.16
3	.778	255.19	.139	309.59	.120	322.75	.129	318.50	.125	316.77	.094	327.95	.085	334.59
4	.177	179.15	.192	200.19	.180	215.04	.135	204.42	.201	206.66	.220	201.45	.187	201.25
5	.164	164.09	.046	123.90	.036	106.18	.023	118.62	.035	106.35	.034	75.90	.023	71.36
6	.080	21.16	.061	299.08	.035	298.87	.039	297.52	.027	297.95	.036	309.05	.033	303.56
7	.170	329.93	.070	35.59	.061	53.53	.061	48.84	.063	46.02	.061	45.15	.069	46.08
8	.052	172.49	.063	165.37	.058	165.31	.066	170.80	.068	168.07	.063	166.23	.063	173.81
9	.034	57.36	.013	136.02	.016	98.37	.018	175.46	.013	155.58	.024	157.51	.028	175.66
10	.034	150.54	.034	154.65	.040	148.17	.027	141.48	.024	142.68	.022	137.71	.020	128.61

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.519	228.32	2.137	232.48	1.831	231.98	9.537	326.71	4.824	331.05	3.840	321.48	2.608	318.69
2	.303	193.84	.313	191.37	.319	187.29	.625	195.79	.342	201.81	.302	191.49	.275	193.06
3	.090	326.42	.078	315.29	.059	307.19	.173	314.97	.102	321.72	.106	315.67	.094	314.98
4	.198	200.72	.201	197.42	.197	191.77	.195	205.52	.158	193.68	.169	197.86	.170	202.88
5	.031	68.01	.036	86.70	.032	71.79	.038	330.64	.019	141.51	.020	141.27	.017	130.37
6	.028	305.38	.037	301.05	.028	267.19	.021	.55	.013	302.21	.020	296.13	.019	312.88
7	.061	47.35	.069	46.01	.053	42.69	.082	47.55	.053	59.29	.049	52.85	.048	65.06
8	.053	180.27	.062	171.65	.053	176.47	.076	152.49	.055	174.55	.050	171.58	.053	186.02
9	.026	181.14	.030	189.71	.025	183.62	.018	224.39	.023	199.96	.014	215.86	.016	255.48
10	.025	135.16	.017	118.51	.022	130.15	.022	67.99	.025	125.71	.025	123.67	.026	133.12

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.536	313.66	1.294	309.19	.988	301.38	.344	253.76	.487	278.40	.678	290.83
2	.253	190.51	.314	193.23	.288	189.84	.238	196.85	.244	190.42	.282	185.67
3	.086	309.33	.092	303.67	.080	293.61	.071	312.35	.049	297.09	.035	264.65
4	.174	198.07	.211	196.91	.190	193.90	.212	199.17	.197	192.94	.165	185.77
5	.020	111.63	.025	86.25	.027	60.98	.043	58.69	.034	52.34	.025	41.47
6	.020	283.23	.027	292.81	.035	291.70	.013	302.50	.023	309.57	.033	312.31
7	.046	51.31	.047	44.62	.044	51.36	.031	27.71	.037	44.06	.046	55.09
8	.044	160.09	.052	173.75	.047	164.96	.049	180.19	.051	173.45	.053	167.25
9	.079	193.47	.009	219.82	.014	214.53	.022	153.29	.017	174.00	.016	202.38
10	.021	133.34	.026	135.55	.024	131.85	.019	140.16	.013	143.02	.017	146.13

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 110   ALPHA-MCL = 6.0   POP RUN.PT 23.07
RUN 23   ALPHA-PAP = .5   C-COMP = .32343
POINT 3   SIGMA = -90.   V-REF = 199.45
COMPUTED FRECUENCY = 15.57, K = .1226

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	24.157	-14.212	10.180	-4.113	7.029	-2.992	4.730	-1.366	3.595	.096	3.154	.766	2.593	1.190
2	-2.116	-.723	.045	-.024	-.066	.001	-.027	.017	.022	.063	-.034	.043	.004	.045
3	.321	.633	-.005	.043	-.020	-.031	-.030	.019	-.037	.019	-.028	-.027	-.045	-.037
4	.031	-.087	.026	.029	-.013	.052	.011	.010	.013	.036	.003	.019	-.010	.022
5	.193	-.063	.011	-.036	-.006	-.022	.030	-.028	.033	-.015	-.007	-.008	.006	.002
6	-.055	-.029	-.020	.039	-.008	.013	-.005	.020	-.003	.004	-.012	.003	-.005	-.005
7	-.071	.111	-.030	.075	-.007	-.010	-.020	-.002	-.015	-.010	-.017	-.010	-.021	-.016
8	-.016	.028	.033	-.010	-.007	-.007	.012	-.016	.024	.001	.010	-.009	.018	.005
9	-.071	-.041	-.012	-.016	-.009	-.024	.014	-.017	.033	-.008	.015	-.015	.017	-.010
10	.038	.004	.016	.006	.020	-.031	.024	.002	.004	.001	-.002	.003	-.004	.003

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.576	1.553	1.362	1.200	1.350	.785
2	.005	.012	.067	.018	.036	.013
3	-.019	-.008	-.033	.011	-.039	.013
4	-.015	.000	-.030	.016	.010	.022
5	.011	.008	.018	-.009	.009	-.014
6	-.009	.012	-.005	.014	.024	.003
7	-.014	-.031	-.021	-.023	-.013	.001
8	.004	.000	.012	-.003	.001	.008
9	.007	.010	.017	.007	.010	-.005
10	.003	-.006	-.006	-.004	-.000	-.007

N	CNREAL	CNIMAG
1	4.330	-.649
2	-.057	.003
3	-.018	.020
4	.002	.019
5	.009	-.011
6	-.007	.008
7	-.016	-.006
8	.010	-.032
9	.006	-.010
10	.005	.000

N	CMREAL	CMIMAG
1	.928	-.606
2	-.038	-.012
3	.066	.012
4	.001	.001
5	.002	-.003
6	-.002	.001
7	-.001	.003
8	.000	-.001
9	-.002	-.003
10	.002	.001

*** STABILITY PARAMETER

* XI = .6057 *

****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.050		.175		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.914	-2.099	3.193	-1.340	-13.903	4.237	-2.206	-.912	3.180	9.585
2	-.390	-.076	-.181	-.045	-.849	.046	-.373	-.144	.072	.394
3	.168	-.207	.226	-.784	.166	-.015	.168	-.123	-.242	-.247
4	-.013	-.058	-.145	-.045	.024	-.156	-.176	-.080	-.091	.099
5	-.040	.021	.007	.065	-.054	.049	.001	.041	.183	.034
6	.033	-.053	.077	-.046	-.031	-.119	.074	-.047	.146	-.118
7	.061	.066	.056	.053	.095	.052	.056	.071	-.032	.130
8	-.073	.033	-.043	.091	-.068	.053	-.063	.017	-.087	-.076
9	-.023	.011	-.026	.015	-.026	.017	-.010	.006	-.020	.007
10	-.032	.021	.006	.063	-.067	.045	-.029	.027	.021	-.040

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 110 ALPHA-MCL = 6.0 PDP RUN,PT 23.07
RUN 23 ALPHA-RAP = .5 Q-COMP = .32343
POINT 3 SIGMA = -90. V-REF = 199.45
COMPUTED FREQUENCY = 15.57, K = .1226

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	23.036	329.54	10.980	338.70	7.640	336.94	4.982	344.06	3.505	.10	3.246	13.64	2.853	24.66
2	2.236	198.87	.046	354.97	.066	179.11	.032	147.75	.064	69.58	.055	128.52	.045	84.54
3	.707	62.99	.044	100.53	.020	183.68	.036	147.81	.041	152.37	.039	223.58	.058	219.45
4	.037	270.58	.039	47.50	.053	104.43	.015	42.30	.033	69.50	.020	80.20	.024	114.09
5	.201	341.59	.028	292.14	.022	255.23	.008	271.00	.016	279.68	.011	230.62	.007	22.22
6	.062	207.89	.044	117.81	.016	122.34	.021	103.85	.009	155.19	.013	166.02	.007	221.48
7	.115	105.71	.030	170.36	.012	236.18	.020	186.70	.018	212.65	.014	226.89	.026	217.14
8	.033	119.58	.010	287.37	.010	314.01	.020	306.32	.024	2.76	.013	315.71	.019	16.41
9	.051	232.93	.019	236.95	.026	249.68	.022	309.01	.003	294.12	.022	314.82	.019	328.62
10	.038	5.40	.017	18.75	.020	358.46	.004	21.11	.005	10.29	.004	123.59	.005	145.90

X =	.774		.860		.910		N	CN-MAG	PHIN	N	CM-MAG	PHIM
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI						
1	2.212	44.57	1.816	41.37	1.562	30.18	1	4.379	351.48	1	1.108	326.87
2	.096	7.29	.069	14.75	.039	19.21	2	.057	177.22	2	.040	197.04
3	.020	203.40	.035	161.17	.041	161.90	3	.027	132.16	3	.013	63.04
4	.015	178.22	.016	91.59	.024	66.33	4	.019	83.25	4	.001	27.05
5	.013	36.67	.021	334.05	.016	302.95	5	.014	310.40	5	.003	308.05
6	.015	127.83	.015	107.71	.024	6.54	6	.011	130.62	6	.003	152.78
7	.034	245.46	.031	228.33	.013	174.36	7	.017	202.24	7	.003	104.31
8	.004	1.26	.011	343.18	.009	80.92	8	.010	346.11	8	.001	274.71
9	.012	56.24	.014	28.70	.011	336.55	9	.012	300.68	9	.003	234.37
10	.007	300.89	.008	214.43	.007	269.79	10	.005	.57	10	.002	19.13

*** STABILITY PARAMETER

****
* XI = .6057 *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W5		W10	
GAP FRACTION	-.125		.000		.125		.530		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.230	293.52	3.463	337.24	14.534	163.35	2.387	202.47	10.099	71.64
2	.392	185.24	.186	193.88	.850	176.86	.363	203.38	.400	79.67
3	.266	309.13	.445	300.46	.166	354.81	.208	323.81	.346	225.56
4	.221	195.31	.151	197.13	.157	278.85	.193	204.43	.134	132.62
5	.045	152.16	.009	36.67	.073	137.86	.041	88.75	.186	10.66
6	.062	302.38	.090	329.31	.119	269.30	.053	310.42	.188	321.11
7	.090	47.59	.077	43.26	.108	28.79	.090	51.70	.125	105.06
8	.075	164.85	.101	115.60	.103	148.98	.070	166.26	.087	183.76
9	.025	153.12	.030	150.32	.031	146.42	.012	147.46	.021	160.66
10	.045	135.77	.083	86.05	.077	143.64	.036	142.91	.045	297.72

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 112 ALPHA-MCL = 6.0 PCP RUN.PT 23.09
RUN 23 ALPHA-BAR = .5 C-COMP = .32076
POINT 5 SIGMA = -90. V-REF = 198.61
COMPUTED FREQUENCY = 19.16, K = .1316

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-15.162	9.577	-5.937	2.100	-3.891	.824	-2.736	-.146	-2.356	-.980	-2.264	-1.513	-1.953	-1.758
2	1.523	.438	-.436	-.071	-.362	-.025	-.361	-.033	-.419	-.059	-.446	-.040	-.435	-.072
3	-.201	-.506	.104	.022	.119	.063	.074	.022	.072	.029	.073	.058	.069	.057
4	.001	.035	-.166	.114	-.157	.040	-.133	.046	-.186	.017	-.176	-.006	-.164	-.030
5	-.293	.027	-.009	-.013	-.002	-.022	.016	-.016	.023	-.012	.034	-.012	.019	-.011
6	-.011	.103	-.097	.008	-.098	.007	-.092	.007	-.089	.015	-.100	.001	-.087	.009
7	-.026	-.028	-.034	-.023	-.037	-.035	-.036	-.034	-.042	-.031	-.032	-.036	-.025	-.048
8	.052	-.069	.072	-.008	.070	.012	.067	.022	.059	.037	.060	.034	.053	.040
9	.067	-.001	.027	.013	.014	.017	.007	.016	.002	.007	.002	.003	-.005	.002
10	.036	-.012	.040	-.010	.037	-.009	.030	-.013	.025	-.013	.027	-.008	.025	-.018

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.539	-1.618	-1.163	-1.400	-.974	-1.135	8.919	-5.231	4.551	-2.311	3.105	-2.123	2.043	-1.399
2	-.433	-.061	-.454	-.057	-.455	-.031	-.747	-.089	-.493	-.097	-.431	-.037	-.403	-.060
3	.053	.040	.056	.036	.064	.034	.131	.063	.112	.068	.094	.052	.081	.056
4	-.142	-.031	-.134	-.035	-.132	-.037	-.168	.052	-.179	.055	-.168	.050	-.167	.015
5	.001	.000	.017	-.002	.014	-.002	.022	-.027	.014	-.026	.007	-.017	.010	-.021
6	-.088	.014	-.076	.020	-.081	.019	-.029	.076	-.045	.015	-.043	.020	-.051	.006
7	-.072	-.043	-.029	-.076	-.026	-.039	-.012	.071	-.025	-.011	-.030	-.012	-.035	-.021
8	.002	.045	.044	.045	.049	.042	.034	.063	.035	.051	.026	.048	.018	.054
9	-.005	-.065	-.011	-.005	-.007	-.009	-.035	.015	-.022	.016	-.014	.011	-.015	.005
10	.024	-.017	.018	-.003	.019	-.022	.001	-.018	.075	-.021	.008	-.026	.020	-.027

X =	.397-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.146	-.818	.896	-.678	.586	-.519	.001	.060	-.533	-.163	.366	-.381
2	-.359	-.355	-.449	-.078	-.403	-.051	-.342	-.171	-.462	-.017	-.408	-.042
3	.056	.050	.077	.047	.057	.040	.060	.034	.055	.022	.047	.052
4	-.178	.034	-.175	.015	-.130	-.002	-.131	-.012	-.127	-.007	-.125	-.024
5	.015	-.009	.013	-.011	.004	-.010	.033	.012	.024	.001	.015	-.014
6	-.010	.022	-.069	.002	-.061	.017	-.070	.004	-.065	.025	-.064	.017
7	-.005	[illegible]	-.039	-.012	-.030	-.021	-.029	-.027	-.074	-.022	-.028	-.021
8	[illegible]	.038	.036	.046	.035	.036	.036	.042	.052	.039	.044	.054
9	-.017	[illegible]	-.005	-.005	-.005	-.007	-.011	-.009	.003	-.001	-.005	-.009
10	.015	-.025	.020	-.002	.022	-.031	.024	-.009	.024	-.026	.025	-.027

ORIGIN... ...
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 112 ALPHA-MCL = 6.0 PDP RUN.PT 23.09
RUN 23 ALPHA-PAR = .5 Q-COMP = .32376
POINT 5 SIGMA = -90. V-REF = 198.61
COMPUTED FREQUENCY = 19.16, K = .1516

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.787	149.35	6.375	160.12	3.978	168.34	2.740	183.76	2.515	200.49	2.723	213.75	2.628	222.01
2	1.621	15.09	.442	189.20	.363	183.97	.362	185.18	.424	188.07	.448	185.10	.441	189.45
3	.545	248.30	.107	12.01	.135	28.07	.077	16.40	.078	21.58	.093	38.44	.090	39.46
4	.041	58.54	.202	145.45	.162	165.69	.189	165.86	.187	174.74	.176	181.93	.166	190.26
5	.294	174.79	.015	236.77	.022	265.97	.023	314.77	.027	332.08	.036	340.93	.022	329.89
6	.134	96.20	.093	175.26	.088	175.73	.090	175.53	.091	170.47	.100	179.56	.088	174.21
7	.038	226.26	.041	214.61	.051	222.97	.050	223.50	.052	216.95	.048	228.18	.054	242.44
8	.086	307.48	.072	353.75	.071	10.16	.070	18.33	.073	32.46	.068	29.57	.066	36.77
9	.067	358.91	.030	26.29	.019	44.36	.018	65.15	.007	74.61	.003	62.94	.005	158.83
10	.067	351.72	.041	345.85	.038	346.88	.033	337.31	.029	331.98	.029	343.62	.030	324.22

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.234	226.43	1.827	230.28	1.496	229.34	9.569	326.93	5.104	333.08	3.757	325.60	2.476	325.60
2	.437	188.07	.457	187.18	.456	183.87	.753	187.58	.501	190.04	.433	184.93	.403	188.54
3	.074	32.28	.066	32.65	.073	27.97	.146	25.49	.131	31.23	.107	28.88	.098	34.74
4	.145	192.50	.139	194.82	.138	195.66	.176	162.84	.183	162.95	.175	163.57	.168	174.85
5	.021	.51	.017	352.98	.015	352.24	.035	309.14	.031	297.33	.018	293.65	.023	295.65
6	.089	170.77	.079	165.28	.083	166.92	.039	137.21	.048	162.16	.047	154.46	.051	173.45
7	.054	233.95	.046	232.62	.047	236.82	.012	175.83	.027	203.64	.032	198.24	.041	210.72
8	.069	40.62	.063	45.99	.065	40.33	.072	61.47	.062	56.02	.055	61.47	.057	71.88
9	.008	226.17	.012	202.28	.011	231.75	.038	157.11	.027	144.13	.018	143.12	.016	161.16
10	.029	323.99	.029	307.71	.029	311.75	.018	271.93	.022	283.67	.028	286.52	.033	306.19

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.425	324.94	1.083	325.85	.776	319.04	.060	88.74	.554	197.06	.528	313.83
2	.373	188.43	.455	189.31	.406	187.17	.357	196.52	.462	182.09	[illegible]	185.83
3	.034	36.56	.090	31.46	.069	35.17	.069	29.58	.059	21.46	.070	47.91
4	.142	166.36	.176	175.13	.130	180.76	.151	184.37	.127	183.00	.127	190.87
5	.018	327.40	.017	320.35	.011	289.98	.035	19.87	.024	1.17	.020	316.40
6	.055	155.73	.072	162.49	.063	164.68	.071	176.45	.071	159.27	.067	164.94
7	.028	201.34	.041	197.72	.036	215.31	.039	222.54	.033	222.22	.035	217.23
8	.051	48.65	.059	52.26	.050	46.14	.055	49.56	.064	36.27	.063	44.99
9	.011	164.74	.011	210.16	.008	234.56	.014	219.15	.003	335.52	.011	242.76
10	.030	302.54	.039	304.19	.038	305.47	.038	309.06	.035	31[illegible].82	.037	312.58

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 112 ALPHA-MCL = 6.0 PDP RUN.PT 27.09
RUN 23 ALPHA-PAR = .5 C-COMP = .32076
POINT 5 SIGMA = -90. V-REF = 198.61
COMPUTED FREQUENCY = 19.16, K = .1516

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	24.101	-14.798	10.358	-4.411	6.991	-2.947	4.779	-1.252	3.522	.052	3.160	.935	2.539	1.250
2	-2.370	-.537	-.057	-.017	-.069	-.012	-.042	-.078	.051	.005	-.007	-.038	.032	.022
3	.333	.569	.008	.046	-.025	-.012	.036	.034	-.005	.022	.004	-.011	-.012	-.017
4	-.190	.017	-.013	-.059	-.011	.009	.016	-.071	.043	.016	.001	.021	.034	.028
5	.315	-.054	.022	-.014	.009	.005	-.036	-.005	-.009	.007	-.021	.001	-.015	.001
6	-.017	-.077	.047	.007	.045	.014	.039	-.001	.037	.007	.031	.021	.026	.008
7	.015	.029	.009	.012	.007	.025	.001	.014	.015	.021	-.007	.023	-.005	.027
8	-.015	.131	-.037	.039	-.044	.035	-.049	.032	-.025	.001	-.024	.013	-.018	-.003
9	-.172	.016	-.049	.003	-.028	-.002	-.023	-.011	-.012	-.034	-.011	-.008	-.000	-.009
10	-.056	-.008	-.035	-.011	-.029	-.018	-.011	-.014	-.009	-.012	-.006	-.024	-.003	-.013

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.541	1.679	.637	1.237	1.340	.754
2	.001	-.040	-.009	.040	.047	-.011
3	-.003	-.006	-.001	-.014	-.018	.019
4	-.079	.020	.007	.029	.007	.013
5	.012	.012	.007	.003	.000	-.012
6	.018	-.011	.010	.005	.017	-.002
7	.003	.017	.007	.014	-.003	.018
8	-.010	-.003	.008	-.007	-.005	.002
9	-.005	-.003	.014	.004	.002	-.001
10	.000	-.017	.006	-.003	.005	-.005

N	CNREAL	CNIMAG
1	4.292	-.623
2	-.065	-.027
3	.005	.023
4	.065	.007
5	.007	-.002
6	.029	.003
7	.003	.019
8	-.024	.017
9	-.015	-.004
10	-.010	-.013

N	CMREAL	CMIMAG
1	.947	-.622
2	-.045	-.009
3	.005	.011
4	-.003	-.004
5	.005	-.001
6	.003	-.000
7	.001	.000
8	-.004	.006
9	-.005	.000
10	-.004	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.783	-1.675	3.221	-.934	-13.496	4.652	-2.121	-.633	3.373	9.657
2	-.505	.057	-.227	.009	-.785	-.093	-.522	-.099	-.072	.065
3	.112	.038	.145	.049	.019	.219	.072	.061	.330	.028
4	-.008	.123	-.077	.159	.009	.026	-.202	.017	-.222	.355
5	.028	-.031	.109	-.073	-.047	.067	.007	-.035	-.274	-.166
6	-.002	.045	-.006	.070	-.155	-.047	-.108	.005	-.081	.011
7	-.025	-.016	-.022	-.039	-.033	-.072	-.050	-.047	-.041	-.045
8	.037	.058	.058	.057	.117	-.029	.002	.029	.081	.050
9	-.019	.013	-.055	.029	.034	.001	.005	.015	.007	.042
10	.017	-.018	.026	-.019	.085	.003	.038	-.023	.034	-.050

*** STABILITY PARAMETER

XI = .6223

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 112 ALPHA-MCL = 6.0 PDP RUN.PT 23.09
RUN 23 ALPHA-BAR = .5 C-COMP = .32076
POINT 5 SIGMA = -90. V-REF = 198.61
COMPUTED FREQUENCY = 19.16, K = .1516

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.152		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	23.350	328.53	11.252	336.93	7.587	337.14	4.941	345.32	3.523	1.01	3.287	15.98	2.830	26.21
2	2.430	172.77	.062	196.24	.070	189.68	.050	213.79	.051	5.43	.038	266.54	.039	33.86
3	.659	59.66	.046	80.44	.028	204.95	.035	79.60	.022	101.87	.011	291.93	.021	233.74
4	.100	174.91	.061	257.32	.014	138.34	.035	297.50	.053	19.08	.021	86.64	.044	39.37
5	.320	350.30	.026	376.63	.010	29.95	.008	217.10	.009	161.19	.021	177.50	.015	176.53
6	.079	257.26	.047	8.67	.047	17.19	.039	358.24	.040	10.82	.038	33.61	.027	16.56
7	.032	62.65	.015	54.12	.026	74.24	.014	85.20	.025	53.68	.024	106.37	.027	99.81
8	.132	97.67	.070	122.10	.056	140.85	.058	147.01	.025	173.53	.027	151.90	.018	190.61
9	.173	170.97	.049	176.74	.028	185.09	.025	205.74	.013	198.32	.014	217.68	.009	268.07
10	.056	187.15	.037	197.61	.034	211.28	.018	233.52	.015	231.54	.025	256.96	.013	258.77

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.278	47.45	1.390	62.89	1.538	29.35
2	.079	336.15	.041	101.41	.048	346.85
3	.306	243.61	.014	265.28	.025	135.01
4	.322	113.92	.030	76.70	.015	60.77
5	.016	44.92	.008	20.32	.012	271.40
6	.020	330.49	.011	28.22	.017	354.71
7	.017	81.36	.015	76.49	.018	98.40
8	.017	189.28	.011	317.65	.036	153.39
9	.006	210.57	.014	14.33	.002	336.92
10	.012	271.17	.007	334.15	.008	315.74

N	CK-MAG	PHIN
1	4.336	351.74
2	.071	202.43
3	.024	76.74
4	.009	52.44
5	.007	345.80
6	.029	6.64
7	.020	82.01
8	.029	145.53
9	.015	194.58
10	.016	231.86

N	CM-MAG	PHIM
1	1.133	326.70
2	.046	191.50
3	.012	63.38
4	.005	231.23
5	.005	348.93
6	.003	351.76
7	.001	18.22
8	.007	121.92
9	.005	178.60
10	.004	190.79

*** STABILITY PARAMETER

****
* XI = .6223 *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.530		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.732	292.16	3.353	343.82	14.275	180.98	2.205	195.87	10.229	70.74
2	.503	173.58	.228	177.74	.789	186.03	.531	193.70	.097	137.92
3	.113	18.62	.153	18.59	.220	85.06	.095	40.25	.331	4.79
4	.241	199.42	.177	115.97	.097	84.85	.203	175.09	.419	121.97
5	.041	312.07	.132	326.16	.082	125.38	.036	281.80	.320	211.18
6	.076	144.33	.071	94.61	.162	196.39	.108	177.45	.082	172.23
7	.029	212.97	.044	240.39	.109	220.96	.069	223.24	.061	227.50
8	.081	45.11	.021	44.49	.116	345.47	.096	17.65	.095	31.74
9	.023	146.26	.062	151.69	.034	2.49	.016	73.88	.042	81.02
10	.025	312.16	.031	324.36	.085	1.97	.044	329.09	.061	304.45

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 103 ALPHA-MCL = 6.0 PDP RUN.PT 22.01
RUN 22 ALPHA-RAP = .5 Q-COMP = .33188
POINT 1 SIGMA = -45. V-REF = 202.05
COMPUTED FREQUENCY = 9.07, K = .0705

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-10.625	7.604	-4.692	1.239	-3.266	.145	-2.249	-.752	-1.693	-1.572	-1.656	-2.246	-1.317	-2.561
2	.730	.110	-.590	.396	-.521	.408	-.545	.368	-.605	.390	-.651	.370	-.653	.388
3	.059	-.441	.782	-.442	.776	-.389	.778	-.413	.831	-.443	.846	-.446	.820	-.464
4	.048	.056	-.061	-.118	-.045	-.140	-.038	-.148	-.029	-.158	-.020	-.174	-.017	-.165
5	-.007	.162	.056	.140	.047	.120	.039	.107	.032	.083	.034	.092	.048	.077
6	-.043	-.108	-.360	-.268	-.344	-.290	-.334	-.306	-.357	-.337	-.376	-.354	-.350	-.336
7	-.005	-.135	-.134	-.118	-.134	-.109	-.159	-.113	-.186	-.108	-.193	-.084	-.190	-.069
8	.043	.053	.204	.037	.205	.029	.208	.040	.223	.036	.221	.012	.197	.017
9	.103	.035	.059	.043	.048	.069	.053	.065	.055	.080	.046	.071	.050	.055
10	.043	-.015	.029	.035	.026	.044	.016	.040	.010	.049	-.003	.042	-.012	.045

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.028	-2.443	-.851	-2.318	-.743	-2.089	4.761	-5.502	1.845	-2.780	1.326	-2.913	.717	-2.391
2	-.634	.387	-.664	.387	-.644	.425	-.755	.368	-.618	.297	-.615	.382	-.628	.394
3	.801	-.456	.839	-.446	.821	-.446	.782	-.347	.752	-.375	.757	-.395	.777	-.390
4	-.016	-.170	-.017	-.168	-.010	-.162	-.072	-.148	-.038	-.175	-.041	-.170	-.029	-.170
5	.038	.070	.052	.081	.043	.089	-.008	.063	-.013	.078	.015	.089	.017	.083
6	-.325	-.343	-.346	-.346	-.343	-.303	-.500	-.284	-.425	-.336	-.374	-.323	-.331	-.345
7	-.202	-.075	-.221	-.069	-.218	-.060	-.224	-.037	-.215	-.066	-.207	-.077	-.188	-.092
8	.175	.019	.182	.017	.172	-.004	.254	-.073	.230	-.023	.229	-.011	.209	.022
9	.037	.067	.038	.054	.031	.058	.063	.028	.057	.042	.052	.052	.041	.060
10	-.003	.041	-.000	.033	.006	.041	.015	.012	.007	.014	.010	.015	.005	.021

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.280	-1.808	.116	-1.911	.026	-1.653	-.266	-1.329	-.504	-1.606	.041	-1.182
2	-.564	.349	-.689	.435	-.622	.385	-.626	.409	-.662	.420	-.615	.414
3	.714	-.374	.891	-.455	.791	-.398	.879	-.463	.605	-.417	.820	-.400
4	-.019	-.155	-.020	-.193	-.007	-.154	-.010	-.151	-.029	-.136	.017	-.165
5	.031	.080	.041	.100	.049	.084	.061	.079	.057	.085	.043	.065
6	-.330	-.313	-.365	-.389	-.340	-.340	-.369	-.332	-.331	-.309	-.314	-.315
7	-.204	-.071	-.256	-.097	-.229	-.091	-.266	-.083	-.239	-.081	-.239	-.080
8	.171	-.005	.223	.004	.185	.002	.207	-.002	.159	-.002	.162	.009
9	.050	.049	.054	.062	.048	.049	.053	.058	.050	.036	.036	.046
10	.013	.015	.012	.021	.008	.019	-.002	.014	.027	.011	.014	.020

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 103 ALPHA-MCL = 6.0 PDP RUN.PT 22.01
RUN 22 ALPHA-BAR = .5 Q-COMP = .33188
POINT 1 SIGMA = -45. V-REF = 202.05
COMPUTED FREQUENCY = 9.07, K = .0705
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	13.066	144.41	4.853	165.21	3.269	177.46	2.371	198.49	2.461	219.71	2.791	233.60	2.880	242.78
2	.738	8.53	.712	146.03	.662	141.99	.658	146.00	.720	147.17	.748	150.41	.759	149.32
3	.445	277.68	.898	330.51	.868	333.39	.881	332.05	.942	331.96	.956	332.22	.942	330.50
4	.099	60.70	.133	242.73	.147	252.25	.153	255.54	.161	259.42	.176	263.52	.166	264.14
5	.162	92.45	.150	68.11	.129	68.62	.114	70.15	.089	68.98	.099	69.68	.090	58.10
6	.116	248.40	.449	216.71	.450	220.11	.453	222.48	.491	223.32	.517	223.28	.486	223.87
7	.135	267.32	.178	221.39	.173	219.30	.195	215.43	.216	210.22	.210	203.41	.203	199.96
8	.069	51.10	.207	10.39	.207	7.98	.211	10.97	.226	9.23	.221	3.06	.198	4.96
9	.109	18.55	.073	35.79	.084	55.00	.084	51.18	.097	55.36	.085	57.40	.074	47.56
10	.045	340.70	.046	50.26	.051	59.55	.044	68.41	.050	78.87	.042	93.97	.047	104.35

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.651	247.18	2.469	249.84	2.217	250.42	7.277	310.87	3.337	303.57	3.201	294.48	2.496	286.69
2	.743	148.59	.769	149.73	.772	146.62	.840	154.04	.686	154.33	.724	148.14	.741	147.90
3	.921	330.35	.949	331.97	.934	331.48	.855	336.10	.840	333.49	.854	332.41	.869	333.38
4	.170	264.73	.169	264.11	.163	266.32	.164	244.05	.179	257.83	.174	256.46	.173	260.24
5	.079	61.57	.096	57.24	.099	64.45	.064	97.45	.079	99.63	.090	80.70	.084	76.06
6	.472	226.50	.489	225.00	.457	221.40	.575	209.58	.542	218.37	.494	220.78	.478	226.12
7	.215	200.39	.231	197.24	.226	195.33	.227	189.38	.225	197.12	.221	200.43	.209	206.03
8	.176	6.09	.183	5.23	.172	358.62	.264	343.99	.231	354.18	.229	357.36	.210	5.99
9	.077	60.90	.066	54.81	.066	62.35	.069	23.79	.071	36.38	.073	45.17	.073	55.92
10	.041	93.77	.033	90.79	.041	81.20	.019	38.36	.016	63.46	.018	56.37	.022	75.67

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.830	278.80	1.915	273.47	1.654	270.90	1.355	258.68	1.684	252.58	1.183	272.00
2	.663	148.21	.815	147.77	.731	148.25	.748	146.85	.784	147.61	.741	146.03
3	.806	332.38	1.000	332.94	.885	333.30	.993	332.23	.907	332.61	.913	333.99
4	.156	262.91	.194	264.06	.154	267.47	.151	266.31	.139	257.94	.166	275.88
5	.086	68.53	.108	67.74	.098	59.88	.100	52.55	.102	56.36	.078	56.51
6	.455	223.47	.548	225.26	.481	224.98	.496	222.02	.453	223.02	.444	225.08
7	.216	199.11	.274	200.68	.247	201.74	.279	197.36	.253	198.71	.252	198.59
8	.192	358.61	.223	1.16	.185	.59	.207	359.42	.159	359.13	.162	3.06
9	.071	44.44	.083	48.70	.068	45.55	.079	47.42	.062	35.79	.058	52.12
10	.020	50.21	.024	60.35	.021	65.78	.015	99.71	.029	21.64	.025	54.54

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 103 ALPHA-MCL = 6.0 PDP RUN.PT 22.01
RUN 22 ALPHA-BAR = .5 Q-COMP = .33188
POINT 1 SIGMA = -45. V-REF = 202.05
COMPUTED FREQUENCY = 9.07, K = .0705

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	15.387	-13.107	6.537	-4.019	4.592	-3.058	2.966	-1.639	2.173	-.236	1.772	.335	1.343	.907
2	-1.485	.258	-.028	-.100	-.093	-.026	-.082	.026	.041	-.041	-.038	.065	.031	-.003
3	.723	.094	-.030	.067	-.020	-.007	-.001	.023	-.117	.069	.045	-.010	-.029	.066
4	-.120	-.234	.023	-.056	.004	-.029	.009	-.022	.010	.003	-.030	-.019	.010	.011
5	-.001	-.099	-.069	-.062	-.032	-.031	-.021	-.024	-.001	-.004	.007	.008	.001	.008
6	-.458	-.176	-.065	-.068	-.030	-.032	.003	-.038	.027	.024	-.009	-.035	.010	-.003
7	-.217	.098	-.062	.051	-.073	.032	-.028	.022	-.018	.038	-.063	-.013	-.039	-.022
8	.211	-.126	.026	-.061	.024	-.039	.001	-.018	-.031	-.041	.002	-.007	-.012	-.015
9	-.040	-.007	-.002	-.001	.003	-.017	-.012	-.005	-.005	-.030	.009	-.009	-.002	-.006
10	-.027	.027	-.022	-.021	-.016	-.029	-.011	-.019	.003	-.033	.015	-.021	.020	-.027

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.762	1.115	.347	.712	.784	.906
2	.008	.022	.002	.032	.030	-.010
3	.078	-.007	-.033	.029	-.003	.046
4	.006	.019	-.012	.032	.027	-.003
5	.023	.009	.005	.005	.001	-.024
6	-.043	.011	.015	.037	.029	-.012
7	-.065	-.008	-.018	-.012	-.022	-.021
8	.032	-.021	-.023	-.019	-.010	.013
9	.016	-.009	.012	-.018	.005	-.012
10	.000	-.026	.027	-.022	.008	-.021

N	CNREAL	CNIMAG
1	2.625	-.834
2	-.059	.008
3	.011	.031
4	.005	-.014
5	-.007	-.013
6	-.018	-.018
7	-.048	.010
8	.006	-.025
9	.001	-.012
10	.002	-.022

N	CMREAL	CMIMAG
1	.619	-.577
2	-.030	-.001
3	.006	.002
4	-.002	-.008
5	-.005	-.005
6	-.010	-.007
7	-.005	.007
8	.005	-.006
9	-.002	-.000
10	-.003	.000

*** STABILITY PARAMETER

```
*                 *
*  XI =    .5770  *
*                 *
*******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.441	-2.542	3.022	-2.214	-11.241	3.251	-1.965	-1.490	-1.813	7.291
2	-.792	.547	-.740	.219	-1.115	.788	-.689	.456	-.758	.384
3	1.046	-.582	.905	-.715	1.113	-.158	.938	-.505	.993	-.316
4	-.113	-.224	-.205	-.240	.156	-.030	-.033	-.225	-.151	.139
5	.007	.193	-.035	.220	.118	-.098	.057	.101	.234	.257
6	-.511	-.395	-.593	-.322	-.432	-.376	-.419	-.421	-.211	-.284
7	-.213	-.137	-.338	-.187	-.221	-.196	-.201	-.134	-.281	-.108
8	.313	.022	.412	-.057	.326	.126	.266	.037	.155	.141
9	.075	.050	.080	.049	.114	.166	.073	.090	-.081	.132
10	.037	.005	.009	-.078	.046	.060	.020	.046	.049	.127

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 103 ALPHA-MCL = 6.0 PDP RUN.PT 22.01
RUN 22 ALPHA-BAR = .5 Q-COMP = .33186
POINT 1 SIGMA = -45. V-REF = 202.05
COMPUTED FREQUENCY = 9.07, K = .0705

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	20.212	319.57	7.674	328.42	5.517	326.34	3.388	331.07	2.186	353.80	1.803	10.70	1.621	34.04
2	1.507	170.14	.104	254.35	.097	195.31	.085	162.50	.058	315.13	.076	120.61	.031	355.02
3	.729	7.42	.073	113.83	.021	198.62	.023	92.88	.136	149.52	.046	348.04	.072	113.93
4	.263	242.79	.061	292.51	.030	277.95	.024	292.05	.011	17.84	.019	269.18	.015	46.69
5	.099	269.20	.093	221.83	.045	223.89	.032	229.16	.004	259.22	.010	48.67	.008	80.41
6	.490	201.02	.094	226.35	.044	227.59	.039	274.42	.036	41.43	.036	255.25	.010	340.87
7	.239	155.72	.096	147.73	.080	156.16	.036	142.42	.042	115.06	.064	191.72	.045	209.81
8	.246	329.10	.066	293.00	.046	301.17	.018	273.83	.051	232.49	.008	283.77	.020	230.94
9	.040	189.55	.003	199.32	.017	281.18	.013	203.00	.031	261.35	.013	313.66	.007	249.15
10	.039	135.54	.030	223.27	.033	241.24	.022	241.11	.033	275.52	.026	304.82	.033	307.04

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.350	55.63	.792	64.00	1.199	49.13
2	.023	69.31	.032	86.58	.031	340.70
3	.078	355.03	.044	138.60	.046	90.11
4	.019	72.37	.034	110.17	.028	353.40
5	.025	22.33	.007	43.43	.024	271.42
6	.045	166.28	.040	68.21	.032	337.57
7	.065	187.32	.022	214.22	.030	223.92
8	.038	326.96	.030	220.19	.016	128.46
9	.018	330.70	.022	304.38	.013	292.49
10	.026	270.45	.035	320.81	.022	291.25

N	CN-MAG	PHIN
1	2.755	342.37
2	.060	172.76
3	.033	70.98
4	.015	287.54
5	.015	241.21
6	.026	224.47
7	.049	168.60
8	.026	284.50
9	.012	272.47
10	.022	274.64

N	CM-MAG	PHIM
1	.846	317.01
2	.030	181.63
3	.006	13.42
4	.008	257.33
5	.007	225.79
6	.012	215.18
7	.009	127.31
8	.007	309.19
9	.002	183.64
10	.003	175.93

*** STABILITY PARAMETER

```
*                *
* XI =     .5770 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.580	260.17	3.746	323.77	11.702	163.87	2.466	217.18	7.513	103.96
2	.963	145.33	.772	163.47	1.366	144.75	.826	146.50	.850	153.11
3	1.196	330.91	1.153	321.72	1.124	351.90	1.065	331.68	1.043	342.35
4	.251	243.26	.315	229.51	.159	349.21	.228	261.69	.205	137.47
5	.193	87.97	.223	99.10	.153	39.88	.116	60.48	.348	47.67
6	.646	217.72	.666	208.87	.573	221.07	.594	225.14	.421	222.36
7	.257	212.23	.386	208.91	.296	221.51	.241	213.61	.301	201.05
8	.310	4.08	.416	352.09	.349	21.19	.269	7.94	.209	42.23
9	.090	33.63	.094	31.24	.202	55.40	.116	50.93	.155	121.54
10	.009	33.36	.079	276.36	.076	52.90	.050	66.84	.136	69.09

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 105 ALPHA-MCL = 6.0 PDP RUN.PT 22.07
RUN 22 ALPHA-BAR = .5 Q-COMP = .33289
POINT 3 SIGMA = -45. V-REF = 202.36
COMPUTED FREQUENCY = 15.40, K = .1196

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-9.002	7.926	-3.780	1.876	-2.499	.698	-1.587	-.326	-1.195	-1.100	-.914	-1.682	-.617	-1.984
2	.411	-.202	-.343	.040	-.250	.045	-.247	.056	-.299	.089	-.335	.101	-.325	.103
3	-.040	-.062	.406	-.018	.400	.005	.388	-.018	.423	-.014	.431	-.018	.373	-.038
4	.014	.090	-.042	.121	-.046	.110	-.049	.141	-.057	.167	-.067	.159	-.063	.167
5	.034	.099	-.066	.059	-.077	.033	-.058	.016	-.072	-.006	-.075	-.012	-.050	-.021
6	.031	-.107	-.007	-.048	-.004	-.037	.013	-.033	.011	-.016	.003	-.028	.025	-.010
7	-.061	.031	-.034	-.072	-.033	-.009	-.029	-.024	-.037	-.018	-.021	-.014	-.009	-.023
8	.034	.038	.017	.073	.014	.077	.010	.072	.007	.078	.004	.076	.003	.074
9	-.042	-.010	-.040	-.011	-.043	-.020	-.038	-.013	-.035	-.016	-.033	-.015	-.028	-.008
10	-.019	-.022	-.005	-.025	.006	-.019	.012	-.022	.022	-.025	.015	-.026	.015	-.020

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.367	-1.860	-.158	-1.702	-.072	-1.484	4.696	-5.171	2.561	-2.333	1.699	-2.358	1.167	-1.771
2	-.331	.108	-.335	.090	-.326	.082	-.478	.174	-.342	.056	-.310	.107	-.320	.086
3	.402	-.024	.414	-.009	.408	-.036	.338	-.093	.400	-.033	.396	-.038	.393	-.011
4	-.069	.159	-.069	.168	-.063	.163	-.036	.138	-.032	.154	-.042	.158	-.054	.148
5	-.045	-.033	-.030	-.037	-.031	-.033	-.075	-.013	-.065	-.006	-.065	-.003	-.053	-.013
6	-.030	-.013	-.001	-.020	.003	-.020	-.003	.008	-.002	-.005	-.001	-.009	-.004	-.011
7	-.016	-.028	-.008	-.022	-.014	-.009	-.001	-.034	-.007	-.031	-.018	-.016	-.013	-.020
8	.001	.075	.008	.072	.006	.065	-.011	.058	-.001	.059	.000	.051	-.010	.056
9	-.030	-.009	-.030	-.008	-.029	-.002	-.024	-.023	-.033	-.015	-.028	-.022	-.024	-.029
10	.016	-.015	.019	-.014	.016	-.016	.017	-.011	.016	-.010	.013	-.014	.019	-.017

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.705	-1.196	.560	-1.138	.506	-.980	.381	-.623	-.050	-.813	.672	-.663
2	-.294	.090	-.358	.083	-.320	.086	-.311	.052	-.361	.114	-.317	.072
3	.370	-.027	.450	-.027	.390	-.019	.428	-.032	.362	-.044	.377	.009
4	-.047	.145	-.065	.163	-.056	.144	-.075	.154	-.073	.134	-.094	.143
5	-.051	-.007	-.041	-.019	-.022	-.013	-.026	-.027	-.027	-.023	-.009	-.032
6	-.007	-.014	-.011	-.011	-.015	-.017	-.008	.008	.001	-.019	-.003	-.020
7	-.012	-.009	-.018	-.017	-.012	-.009	-.023	-.012	.007	-.008	-.012	-.021
8	.006	.049	.005	.062	.006	.048	.008	.064	.012	.061	.009	.052
9	-.024	-.016	-.031	-.020	-.026	-.009	-.029	-.003	-.018	-.001	-.021	-.007
10	.013	-.011	.016	-.015	.011	-.012	.024	-.012	.009	-.008	.018	-.006

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 105 ALPHA-MCL = 6.0 PDP RUN.PT 22.07
RUN 22 ALPHA-BAR = .5 Q-COMP = .33289
POINT 3 SIGMA = -45. V-REF = 202.36
COMPUTED FREQUENCY = 15.40, K = .1196
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	11.994	138.64	4.220	153.61	2.595	164.40	1.620	191.60	1.625	222.63	1.915	241.49	2.078	252.74
2	.458	333.82	.345	173.41	.254	169.77	.254	167.25	.312	163.45	.350	163.15	.341	162.40
3	.074	237.20	.406	357.50	.400	.66	.388	357.37	.423	358.04	.432	357.58	.375	354.20
4	.091	81.11	.128	108.92	.119	112.51	.149	109.10	.177	108.74	.173	112.81	.179	110.81
5	.104	70.80	.088	138.15	.084	156.97	.060	164.77	.072	184.63	.076	189.07	.055	202.71
6	.111	286.07	.048	261.46	.037	264.06	.035	292.11	.019	305.40	.028	277.11	.027	338.58
7	.068	153.23	.034	183.54	.035	194.86	.038	218.72	.042	205.74	.025	212.60	.025	248.92
8	.051	48.18	.075	76.60	.079	79.56	.073	81.78	.078	85.02	.076	87.08	.074	87.75
9	.043	193.63	.042	194.89	.047	235.54	.040	199.57	.039	203.69	.037	204.81	.029	196.12
10	.029	229.32	.025	257.42	.020	286.04	.025	298.97	.034	311.64	.030	300.68	.025	305.86

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.896	258.82	1.709	264.69	1.485	267.24	6.985	312.25	3.451	317.91	2.906	305.79	2.121	303.37
2	.349	161.88	.347	164.93	.336	165.95	.509	159.98	.347	170.79	.328	161.03	.331	164.93
3	.403	356.55	.414	358.80	.410	355.02	.351	344.67	.401	355.23	.398	354.59	.393	358.35
4	.173	113.57	.182	112.37	.175	111.22	.142	104.45	.157	101.68	.164	104.99	.157	110.25
5	.056	215.86	.048	231.00	.045	226.87	.076	190.16	.066	185.68	.065	182.61	.055	194.26
6	.013	269.17	.020	265.69	.020	280.06	.009	109.19	.006	248.33	.009	263.00	.012	248.55
7	.032	239.82	.023	249.97	.017	211.33	.034	269.01	.032	257.39	.024	220.51	.024	236.04
8	.075	88.91	.072	89.92	.065	84.30	.059	100.88	.059	91.17	.051	89.78	.057	100.43
9	.031	196.35	.031	194.44	.029	183.59	.034	223.64	.036	205.27	.036	217.97	.037	230.05
10	.022	317.88	.023	324.22	.023	315.53	.020	325.68	.019	329.02	.019	311.94	.026	318.14

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.388	300.54	1.316	300.11	1.103	297.30	.730	301.40	.814	266.51	.944	315.39
2	.307	162.99	.368	166.94	.331	164.99	.316	170.49	.379	162.53	.325	167.18
3	.371	355.85	.451	356.63	.391	357.15	.429	355.74	.364	353.03	.377	1.37
4	.152	108.10	.176	111.87	.155	111.33	.171	116.08	.152	118.66	.171	123.52
5	.052	188.24	.045	204.31	.026	211.41	.037	226.14	.035	220.93	.033	253.69
6	.015	241.92	.016	224.32	.023	227.88	.011	132.44	.019	272.19	.020	260.50
7	.015	218.28	.025	223.05	.015	217.36	.026	208.27	.011	309.37	.024	240.67
8	.049	83.49	.062	85.46	.049	83.49	.065	82.64	.062	78.51	.053	79.63
9	.029	213.38	.037	213.22	.027	198.44	.030	185.57	.018	182.50	.022	198.02
10	.017	319.71	.022	316.04	.017	312.77	.027	333.13	.012	317.54	.019	341.17

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 105 ALPHA-MCL = 6.0 POP RUN.PT 22.07
RUN 22 ALPHA-PAR = .5 Q-COMP = .33289
POINT 3 SIGMA = -45. V-REF = 202.36
COMPUTED FREQUENCY = 15.40, K = .1196

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	13.698	-13.097	6.341	-4.189	4.199	-3.055	2.754	-1.445	1.901	-.095	1.574	.544	1.122	1.004
2	-.889	.376	.009	.016	-.060	.062	-.072	.030	.005	.001	-.023	-.018	.005	-.017
3	.378	-.031	-.006	-.016	-.004	-.042	.005	.006	-.053	-.012	.019	-.008	.017	.018
4	-.050	.048	.010	.033	.003	.048	-.006	.007	.010	-.023	.001	.004	.007	-.023
5	-.110	-.112	.001	-.065	.012	-.036	.005	-.029	.020	-.002	.034	-.006	.028	.008
6	-.034	.116	.005	.042	.003	.027	-.019	.021	-.019	.002	-.015	.017	-.041	-.007
7	.060	-.065	.027	-.029	.015	-.007	.016	.004	.025	.009	.003	-.004	-.003	.014
8	-.045	.020	-.018	-.014	-.014	-.026	-.021	-.016	-.001	-.029	.001	-.014	.003	-.026
9	.017	-.013	.007	-.005	.014	-.002	.014	-.015	.011	-.000	.003	-.005	.002	-.001
10	.036	.010	.021	.015	.007	.005	.007	.005	-.009	.014	.001	.011	-.003	.008

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.748	1.236	.108	.889	.744	.820
2	.020	-.056	-.026	.023	.009	-.010
3	.026	-.008	-.052	-.036	-.031	.045
4	-.006	-.005	-.004	-.035	-.031	-.020
5	.019	.006	.003	.014	.022	.001
6	-.007	.021	.002	.001	-.007	-.000
7	-.006	.016	.015	.013	.002	-.013
8	.007	-.010	.017	-.012	.003	-.013
9	.000	.006	.011	.007	.008	-.005
10	.007	.003	-.010	.006	.002	.010

N	CNREAL	CNIMAG
1	2.385	-.748
2	-.043	.013
3	.006	-.005
4	-.002	-.000
5	.014	-.014
6	-.013	.016
7	.011	-.001
8	-.005	-.017
9	.008	-.003
10	.003	.008

N	CMREAL	CMIMAG
1	.575	-.580
2	-.018	.011
3	.006	-.004
4	.001	.005
5	-.003	-.006
6	.000	.004
7	.003	-.002
8	-.003	-.000
9	.001	-.001
10	.001	.000

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.288	-1.336	3.550	-1.713	-10.142	4.306	-1.184	-.822	-1.017	7.582
2	-.357	.125	-.128	-.049	-.537	.473	-.384	.094	-.607	-.216
3	.568	-.055	.706	.104	.610	-.015	.514	-.006	.461	.156
4	-.077	.208	-.099	.233	.059	.169	-.058	.165	-.065	-.037
5	-.102	.031	-.085	.035	-.151	.098	-.066	.008	.015	.131
6	.022	.074	.153	.004	.081	-.030	.018	-.032	-.003	-.120
7	-.037	.033	-.010	-.019	-.059	-.066	-.038	-.023	-.051	.074
8	.010	.076	-.017	.077	.026	.125	.001	.094	.007	.089
9	-.038	-.007	-.044	-.052	-.069	-.011	-.037	-.002	-.011	.011
10	.014	-.020	.065	-.007	.009	-.050	.017	-.021	.006	-.020

*** STABILITY PARAMETER

*
* XI = .5799 *
*
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 105 ALPHA-MCL = 6.0 PDP RUN.PT 22.07
RUN 22 ALPHA-BAR = .5 Q-COMP = .33289
POINT 3 SIGMA = -45. V-REF = 202.36
COMPUTED FREQUENCY = 15.40, K = .1196

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	18.952	316.28	7.600	326.55	5.193	323.96	3.110	332.30	1.903	357.13	1.665	19.08	1.506	41.83
2	.966	157.07	.016	89.68	.086	134.50	.078	157.40	.005	10.06	.029	218.78	.018	285.78
3	.379	355.34	.017	249.61	.042	264.42	.008	50.76	.055	193.07	.020	335.89	.025	46.95
4	.069	135.88	.034	73.33	.048	86.19	.009	129.98	.025	292.67	.004	69.81	.024	287.47
5	.157	225.66	.065	270.52	.038	289.14	.030	279.33	.020	355.33	.035	349.33	.029	15.05
6	.120	106.30	.043	83.20	.028	84.41	.028	129.66	.019	172.87	.022	131.92	.041	189.82
7	.088	312.79	.040	312.92	.016	335.27	.016	12.58	.027	18.64	.005	306.69	.015	101.09
8	.049	156.26	.023	216.16	.030	241.69	.026	217.53	.029	267.59	.014	274.03	.026	275.77
9	.022	322.78	.009	327.17	.014	352.76	.021	312.03	.011	357.81	.005	302.63	.002	341.65
10	.037	16.38	.026	34.79	.009	35.04	.009	36.01	.017	123.48	.011	86.74	.009	112.17

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.445	58.82	.896	83.04	1.107	47.81
2	.060	289.61	.035	137.87	.013	314.50
3	.027	343.63	.063	214.38	.054	124.96
4	.008	219.13	.035	263.82	.037	212.81
5	.020	16.73	.014	77.04	.022	2.89
6	.022	109.34	.003	28.76	.007	181.13
7	.017	112.23	.020	41.67	.013	279.76
8	.012	303.98	.017	316.38	.013	282.84
9	.006	88.43	.013	31.43	.009	326.27
10	.008	20.96	.012	150.82	.010	78.46

N	CN-MAG	PHIN
1	2.499	342.59
2	.045	163.35
3	.008	322.18
4	.002	181.74
5	.019	314.14
6	.021	130.47
7	.011	356.52
8	.018	254.30
9	.008	337.99
10	.009	70.37

N	CM-MAG	PHIM
1	.817	314.75
2	.021	148.23
3	.007	327.16
4	.005	79.73
5	.007	245.62
6	.004	86.56
7	.004	322.24
8	.003	187.00
9	.001	317.99
10	.002	14.55

*** STABILITY PARAMETER

XI = .5799

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.861	278.91	3.942	334.24	11.019	157.00	1.442	214.77	7.650	97.64
2	.379	160.68	.137	200.99	.716	138.60	.395	166.19	.644	199.60
3	.571	354.43	.714	8.38	.611	358.60	.514	359.36	.487	18.70
4	.222	110.40	.253	112.96	.178	70.82	.175	109.45	.075	209.51
5	.106	163.13	.092	157.68	.180	147.00	.066	173.09	.132	83.68
6	.033	46.91	.153	1.60	.087	339.55	.037	298.94	.120	268.54
7	.037	175.90	.021	241.28	.089	228.14	.045	210.63	.090	124.26
8	.077	52.59	.078	102.18	.128	78.24	.094	89.38	.090	85.52
9	.039	191.03	.068	229.83	.069	189.04	.037	182.70	.015	136.32
10	.025	305.49	.055	352.60	.050	280.48	.027	309.01	.021	287.74

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 107   ALPHA-MCL = 6.0   PDP RUN.PT 22.09
RUN 22   ALPHA-BAR = .5   Q-COMP = .33116
POINT 5   SIGMA = -45.   V-REF = 201.82
COMPUTED FREQUENCY = 19.04, K = .1482

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-8.996	8.112	-4.588	2.045	-3.378	.822	-2.565	-.143	-2.298	-.963	-2.078	-1.548	-1.753	-1.815
2	.578	-.353	.026	-.299	.151	-.328	.114	-.281	.116	-.287	.097	-.258	.088	-.243
3	-.235	-.100	.030	.036	.060	.056	.050	.033	.049	.023	.058	.006	.067	.006
4	.041	.097	-.008	.089	-.028	.076	-.016	.073	-.031	.081	-.037	.080	-.029	.083
5	.020	.083	.025	.037	.019	.026	.009	.038	-.000	.032	-.015	.031	.001	.014
6	.015	-.120	.017	-.079	.024	-.074	.016	-.077	.023	-.070	.025	-.066	.019	-.055
7	.009	.037	.009	.043	.011	.043	.006	.044	-.010	.045	-.011	.039	.001	.031
8	-.044	-.027	-.045	-.046	-.036	-.039	-.034	-.046	-.035	-.052	-.029	-.057	-.027	-.058
9	.013	-.006	.005	.003	-.002	.000	-.006	.004	-.008	.010	-.003	.007	-.010	.004
10	.022	-.001	.036	-.022	.037	-.021	.039	-.023	.041	-.023	.039	-.025	.046	-.026

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.496	-1.699	-1.281	-1.537	-1.234	-1.282	3.361	-4.988	1.484	-2.132	.526	-2.074	-.048	-1.475
2	.068	-.235	.050	-.256	.082	-.257	-.022	-.261	.053	-.327	.077	-.296	.089	-.285
3	.071	.013	.063	.017	.076	.018	.055	.051	.074	.023	.067	.037	.065	.035
4	-.044	.073	-.045	.068	-.034	.049	.000	.062	-.035	.065	-.028	.062	-.032	.051
5	-.001	.018	.002	.027	.007	.025	-.004	.029	.005	.018	-.001	.021	-.000	.027
6	.014	-.046	.020	-.063	.010	-.048	.015	-.034	.019	-.054	.011	-.055	.030	-.054
7	-.008	.038	.003	.031	.004	.027	.001	.027	.003	.041	-.006	.044	-.015	.041
8	-.032	-.050	-.043	-.048	-.035	-.045	-.029	-.041	-.030	-.037	-.030	-.043	-.018	-.055
9	-.012	.007	-.014	.001	-.013	.004	-.021	-.005	-.014	-.004	-.013	-.004	-.017	-.011
10	.046	-.026	.054	-.027	.048	-.027	.050	-.034	.056	-.037	.065	-.032	.077	-.017

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.368	-.943	-.667	-.846	-.652	-.709	-.863	-.370	-1.165	-.507	-.463	-.697
2	.062	-.264	.093	-.324	.072	-.279	.066	-.349	.055	-.237	.091	-.303
3	.066	.032	.079	.041	.067	.045	.093	.039	.078	.029	.083	.015
4	-.027	.046	-.039	.046	-.025	.040	-.050	.047	-.026	.052	-.050	.044
5	.003	.023	.056	.022	-.003	.022	.014	.036	.019	.030	.001	.011
6	.012	-.057	.014	-.065	.009	-.051	.011	-.052	.014	-.068	.005	-.050
7	-.004	.037	-.013	.046	-.005	.036	-.012	.026	-.004	.031	-.007	.032
8	-.032	-.035	-.037	-.049	-.035	-.043	-.042	-.026	-.023	-.040	-.035	-.045
9	-.009	-.006	-.014	-.006	-.011	-.003	-.012	.004	-.011	-.001	-.016	.002
10	.048	-.027	.062	-.023	.051	-.022	.054	-.025	.041	-.021	.039	-.019

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 107 ALPHA-MCL = 6.0 PDP RUN.PT 22.09
RUN 22 ALPHA-BAR = .5 Q-COMP = .33116
POINT 5 SIGMA = -45. V-REF = 201.82
COMPUTED FREQUENCY = 19.04, K = .1482

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	12.114	137.96	5.023	155.98	3.476	166.33	2.569	183.18	2.491	202.74	2.592	216.68	2.523	226.00
2	.677	328.59	.300	274.93	.361	294.62	.304	292.13	.309	291.97	.276	290.60	.259	289.81
3	.255	202.98	.046	50.17	.082	42.75	.060	34.05	.054	24.59	.058	6.23	.067	4.98
4	.106	67.06	.089	95.14	.081	110.22	.075	102.16	.087	111.00	.088	114.55	.088	109.36
5	.086	76.31	.044	55.93	.032	54.01	.040	76.45	.032	90.31	.035	115.97	.014	86.17
6	.121	276.93	.080	282.06	.078	287.69	.078	281.84	.074	288.01	.071	291.06	.058	288.70
7	.039	75.99	.044	77.81	.045	75.79	.044	82.41	.046	102.72	.041	105.81	.031	88.05
8	.051	211.60	.064	225.69	.053	226.95	.057	233.71	.062	236.10	.064	242.85	.064	244.94
9	.015	334.36	.005	31.13	.002	177.74	.007	147.68	.013	126.67	.008	113.98	.011	159.19
10	.022	356.23	.042	329.00	.043	329.89	.045	330.21	.047	330.36	.046	327.19	.053	330.94

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.264	228.65	2.001	230.19	1.779	226.09	6.015	303.97	2.598	304.84	2.140	284.23	1.476	268.15
2	.245	286.16	.268	287.30	.270	287.68	.261	265.25	.331	279.27	.306	284.56	.298	287.36
3	.072	10.74	.065	14.84	.078	13.17	.075	42.57	.078	17.47	.076	29.17	.074	28.35
4	.085	121.17	.081	123.42	.059	124.65	.062	80.75	.074	118.48	.068	114.40	.060	121.75
5	.018	93.31	.027	85.19	.026	75.18	.029	97.32	.019	75.37	.021	93.42	.027	90.36
6	.048	287.00	.066	287.69	.049	281.49	.037	294.25	.057	288.97	.056	281.23	.062	298.53
7	.039	101.35	.031	84.81	.028	81.97	.027	87.73	.041	85.51	.044	97.70	.043	110.28
8	.059	237.47	.065	227.88	.057	232.21	.050	235.12	.048	230.63	.052	235.28	.057	252.17
9	.014	151.22	.014	177.60	.013	161.00	.022	194.10	.014	198.35	.013	197.09	.021	212.81
10	.053	330.69	.061	333.40	.055	330.49	.061	325.64	.067	326.99	.072	333.79	.079	347.61

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.012	248.68	1.077	231.76	.963	227.37	.939	203.20	1.270	203.51	.837	236.38
2	.271	283.18	.337	286.07	.288	284.40	.360	283.83	.244	283.07	.316	286.71
3	.073	26.11	.089	27.50	.081	34.00	.101	22.47	.083	20.21	.084	10.00
4	.053	120.55	.061	130.31	.048	122.07	.069	136.82	.058	116.51	.066	138.77
5	.023	82.84	.023	75.86	.022	96.94	.039	69.12	.036	58.36	.011	83.26
6	.058	281.75	.066	282.20	.052	280.12	.053	282.31	.070	281.98	.050	275.76
7	.037	95.69	.048	105.73	.037	97.97	.028	113.86	.031	97.59	.033	102.02
8	.048	227.67	.062	233.10	.055	230.95	.050	211.61	.046	240.38	.057	232.71
9	.011	215.26	.015	203.01	.012	196.92	.013	159.52	.011	184.77	.016	171.99
10	.053	335.49	.066	339.62	.056	337.09	.059	335.27	.046	333.24	.043	333.73

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 107 ALPHA-MCL = 6.0 PDP RUN.PT 22.09
RUN 22 ALPHA-RAP = .5 Q-COMP = .33116
POINT 5 SIGMA = -45. V-REF = 201.82
COMPUTED FREQUENCY = 19.04, K = .1432

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	12.358	-13.101	6.077	-4.177	3.904	-2.896	2.517	-1.333	1.930	.020	1.412	.702	1.100	1.106
2	-.600	.092	.028	-.028	-.074	.032	-.025	-.003	-.054	.023	-.004	-.066	-.016	-.036
3	.290	.150	.045	-.012	.006	-.019	.016	.002	.017	.010	.021	.035	.000	.039
4	-.041	-.035	-.027	-.024	-.000	-.013	-.016	-.021	.004	-.035	-.003	-.034	.004	-.042
5	-.024	-.054	-.020	-.019	-.020	-.005	-.009	-.012	.003	-.008	.021	-.009	-.004	.007
6	.000	.087	.002	.024	-.013	.019	.013	.022	-.011	.014	-.011	.001	-.009	.004
7	-.008	-.011	-.066	-.002	-.017	.000	-.021	-.033	.006	-.008	-.002	.007	-.006	.005
8	.015	-.014	.015	.009	.006	-.004	.016	-.009	.002	.016	-.008	.008	-.008	.015
9	-.034	.001	-.018	-.007	-.011	-.004	-.012	-.015	-.001	-.017	-.010	-.013	-.001	-.007
10	.028	-.033	.020	-.015	.028	-.010	.038	.006	.008	.001	.023	.002	.005	.004

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.633	1.330	.116	1.030	.770	.585
2	.018	-.114	-.025	.019	.009	-.046
3	.022	.025	.014	.012	.007	-.003
4	-.006	-.026	.019	-.016	-.016	-.005
5	.015	.018	.016	.003	-.005	-.013
6	-.003	-.006	-.006	-.005	-.005	-.001
7	-.004	-.012	-.007	-.030	-.011	.005
8	-.010	.024	.021	.008	.000	-.001
9	.000	-.002	.003	-.002	-.003	-.002
10	.008	.001	-.013	.006	-.009	.008

N	CNREAL	CNIMAG
1	2.236	-.672
2	-.036	-.021
3	.023	.016
4	-.006	-.025
5	-.001	-.006
6	-.005	.011
7	-.007	-.001
8	.002	.007
9	-.007	-.008
10	.014	-.000

N	CMREAL	CMIMAG
1	.533	-.567
2	-.012	.008
3	.005	-.000
4	-.001	-.001
5	-.002	-.002
6	.000	.004
7	-.001	-.000
8	.002	-.001
9	-.002	-.001
10	.003	-.002

*** STABILITY PARAMETER

```
*                *
*  XI =    .5673 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.185	-1.521	1.804	-1.360	-10.924	4.568	-2.508	-.651	-2.236	6.888
2	.170	-.438	.500	-.737	.065	.047	.115	-.318	-.360	-.637
3	.075	.077	.094	.031	.154	-.015	.043	.029	.436	.211
4	-.034	.083	-.028	-.072	.109	.091	-.026	.078	.007	-.135
5	.031	.057	.077	.043	-.016	.090	.023	.046	.198	.056
6	.015	-.096	-.017	-.077	.002	-.117	.034	-.071	-.098	-.190
7	.006	.058	-.001	.151	.020	.080	-.005	.067	.011	.100
8	-.046	-.048	-.026	-.071	-.034	-.084	-.047	-.067	-.053	-.147
9	-.010	.003	.031	.017	.005	.013	.002	.009	.024	.011
10	.079	-.039	.106	-.040	.060	-.043	.058	-.026	.080	-.056

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 107 ALPHA-MCL = 6.0 PDP RUN.PT 22.09
RUN 22 ALPHA-BAR = .5 Q-COMP = .33116
POINT 5 SIGMA = -45. V-REF = 201.82
COMPUTED FREQUENCY = 19.04, K = .1482

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	18.009	313.33	7.370	325.48	4.861	323.43	2.848	332.11	1.930	.61	1.577	26.44	1.560	45.15
2	.607	171.24	.039	314.47	.080	156.27	.026	187.75	.059	156.79	.066	266.74	.039	246.02
3	.327	27.38	.046	344.67	.020	288.65	.016	6.57	.019	30.38	.041	58.68	.039	89.74
4	.054	220.82	.036	222.52	.013	268.20	.027	233.07	.036	276.67	.034	265.07	.043	273.12
5	.059	246.12	.028	222.95	.021	195.12	.015	231.25	.009	290.25	.023	337.28	.008	116.06
6	.087	89.68	.024	85.62	.023	123.36	.026	58.88	.017	129.28	.011	175.01	.010	159.29
7	.013	232.15	.007	199.71	.017	179.11	.021	188.37	.010	309.86	.007	105.28	.008	141.65
8	.021	316.69	.017	31.86	.008	324.99	.018	332.10	.016	81.77	.011	133.06	.017	117.27
9	.034	178.15	.020	201.89	.012	199.75	.019	232.56	.017	265.04	.017	232.19	.007	264.60
10	.043	310.84	.025	323.58	.030	339.39	.038	8.57	.008	8.06	.023	4.97	.006	38.93

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.473	64.55	1.037	83.58	.967	37.21
2	.115	278.86	.031	142.51	.047	281.07
3	.034	48.27	.018	39.55	.008	335.35
4	.026	256.33	.025	320.00	.017	198.55
5	.023	50.91	.017	11.05	.014	248.71
6	.007	245.77	.007	218.81	.005	196.85
7	.012	251.54	.007	181.08	.012	156.58
8	.026	113.42	.022	21.37	.001	279.73
9	.002	276.35	.003	332.50	.004	213.03
10	.008	7.50	.014	153.90	.012	138.95

N	CN-MAG	PHIN
1	2.335	343.28
2	.041	210.70
3	.028	34.28
4	.026	257.51
5	.006	263.60
6	.012	114.16
7	.007	188.93
8	.007	69.32
9	.011	231.08
10	.014	358.79

N	CM-MAG	PHIM
1	.778	313.20
2	.015	148.70
3	.005	357.02
4	.002	205.86
5	.003	222.15
6	.004	83.36
7	.001	211.51
8	.002	321.07
9	.002	201.43
10	.004	333.97

*** STABILITY PARAMETER

* XI = .5673 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.928	232.08	2.259	323.00	11.840	157.31	2.591	194.56	7.242	107.99
2	.470	291.21	.890	304.12	.080	36.12	.338	289.88	.732	240.49
3	.107	45.61	.099	18.27	.155	354.60	.052	34.07	.484	25.88
4	.069	112.18	.078	248.68	.142	39.84	.082	108.25	.135	273.12
5	.064	61.48	.088	29.34	.091	99.85	.051	62.88	.205	15.81
6	.097	279.18	.075	257.24	.117	270.74	.079	295.31	.210	245.12
7	.058	83.80	.151	90.47	.083	76.15	.067	94.49	.101	83.57
8	.066	225.93	.076	249.76	.091	248.18	.076	241.06	.157	250.06
9	.011	161.96	.033	18.39	.014	68.82	.009	76.86	.026	24.20
10	.080	331.21	.113	339.29	.074	324.68	.063	336.12	.098	325.12

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 90 ALPHA-MCL = 6.0 PDP RUN.PT 20.04
RUN 20 ALPHA-BAR = .5 Q-COMP = .32345
POINT 1 SIGMA = 0. V-REF = 199.44
COMPUTED FREQUENCY = 9.09, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-8.653	2.133	-2.905	.963	-1.570	.533	-.498	.293	.249	.106	.825	-.007	1.226	-.139
2	-.154	.032	-1.087	-.476	-1.058	-.447	-1.105	-.536	-1.207	-.592	-1.314	-.646	-1.285	-.652
3	.268	-.216	.599	-.135	.628	-.135	.628	-.106	.707	-.125	.755	-.117	.748	-.108
4	-.328	-.005	-.608	-.264	-.598	-.301	-.571	-.345	-.592	-.372	-.624	-.390	-.583	-.371
5	.021	.011	.053	-.082	.048	-.096	.061	-.074	.048	-.069	.059	-.076	.043	-.065
6	.049	.036	.070	-.107	.059	-.103	.085	-.163	.096	-.096	.106	-.101	.098	-.091
7	.062	.018	.098	.009	.103	.008	.078	.004	.083	.007	.081	-.005	.083	-.008
8	.135	.018	.077	-.031	.047	-.030	.060	-.041	.052	-.059	.041	-.072	.039	-.081
9	-.017	.006	-.029	-.011	-.020	-.005	-.020	-.021	-.032	-.019	-.042	-.031	-.035	-.025
10	-.042	.076	-.061	.007	-.054	-.011	-.066	-.028	-.069	-.033	-.068	-.043	-.064	-.051

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.365	-.097	1.419	-.072	1.389	-.046	5.348	-1.241	2.624	.164	2.367	-.097	1.895	.044
2	-1.259	-.670	-1.271	-.717	-1.262	-.714	-1.195	-.589	-1.221	-.634	-1.231	-.602	-1.226	-.650
3	.722	-.100	.749	-.106	.742	-.124	.722	-.155	.698	-.108	.636	-.125	.692	-.127
4	-.566	-.379	-.555	-.379	-.574	-.347	-.583	-.340	-.590	-.389	-.573	-.372	-.549	-.384
5	.050	-.063	.052	-.079	.056	-.084	.059	-.065	.071	-.095	.042	-.089	.060	-.087
6	.094	-.084	.104	-.078	.094	-.089	.067	-.188	.071	-.143	.076	-.116	.088	-.095
7	.082	-.000	.088	-.001	.077	-.010	.059	.002	.094	-.008	.086	-.003	.077	.011
8	.044	-.092	.041	-.109	.037	-.115	-.055	-.083	.004	-.061	.027	-.066	.040	-.065
9	-.039	-.014	-.044	-.014	-.041	-.018	-.035	-.009	-.034	-.015	-.030	-.012	-.036	-.018
10	-.068	-.045	-.063	-.044	-.065	-.053	-.054	-.104	-.053	-.055	-.039	-.041	-.047	-.041

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.454	.141	1.627	.265	1.411	.194	1.307	.275	1.233	.133	1.217	.355
2	-1.102	-.594	-1.344	-.753	-1.177	-.657	-1.279	-.739	-1.192	-.638	-1.200	-.747
3	.640	-.107	.777	-.144	.702	-.124	.743	-.138	.668	-.109	.716	-.084
4	-.519	-.333	-.619	-.405	-.560	-.344	-.591	-.356	-.599	-.321	-.547	-.321
5	.050	-.076	.065	-.086	.065	-.083	.069	-.077	.066	-.066	.071	-.076
6	.078	-.093	.102	-.099	.085	-.089	.100	-.104	.104	-.093	.036	-.077
7	.074	-.001	.048	.009	.077	.008	.079	.013	.074	.011	.076	-.009
8	.042	-.078	.055	-.092	.051	-.094	.044	-.106	.050	-.114	.042	-.096
9	-.035	-.013	-.040	-.015	-.046	-.016	-.037	-.013	-.027	-.017	-.043	-.009
10	-.042	-.032	-.053	-.039	-.061	-.030	-.065	-.027	-.052	-.027	-.050	-.033

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 90 ALPHA-MCL = 5.0 PCP RUN.PT 20.04
RUN 20 ALPHA-PAR = .5 Q-COMP = .32345
POINT 1 SIGMA = 0. V-REF = 199.44
COMPUTED FREQUENCY = 9.09, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	8.912	166.15	3.069	161.66	1.658	161.25	.577	149.54	.271	23.12	.825	359.53	1.234	353.54
2	.157	168.36	1.127	203.65	1.148	202.92	1.228	205.32	1.344	206.14	1.464	206.20	1.440	206.91
3	.344	321.21	.614	347.25	.642	347.86	.637	350.43	.718	349.99	.764	351.20	.756	351.75
4	.329	180.92	.663	203.49	.669	206.71	.667	211.17	.699	212.12	.736	212.02	.691	212.45
5	.024	27.79	.097	302.89	.096	299.33	.095	309.52	.084	304.95	.096	307.79	.078	303.22
6	.361	36.08	.128	303.35	.118	299.96	.134	309.39	.135	315.04	.146	316.43	.134	317.26
7	.064	16.17	.098	5.28	.103	4.26	.078	3.31	.083	4.54	.081	356.71	.084	354.51
8	.136	7.38	.083	338.22	.056	327.13	.073	325.71	.079	311.24	.063	299.71	.090	295.80
9	.018	159.52	.031	201.36	.021	192.92	.029	227.26	.037	211.52	.053	216.64	.043	215.24
10	.086	113.86	.061	173.78	.055	191.91	.072	202.79	.077	205.51	.081	212.23	.082	218.61

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.368	355.92	1.421	357.10	1.390	358.12	5.490	346.93	2.629	3.57	2.369	357.66	1.896	1.34
2	1.426	208.61	1.459	209.42	1.450	209.48	1.332	206.23	1.376	207.43	1.344	206.63	1.387	207.93
3	.729	352.14	.756	351.94	.753	350.49	.739	347.85	.706	351.17	.698	349.70	.704	349.62
4	.681	213.82	.672	214.28	.671	211.16	.675	210.26	.706	213.38	.683	212.98	.670	214.97
5	.081	308.59	.094	303.35	.101	303.46	.088	312.0[illegible]	.118	306.66	.099	295.33	.106	304.58
6	.126	318.23	.130	323.07	.129	316.42	.199	289.76	.159	296.33	.138	303.18	.130	312.63
7	.082	359.95	.088	359.20	.077	352.63	.059	1.78	.095	355.07	.086	358.22	.078	7.97
8	.102	295.64	.116	290.64	.121	287.95	.100	236.13	.061	273.54	.071	292.50	.076	301.57
9	.041	199.41	.047	197.44	.044	203.36	.037	193.97	.038	204.10	.033	201.79	.040	207.26
10	.081	213.41	.077	214.74	.084	218.80	.117	242.57	.077	226.60	.057	226.30	.063	221.21

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.913-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.451	5.53	1.648	9.25	1.424	7.85	1.336	11.90	1.240	6.17	1.267	16.25
2	1.252	208.32	1.549	209.25	1.348	209.18	1.477	210.01	1.352	208.16	1.413	211.89
3	.649	350.53	.799	349.53	.713	349.96	.756	349.48	.676	350.73	.721	353.35
4	.617	212.66	.740	213.17	.657	211.53	.690	211.08	.680	208.17	.634	210.36
5	.092	303.44	.108	306.94	.105	307.94	.103	311.77	.093	314.84	.105	313.14
6	.121	309.90	.142	315.99	.123	313.68	.144	313.80	.139	318.13	.115	318.03
7	.074	359.11	.088	5.75	.078	6.02	.080	9.62	.074	8.15	.077	353.65
8	.089	298.51	.107	300.95	.107	298.36	.115	292.59	.124	293.62	.105	293.55
9	.037	201.03	.043	199.88	.049	199.75	.039	199.25	.032	211.53	.044	191.94
10	.052	216.08	.066	215.93	.068	206.64	.071	202.79	.058	207.53	.060	213.82

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 96 ALPHA-MCL = 6.0 PSP RUN.PT 20.04
RUN 20 ALPHA-BAR = .5 G-COMP = .32345
POINT 1 SIGMA = 0. V-REF = 199.44
COMPUTED FRECUENCY = 9.09, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	14.001	-3.374	5.529	-.799	3.936	-.630	2.393	-.248	1.205	.034	.802	.272	.184	.333
2	-1.041	-.620	-.134	-.156	-.144	-.155	-.121	-.114	.105	-.001	-.030	-.106	.107	-.006
3	.454	.060	.099	.027	.059	.010	.064	-.021	-.067	.018	.022	-.027	-.046	-.016
4	-.255	-.335	.019	-.124	.024	-.071	.022	-.039	.073	.039	.015	-.015	.023	.027
5	.038	-.076	.019	-.013	-.006	-.004	-.001	-.014	.002	-.008	.006	-.010	.022	-.018
6	.016	-.224	.000	-.076	.017	-.013	.003	.008	-.018	.003	-.004	.002	-.013	.002
7	-.003	-.016	-.007	-.017	-.017	-.010	-.001	.006	-.009	-.008	.007	.013	-.006	.016
8	-.191	-.100	-.073	-.030	-.020	-.036	-.021	-.023	-.009	-.019	.014	-.020	.012	-.014
9	-.019	-.015	-.006	-.004	-.010	-.008	-.016	.003	-.003	.006	.002	.017	-.011	.008
10	-.012	-.180	.005	-.063	.015	-.030	.019	-.014	.028	.033	.015	.004	.003	.021

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.058	.373	-.186	.205	-.173	.403
2	-.020	-.069	.079	.078	.062	-.033
3	.021	-.038	-.081	-.003	-.026	.041
4	-.025	.023	-.044	.058	.027	.026
5	.018	-.014	.014	.013	.016	.008
6	.006	-.020	-.001	-.015	-.008	.012
7	-.003	.013	-.015	.012	-.000	.002
8	-.000	-.014	.009	-.005	.005	.019
9	.002	.001	.017	-.003	-.002	.009
10	.002	.017	.011	.017	.015	.019

N	CNREAL	CNIMAG
1	1.771	-.086
2	-.039	-.081
3	.018	-.001
4	.010	-.016
5	.010	-.010
6	-.002	-.011
7	-.004	.003
8	-.012	-.019
9	-.005	.004
10	.012	-.007

N	CMREAL	CMIMAG
1	.610	-.141
2	-.032	-.021
3	.015	.002
4	-.001	-.015
5	-.001	-.002
6	.001	-.004
7	-.000	-.002
8	-.007	-.005
9	-.001	-.001
10	.001	-.008

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.168	.097	4.216	-.385	-9.440	1.472	.272	.139	-4.736	1.329
2	-1.533	-.773	-1.706	-1.086	-1.777	-.523	-1.462	-.715	-1.231	-.721
3	.850	-.146	.853	-.165	.873	.340	.812	-.153	.707	-.047
4	-.331	-.488	-1.026	-.458	-.808	-.128	-.706	-.461	-.562	-.339
5	.051	-.092	.008	-.002	.137	-.101	.055	-.081	.287	-.076
6	.077	-.177	-.077	-.089	.176	-.107	.119	-.148	.058	-.262
7	.042	.057	.060	.014	.163	.076	.103	-.005	-.210	.066
8	.065	-.054	.238	-.029	.152	-.072	.069	-.039	.027	-.115
9	-.053	-.063	-.143	-.012	-.038	-.010	-.061	-.038	-.208	.106
10	-.089	-.053	-.131	-.022	-.087	.019	-.093	-.038	-.064	-.038

*** STABILITY PARAMETER

* XI = .1414 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 90 ALPHA-MCL = 6.0 PDP RUN.PT 20.04
RUN 20 ALPHA-BAR = .5 Q-COMP = .32345
POINT 1 SIGMA = 0. V-REF = 199.44
COMPUTED FREQUENCY = 9.09, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	14.401	346.45	5.586	351.78	3.988	350.91	2.406	354.08	1.206	1.64	.847	18.73	.381	61.04
2	1.212	210.80	.207	229.65	.211	227.20	.166	223.26	.105	359.19	.110	254.22	.108	357.04
3	.458	7.58	.103	15.30	.059	10.01	.067	341.98	.069	165.01	.035	309.54	.049	198.91
4	.421	232.76	.125	278.55	.075	288.97	.044	299.70	.083	28.06	.015	287.78	.036	49.54
5	.085	296.47	.022	323.23	.007	211.71	.014	267.42	.008	287.30	.011	299.80	.028	321.23
6	.224	274.54	.036	270.43	.021	321.46	.008	68.54	.018	171.11	.004	151.62	.013	173.26
7	.016	258.36	.018	258.81	.020	210.66	.006	96.22	.012	220.63	.015	62.79	.017	110.38
8	.215	207.71	.079	202.17	.041	241.26	.031	228.62	.021	243.81	.025	305.12	.018	311.22
9	.024	218.43	.007	216.60	.013	216.05	.016	170.17	.007	114.87	.017	83.62	.014	143.41
10	.180	266.09	.063	277.33	.033	296.39	.023	323.66	.028	5.73	.016	16.42	.021	81.25

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.377	98.84	.277	132.17	.436	113.35
2	.072	253.85	.111	44.96	.071	332.04
3	.044	298.55	.081	182.08	.049	122.85
4	.034	137.16	.073	127.36	.037	44.74
5	.023	323.03	.019	42.96	.018	26.82
6	.021	286.44	.015	267.71	.014	123.30
7	.014	103.31	.019	141.35	.002	94.73
8	.014	269.66	.010	330.77	.020	76.55
9	.002	22.17	.017	350.85	.009	102.10
10	.017	82.17	.020	55.81	.025	51.02

N	CN-MAG	PHIN
1	1.773	357.23
2	.090	243.99
3	.018	355.81
4	.019	300.61
5	.014	313.97
6	.011	258.71
7	.005	145.56
8	.022	236.23
9	.006	141.11
10	.014	331.85

N	CM-MAG	PHIM
1	.626	346.96
2	.038	212.66
3	.016	6.13
4	.015	267.17
5	.002	245.18
6	.004	284.48
7	.002	256.82
8	.008	212.65
9	.002	215.09
10	.008	273.91

*** STABILITY PARAMETER

```
*                *
* XI =     .1414 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.192	4.65	4.233	354.78	9.554	171.14	.305	27.01	4.919	164.32
2	1.717	206.75	2.023	212.49	1.853	196.39	1.627	206.07	1.426	210.37
3	.861	350.67	.869	349.06	.874	2.62	.826	349.35	.709	356.18
4	.964	210.41	1.123	204.08	.818	189.00	.843	213.13	.656	211.06
5	.106	298.79	.008	344.84	.170	323.63	.098	304.15	.297	345.13
6	.192	292.32	.117	229.12	.235	318.24	.190	308.92	.268	282.56
7	.092	4.10	.062	12.67	.179	25.06	.103	356.95	.220	162.46
8	.085	320.32	.240	353.09	.168	334.64	.080	330.87	.118	283.06
9	.082	229.94	.143	184.66	.040	195.03	.072	212.03	.233	153.03
10	.104	210.96	.133	189.72	.089	167.79	.101	202.36	.074	210.30

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 92 ALPHA-MCL = 6.0 PDP RUN.PT 20.06
RUN 20 ALPHA-BAR = .5 Q-COMP = .32019
POINT 3 SIGMA = 0. V-REF = 198.41
COMPUTED FREQUENCY = 15.53, K = .1230

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-8.546	1.885	-2.612	.984	-1.278	.635	-.215	.360	.505	.250	1.153	.134	1.601	.184
2	-.003	-.035	-.276	-.427	-.232	-.324	-.267	-.392	-.290	-.398	-.327	-.420	-.328	-.417
3	.078	-.239	.069	-.204	.089	-.179	.066	-.156	.102	-.158	.085	-.133	.074	-.136
4	.075	.296	.284	.266	.261	.262	.282	.225	.317	.252	.348	.202	.343	.210
5	.112	.015	.094	.059	.072	.047	.048	.065	.047	.085	.026	.091	.008	.071
6	-.090	.056	-.054	.048	-.053	.040	-.055	.035	-.039	.037	-.034	.016	-.017	.037
7	-.006	.016	-.014	-.023	-.015	-.034	-.015	-.040	-.007	-.051	-.021	-.041	-.013	-.048
8	-.042	-.059	-.053	-.037	-.058	-.030	-.054	-.024	-.058	-.029	-.060	-.019	-.060	-.024
9	-.004	.043	-.022	.003	-.021	-.000	-.012	-.001	-.003	-.012	-.016	-.003	-.014	-.009
10	.020	-.026	-.025	-.025	-.026	-.025	-.032	-.032	-.031	-.036	-.043	-.031	-.040	-.027

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.666	.287	1.731	.407	1.654	.446	5.351	-.465	2.986	.690	2.571	.428	2.096	.680
2	-.317	-.414	-.324	-.453	-.358	-.443	-.342	-.483	-.272	-.437	-.296	-.416	-.292	-.427
3	.072	-.130	.070	-.135	.053	-.161	.112	-.053	.098	-.102	.096	-.131	.092	-.125
4	.346	.225	.371	.244	.375	.220	.319	.152	.329	.178	.322	.207	.293	.250
5	.009	.068	.012	.064	.004	.046	.052	.039	.059	.057	.057	.062	.042	.080
6	-.015	.038	-.020	.033	.000	.036	-.000	.041	-.003	.024	-.009	.022	-.012	.018
7	-.009	-.045	-.005	-.043	-.018	-.044	.001	-.018	-.003	-.032	-.005	-.032	-.002	-.035
8	-.059	-.014	-.063	-.018	-.064	-.012	-.056	-.009	-.050	-.017	-.049	-.017	-.044	-.037
9	-.008	-.010	-.011	-.010	-.009	-.008	-.001	-.028	-.010	-.021	-.002	-.022	.002	-.021
10	-.035	-.030	-.031	-.035	-.038	-.025	-.021	-.005	-.024	-.016	-.018	-.021	-.011	-.033

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.614	.746	1.806	1.016	1.555	.868	1.417	1.044	1.308	.746	1.406	1.076
2	-.271	-.403	-.339	-.497	-.310	-.440	-.331	-.468	-.301	-.467	-.326	-.463
3	.051	-.126	.078	-.177	.073	-.158	.054	-.151	.069	-.148	.055	-.161
4	.323	.205	.394	.280	.345	.240	.436	.258	.347	.236	.347	.239
5	.043	.058	.048	.076	.040	.054	.027	.072	.024	.051	.033	.043
6	-.009	.024	-.014	.031	-.015	.030	-.009	.027	-.011	.009	-.003	.053
7	-.004	-.032	-.013	-.037	-.009	-.033	-.019	-.049	-.007	-.055	-.013	-.034
8	-.047	-.016	-.054	-.022	-.053	-.013	-.060	-.024	-.052	-.019	-.057	-.009
9	-.001	-.019	.007	-.022	-.003	-.018	.004	-.014	.011	-.016	.006	-.012
10	-.020	-.027	-.023	-.031	-.024	-.028	-.026	-.036	-.030	-.029	-.033	-.027

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 92	ALPHA-MCL = 6.0	PDP RUN.PT 20.06
RUN 20	ALPHA-BAR = .5	Q-COMP = .32019
POINT 3	SIGMA = 0.	V-REF = 198.41

COMPUTED FREQUENCY = 15.53, K = .1230

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	8.751	167.56	2.791	159.35	1.427	153.58	.419	120.85	.563	26.36	1.161	6.61	1.611	6.57
2	.035	264.59	.509	237.[illegible]	.398	234.40	.475	235.69	.492	233.95	.532	232.08	.530	231.77
3	.252	288.03	.216	288.68	.200	296.52	.170	292.80	.189	302.83	.158	302.46	.155	298.54
4	.305	75.76	.389	43.10	.370	45.07	.361	38.62	.405	38.50	.402	30.09	.403	31.50
5	.113	7.46	.111	32.21	.086	33.18	.081	53.47	.097	61.24	.095	74.20	.072	83.51
6	.106	148.18	.073	138.23	.066	142.74	.065	147.79	.054	136.23	.038	155.12	.041	114.75
7	.017	111.16	.027	237.93	.037	245.53	.043	248.85	.052	261.85	.046	243.11	.050	255.50
8	.073	234.31	.064	214.93	.066	207.32	.059	204.32	.065	206.72	.063	197.22	.065	202.01
9	.043	95.87	.023	171.27	.021	180.26	.012	185.13	.012	256.02	.016	189.63	.017	211.76
10	.033	308.28	.035	225.69	.036	224.11	.045	224.45	.048	228.74	.053	215.90	.048	214.03

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.690	9.79	1.778	13.22	1.713	15.08	5.371	355.04	3.065	13.01	2.606	9.45	2.203	17.97
2	.521	232.56	.557	234.40	.569	231.03	.592	234.65	.515	238.16	.510	234.60	.517	235.63
3	.149	299.16	.153	297.44	.169	288.39	.124	334.57	.142	313.96	.163	306.24	.155	306.53
4	.413	33.05	.445	33.33	.435	30.35	.354	25.48	.374	28.42	.382	32.74	.385	40.46
5	.069	82.55	.065	79.72	.046	85.24	.065	36.73	.082	44.21	.084	47.54	.090	62.12
6	.041	111.20	.039	121.41	.036	89.25	.041	90.35	.024	96.16	.024	112.47	.022	122.10
7	.046	259.23	.043	263.45	.048	247.74	.018	271.80	.032	265.43	.032	261.34	.035	266.64
8	.061	192.98	.065	195.91	.065	190.24	.057	188.71	.053	198.89	.052	199.42	.058	220.11
9	.013	232.18	.014	222.83	.012	223.01	.028	268.08	.023	243.56	.022	265.84	.021	274.46
10	.046	220.53	.046	228.16	.045	213.41	.022	192.89	.029	213.17	.027	228.98	.034	251.47

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.778	24.82	2.073	29.37	1.780	29.17	1.760	36.39	1.506	29.70	1.770	37.43
2	.485	236.11	.601	235.79	.539	234.84	.574	234.71	.556	237.19	.566	234.91
3	.136	292.03	.193	293.79	.174	294.63	.161	289.46	.163	294.99	.170	288.75
4	.383	32.47	.483	35.44	.421	34.87	.506	30.62	.420	34.25	.422	34.52
5	.072	53.01	.090	57.55	.067	53.33	.077	69.22	.057	65.04	.055	52.52
6	.026	109.57	.034	114.87	.033	115.90	.028	109.00	.014	140.99	.053	92.86
7	.032	263.28	.039	250.44	.034	255.23	.053	248.93	.055	262.38	.037	249.30
8	.050	198.79	.058	201.81	.054	193.49	.064	202.27	.055	199.45	.058	189.17
9	.019	266.63	.024	288.14	.018	260.50	.014	285.10	.019	304.40	.013	295.33
10	.033	233.41	.039	233.24	.037	229.20	.045	233.59	.042	223.59	.042	219.14

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 92 ALPHA-MCL = 6.0 PDP RUN.PT 20.06
RUN 20 ALPHA-RAP = .5 Q-COMP = .32019
POINT 3 SIGMA = 0. V-REF = 198.41
COMPUTED FREQUENCY = 15.53, K = .1230

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	13.897	-2.350	5.598	-.295	3.849	-.207	2.311	.320	1.109	.496	.653	.883	-.046	.683
2	-.339	-.448	.004	-.010	-.064	-.092	-.025	-.035	.019	-.005	-.010	-.077	.018	-.024
3	.034	.166	.029	.102	.007	.048	.027	.031	-.051	.033	-.007	-.043	-.001	-.023
4	.244	-.143	.045	-.088	.060	-.055	.010	.024	.006	-.047	.046	.079	.002	.030
5	-.061	.024	-.035	-.002	-.015	.015	-.006	.015	-.004	-.028	.022	-.016	.032	-.017
6	.090	-.016	.052	-.024	.044	-.018	.043	-.016	.030	-.013	.020	.015	.002	-.007
7	.007	-.034	.012	-.009	.011	.002	.013	.005	.004	.019	.008	.004	.004	.015
8	-.014	.050	.002	.020	.009	.013	.009	-.013	.011	.013	.006	-.003	.008	.012
9	.003	-.070	.012	-.024	.020	-.022	.014	-.020	.002	-.008	.023	-.020	.011	-.009
10	-.042	.021	.000	.009	.008	.004	.021	-.001	.012	.009	.020	.000	.016	-.001

X =	.774		.860		.910		N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI						
1	-.249	.757	-.423	.339	-.248	.630	1	1.653	.350	1	.621	-.104
2	-.014	-.054	.023	-.015	.032	-.021	2	-.014	-.050	2	-.009	-.008
3	-.019	-.022	-.001	-.013	.001	-.000	3	-.003	.014	3	.002	.010
4	.090	.033	-.024	-.008	-.028	.019	4	.031	-.000	4	.006	-.009
5	.018	.004	.012	-.012	.029	-.003	5	.005	-.005	5	-.005	.001
6	.005	-.011	.009	-.024	-.003	.017	6	.024	-.007	6	.006	-.002
7	-.010	-.004	-.002	-.012	.005	.010	7	.005	.004	7	.001	-.001
8	-.000	-.011	.011	-.000	.007	.002	8	.006	.004	8	.000	.002
9	.011	-.004	.021	-.006	.014	-.004	9	.013	-.014	9	-.000	-.003
10	.009	-.006	.001	.006	.005	-.002	10	.010	.002	10	-.000	.001

*** STABILITY PARAMETER

* XI = .1036 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.430	.581	4.010	-.057	-9.102	1.532	.510	.354	-5.210	1.161
2	-.409	-.468	-.426	-.676	-.714	-.354	-.391	-.497	-.518	-.550
3	.154	-.181	.245	-.162	.039	-.105	.079	-.186	.039	-.033
4	.368	.309	.277	.383	.463	.559	.334	.285	.142	.777
5	.106	.042	.104	-.076	.202	.010	.060	.086	.391	.038
6	-.014	.020	-.121	.047	-.141	.111	-.063	.043	-.290	.148
7	-.020	-.026	-.096	-.081	-.023	.006	-.010	-.046	-.057	-.088
8	-.089	-.044	-.132	-.048	-.051	-.042	-.066	-.038	-.035	-.107
9	-.033	-.005	-.032	-.048	-.012	.015	-.027	-.018	-.076	.040
10	-.009	-.018	.014	-.052	-.026	-.076	-.033	-.038	.019	-.005

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 92 ALPHA-MCL = 6.0 PDP RUN.PT 20.06
RUN 20 ALPHA-BAR = .5 Q-COMP = .32019
POINT 3 SIGMA = 0. V-REF = 198.41
COMPUTED FREQUENCY = 15.53, K = .1230

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	14.094	350.40	5.605	356.99	3.855	356.92	2.333	7.89	1.215	24.11	1.098	53.50	.685	93.86
2	.562	232.87	.011	294.06	.112	235.31	.043	234.99	.020	345.05	.078	262.22	.030	307.56
3	.189	79.53	.107	74.04	.048	81.70	.041	49.64	.061	147.54	.044	260.96	.023	267.12
4	.283	329.56	.099	297.39	.082	317.74	.026	66.65	.047	277.34	.091	59.82	.030	86.58
5	.065	158.35	.035	182.96	.021	135.63	.016	111.14	.028	262.82	.027	324.46	.036	332.13
6	.092	350.18	.057	334.74	.047	337.72	.046	339.47	.033	336.40	.025	37.39	.007	289.56
7	.034	281.23	.015	323.92	.011	12.26	.014	19.49	.020	79.50	.009	26.89	.016	76.09
8	.052	105.46	.020	63.04	.016	53.83	.016	305.37	.017	50.83	.007	331.90	.014	56.73
9	.071	272.83	.027	295.92	.030	311.48	.024	305.02	.008	283.04	.030	319.44	.014	322.87
10	.047	153.37	.009	87.78	.009	28.95	.021	357.17	.015	38.30	.020	.09	.016	356.59

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.797	108.19	.542	141.27	.677	111.52
2	.056	255.21	.027	327.28	.039	327.16
3	.029	228.73	.013	264.35	.001	340.46
4	.095	20.10	.026	197.96	.034	145.51
5	.019	12.17	.017	314.98	.030	354.70
6	.012	296.20	.026	291.16	.017	100.24
7	.011	202.82	.012	258.60	.011	62.56
8	.011	268.65	.011	357.80	.007	18.83
9	.012	341.18	.022	344.93	.015	346.09
10	.010	325.73	.006	81.56	.005	340.14

N	CN-MAG	PHIN
1	1.690	11.95
2	.052	254.92
3	.015	101.20
4	.031	359.50
5	.007	318.53
6	.025	342.79
7	.006	38.99
8	.008	35.96
9	.019	312.15
10	.010	13.20

N	CM-MAG	PHIM
1	.630	350.53
2	.012	220.98
3	.011	77.93
4	.011	304.93
5	.006	164.46
6	.006	339.88
7	.001	333.70
8	.002	89.97
9	.003	269.43
10	.001	110.97

*** STABILITY PARAMETER

XI = .1036

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.544	22.13	4.011	359.19	9.230	170.44	.621	34.76	5.337	167.43
2	.622	228.83	.799	237.79	.397	206.38	.632	231.84	.755	226.70
3	.238	310.40	.294	326.54	.112	290.61	.202	293.13	.051	319.88
4	.481	40.03	.473	54.19	.726	50.32	.439	40.47	.790	79.64
5	.114	21.85	.128	323.80	.202	2.78	.105	54.98	.393	5.54
6	.025	125.52	.130	158.95	.180	141.79	.076	145.73	.325	152.97
7	.033	232.89	.126	220.19	.024	165.16	.047	258.01	.105	237.16
8	.099	206.57	.140	199.86	.066	219.88	.077	210.04	.113	251.98
9	.033	188.96	.058	236.15	.019	130.30	.033	212.74	.086	152.04
10	.020	241.98	.054	284.94	.081	251.00	.050	228.91	.020	345.68

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

```
FILE    94    ALPHA-MCL  = 6.0     PDP RUN.PT   20.08
RUN     20    ALPHA-BAR  =  .5       Q-COMP = .32337
POINT    5       SIGMA  =  0.        V-REF  = 199.41
         COMPUTED FREQUENCY = 19.04,     K = .1500
```

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-8.839	1.128	-3.210	.196	-1.898	-.180	-.847	-.379	-.194	-.520	.401	-.568	.862	-.520
2	.134	.212	.345	.266	.400	.342	.384	.345	.407	.380	.405	.378	.396	.371
3	.185	-.097	.176	-.127	.180	-.117	.202	-.102	.218	-.127	.189	-.121	.205	-.096
4	-.090	.051	-.084	-.023	-.070	-.042	-.047	-.055	-.055	-.056	-.046	-.081	-.032	-.061
5	.071	-.011	.043	-.002	.052	-.005	.044	.018	.054	.037	.043	.052	.019	.034
6	-.090	-.011	-.080	-.031	-.077	-.043	-.058	-.051	-.062	-.059	-.050	-.066	-.041	-.049
7	-.094	-.017	-.049	-.045	-.037	-.051	-.038	-.059	-.054	-.056	-.030	-.064	-.026	-.064
8	-.013	.022	-.007	.033	-.011	.039	-.011	.043	-.019	.047	-.013	.053	-.025	.047
9	-.008	-.013	-.016	-.004	-.023	.005	-.015	-.004	-.013	-.002	-.022	-.004	-.013	-.004
10	.006	-.015	-.002	-.012	.005	-.013	.001	-.016	-.003	-.008	-.008	-.013	-.000	-.017

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.943	-.362	.964	-.259	.895	-.158	4.630	-.997	2.418	.153	1.914	-.049	1.422	.177
2	.368	.356	.372	.359	.371	.348	.414	.238	.415	.322	.392	.303	.370	.317
3	.202	-.101	.219	-.097	.190	-.120	.198	-.123	.207	-.135	.187	-.145	.195	-.119
4	-.020	-.049	-.024	-.019	-.012	-.029	-.024	-.043	-.032	-.052	-.027	-.048	-.019	-.040
5	.019	.031	.007	.008	.014	.019	.010	.024	.016	.014	.030	.018	.023	.022
6	-.036	-.050	-.024	-.040	-.044	-.035	-.029	-.041	-.032	-.041	-.038	-.038	-.035	-.042
7	-.031	-.066	-.038	-.049	-.029	-.051	-.007	-.058	-.021	-.050	-.028	-.043	-.023	-.058
8	-.026	.045	-.027	.036	-.018	.039	-.015	.060	-.019	.041	-.033	.040	-.042	.031
9	-.013	-.004	.001	.000	-.009	.003	-.018	-.015	-.013	-.002	-.011	-.008	-.013	-.005
10	-.001	-.018	.001	-.012	.002	-.015	.016	-.015	.005	-.014	.009	-.016	.008	-.013

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.959	.301	.997	.491	.803	.368	.628	.517	.478	.210	.753	.521
2	.338	.311	.400	.383	.356	.336	.361	.361	.336	.351	.348	.370
3	.179	-.128	.223	-.161	.196	-.128	.216	-.161	.174	-.140	.177	-.120
4	-.022	-.027	-.022	-.015	-.021	.001	-.006	-.027	-.003	-.012	-.022	.017
5	.024	.008	.032	.014	.022	.019	.023	-.009	.017	.008	.018	.021
6	-.041	-.030	-.052	-.039	-.044	-.029	-.052	-.031	-.047	-.051	-.046	-.035
7	-.026	-.033	-.041	-.038	-.028	-.035	-.039	-.040	-.031	-.037	-.033	-.044
8	-.026	.034	-.033	.040	-.021	.031	-.030	.035	-.021	.036	-.015	.032
9	-.012	-.003	-.011	-.003	-.009	.000	-.001	.007	-.007	-.001	-.009	-.002
10	.001	-.010	.009	-.011	.001	-.012	-.007	-.004	.002	-.010	-.006	-.014

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 94 ALPHA-MCL = 6.0 PDP RUN.PT 20.08
RUN 20 ALPHA-BAR = .5 Q-COMP = .32337
POINT 5 SIGMA = 0. V-REF = 199.41
COMPUTED FREQUENCY = 19.04, K = .1500

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	8.910	172.73	3.216	176.51	1.906	185.42	.928	204.13	.555	249.59	.695	305.24	1.007	328.91
2	.251	57.78	.435	37.65	.526	40.56	.516	41.89	.557	43.08	.554	43.05	.543	43.11
3	.209	332.20	.217	324.08	.215	326.92	.226	333.27	.252	329.67	.225	327.37	.226	334.85
4	.103	150.24	.087	195.66	.082	211.11	.072	229.71	.078	225.71	.093	240.46	.069	242.47
5	.072	351.08	.043	356.93	.052	354.29	.048	21.82	.065	33.92	.067	50.19	.039	60.92
6	.091	186.95	.086	201.12	.088	208.91	.077	221.21	.085	223.69	.082	232.86	.064	229.85
7	.095	190.06	.066	222.63	.064	233.91	.070	237.48	.078	226.22	.071	245.23	.069	248.05
8	.025	120.26	.034	102.45	.041	106.12	.044	104.72	.051	112.36	.055	103.53	.053	118.10
9	.015	238.90	.017	193.97	.024	168.44	.015	193.30	.013	189.01	.022	191.62	.013	199.06
10	.016	291.74	.012	262.47	.014	288.80	.016	273.06	.009	248.32	.015	240.07	.017	268.99

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.010	338.99	.999	344.94	.909	350.02	4.736	347.85	2.423	3.63	1.915	358.53	1.433	7.09
2	.512	44.03	.517	44.02	.509	43.16	.478	29.92	.526	37.82	.495	37.68	.487	40.59
3	.226	333.59	.240	336.12	.225	327.75	.233	328.21	.248	326.85	.236	322.22	.228	328.68
4	.053	248.20	.030	218.49	.031	247.78	.049	240.76	.061	238.29	.055	240.57	.044	244.29
5	.036	58.10	.011	49.56	.024	52.29	.026	67.14	.021	42.00	.035	31.19	.032	44.22
6	.062	233.77	.046	238.90	.056	218.05	.050	234.64	.052	231.40	.054	225.13	.055	230.46
7	.073	245.00	.062	232.40	.058	240.44	.058	262.73	.054	247.27	.052	236.81	.062	248.62
8	.052	119.74	.046	126.84	.043	114.72	.062	103.83	.046	114.83	.052	129.31	.052	142.92
9	.013	197.51	.001	15.73	.010	163.35	.024	220.13	.014	190.25	.013	216.46	.013	200.34
10	.018	265.41	.012	275.92	.015	277.51	.022	317.24	.015	291.65	.018	299.74	.015	300.75

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.014	17.24	1.111	26.22	.884	24.64	.814	39.47	.522	23.76	.916	34.68
2	.459	42.55	.554	43.75	.489	43.34	.511	44.97	.486	46.23	.508	46.75
3	.220	324.33	.275	324.07	.234	326.94	.270	323.22	.223	321.13	.214	325.87
4	.035	231.11	.027	215.62	.021	176.10	.027	257.56	.012	256.56	.028	142.17
5	.025	17.85	.035	24.08	.029	41.91	.024	338.52	.019	24.76	.027	49.71
6	.051	216.47	.065	217.04	.053	213.92	.061	211.34	.070	227.32	.058	217.30
7	.042	231.40	.056	222.99	.045	231.75	.055	226.61	.049	229.75	.055	233.37
8	.043	126.93	.052	129.98	.038	123.52	.046	131.25	.042	120.58	.036	115.04
9	.012	196.09	.011	193.01	.009	179.52	.007	94.62	.007	191.30	.009	190.00
10	.010	275.61	.011	270.07	.012	274.05	.008	208.61	.011	282.83	.015	247.05

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 94 ALPHA-MCL = 6.0 PDP RUN.PT 20.08
RUN 20 ALPHA-BAR = .5 Q-COMP = .32337
POINT 5 SIGMA = 0. V-REF = 199.41
COMPUTED FREQUENCY = 19.04, K = .1500

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	13.468	-2.125	5.628	-.043	3.812	.131	2.269	.556	1.162	.821	.596	1.058	-.059	.888
2	.291	.026	.071	.056	-.008	-.039	-.014	-.028	-.068	-.070	-.034	.005	-.041	-.035
3	.013	-.025	.032	-.008	.007	-.027	-.007	-.017	-.039	-.001	.033	-.040	-.009	-.032
4	.066	-.094	.052	-.028	.043	-.005	.028	.015	.033	.029	.024	.065	.011	.062
5	-.061	.035	-.027	.017	-.022	.024	-.022	.005	-.030	-.029	-.012	-.038	.002	-.015
6	.051	-.030	.047	-.010	.039	.005	.023	.009	.021	.029	-.002	.026	-.002	.020
7	.036	-.041	.028	-.005	.009	.008	.015	.001	.028	.024	-.011	.026	-.002	.028
8	-.002	.039	-.012	.009	-.021	.001	-.030	-.011	-.006	-.013	-.021	-.013	.004	-.015
9	-.010	-.002	.003	.002	.012	-.013	.002	-.001	.001	-.001	.010	.002	.004	.004
10	.010	.001	.007	-.002	.005	-.003	.007	.003	.004	-.002	.008	.002	.001	.006

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.315	.879	-.486	.470	-.142	.679
2	-.007	.005	-.036	-.008	-.023	.022
3	.014	-.061	-.046	-.043	-.013	-.000
4	.014	.022	.021	.007	-.011	.046
5	.004	-.039	.010	-.000	.003	.002
6	-.015	.018	-.023	-.011	-.002	-.001
7	-.057	.026	.007	.012	-.004	.006
8	-.035	-.010	.006	-.001	.003	-.007
9	.012	.011	-.008	-.002	.001	-.004
10	-.006	.014	.001	.002	-.008	.001

N	CNREAL	CNIMAG
1	1.630	.555
2	-.009	-.014
3	-.002	-.024
4	.024	.024
5	-.013	-.010
6	.011	.011
7	.009	.013
8	-.010	-.007
9	.004	-.000
10	.003	.002

N	CMREAL	CMIMAG
1	.613	-.081
2	.007	-.001
3	.002	.001
4	.005	-.006
5	-.004	.003
6	.006	-.001
7	.004	-.002
8	-.002	.001
9	.000	-.001
10	.001	-.001

*** STABILITY PARAMETER

*   *
* XI =   .0812 *
*   *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.503	-.359	2.888	-1.039	-9.815	.353	-.321	-.523	-5.474	-.210
2	.625	.394	.647	.020	.163	.650	.504	.435	.217	.670
3	.281	-.184	.366	-.209	.183	-.182	.264	-.153	.179	-.310
4	-.085	-.066	-.144	-.096	-.013	.063	-.069	-.077	-.072	.121
5	.060	.017	.122	-.052	.061	.020	.072	.021	.169	.017
6	-.074	-.055	-.085	-.097	-.092	-.098	-.076	-.069	-.097	-.076
7	-.038	-.073	-.027	-.033	-.052	-.077	-.041	-.074	-.010	-.105
8	-.015	.032	-.040	.030	-.007	.039	-.032	.061	.017	.080
9	-.022	.004	-.024	.021	-.021	-.001	-.023	-.003	-.014	.022
10	.006	-.012	.034	-.024	.027	-.051	.012	-.032	.022	-.028

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	94	ALPHA-MCL = 6.0		PDP RUN.PT	20.08
RUN	20	ALPHA-BAR = .5		Q-COMP =	.32337
POINT	5	SIGMA = 0.		V-REF =	199.41

COMPUTED FREQUENCY = 19.04, K = .1500

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE

*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	13.635	351.03	5.628	359.57	3.814	1.97	2.336	13.77	1.423	35.23	1.215	60.62	.890	93.80
2	.282	5.38	.090	38.60	.040	259.12	.031	242.73	.098	225.54	.037	131.45	.054	221.07
3	.029	297.80	.033	345.55	.028	283.70	.018	247.37	.039	181.29	.052	309.66	.033	254.57
4	.115	304.94	.059	331.47	.044	352.81	.032	29.23	.044	41.50	.070	69.67	.063	80.07
5	.070	150.30	.032	148.51	.032	132.66	.022	168.09	.042	223.43	.039	252.88	.015	279.04
6	.068	333.74	.048	348.43	.040	6.66	.025	20.41	.035	54.25	.026	95.22	.020	97.02
7	.096	334.37	.028	350.13	.012	41.30	.015	4.11	.037	40.39	.028	113.50	.028	94.66
8	.039	93.35	.014	144.99	.021	178.58	.032	200.80	.014	242.76	.025	212.90	.016	285.28
9	.011	193.08	.003	30.04	.018	313.92	.003	335.05	.002	311.69	.011	10.12	.006	50.91
10	.010	3.04	.007	347.26	.005	330.06	.007	23.71	.005	330.48	.008	15.58	.006	78.49

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.934	109.70	.676	136.00	.693	101.83
2	.009	144.98	.037	193.24	.032	136.82
3	.062	282.53	.063	223.10	.013	180.38
4	.026	58.33	.022	18.74	.047	103.12
5	.040	275.24	.010	357.77	.004	34.71
6	.024	129.84	.026	206.24	.002	196.75
7	.027	105.66	.014	61.77	.008	122.77
8	.011	245.92	.006	353.73	.006	293.25
9	.016	42.90	.008	192.05	.004	279.08
10	.015	111.12	.002	53.86	.008	175.14

N	CN-MAG	PHIN
1	1.722	18.80
2	.016	237.96
3	.024	266.00
4	.034	44.86
5	.016	216.70
6	.016	44.52
7	.016	57.45
8	.012	214.58
9	.004	358.67
10	.003	40.39

N	CM-MAG	PHIM
1	.619	352.45
2	.007	349.77
3	.002	35.01
4	.007	310.25
5	.005	142.82
6	.006	353.12
7	.004	331.96
8	.003	150.57
9	.001	279.27
10	.001	330.94

*** STABILITY PARAMETER

* XI = .0812 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.617	324.50	3.070	340.21	9.822	177.94	.614	238.47	5.478	182.20
2	.739	32.22	.648	1.81	.670	75.92	.666	40.79	.704	72.05
3	.335	326.79	.421	330.23	.258	315.19	.305	329.88	.357	300.02
4	.108	217.75	.173	213.62	.065	101.89	.104	228.05	.141	121.01
5	.062	16.04	.133	336.93	.064	18.58	.075	16.04	.170	5.86
6	.092	216.65	.129	228.69	.134	226.73	.103	222.22	.124	218.23
7	.082	242.53	.043	230.06	.093	236.17	.085	241.23	.106	264.76
8	.036	114.86	.050	143.41	.040	100.06	.069	117.57	.082	77.83
9	.023	171.03	.032	139.21	.021	182.17	.023	187.40	.026	121.79
10	.013	298.96	.042	324.12	.058	297.90	.034	289.79	.036	308.51

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 96 ALPHA-MCL = 6.0 PDP RUN.PT 21.04
RUN 21 ALPHA-BAR = .5 Q-COMP = .32119
POINT 1 SIGMA = 45. V-REF = 198.71
COMPUTED FREQUENCY = 9.08, K = .0718

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-13.756	-5.179	-6.429	-.733	-4.629	-.101	-3.397	.483	-2.794	1.067	-2.332	1.529	-1.945	1.893
2	-.674	.869	.657	1.028	.596	1.089	.640	1.113	.704	1.223	.753	1.270	.769	1.263
3	.067	.619	.484	.815	.467	.815	.472	.837	.501	.900	.536	.939	.528	.942
4	-.146	.044	-.213	-.127	-.226	-.160	-.203	-.121	-.199	-.155	-.202	-.146	-.204	-.132
5	.093	-.067	.315	-.237	.297	-.267	.321	-.238	.337	-.248	.376	-.279	.359	-.291
6	.038	-.233	.324	-.429	.348	-.401	.358	-.383	.405	-.369	.419	-.371	.377	-.355
7	-.118	.123	-.072	.190	-.077	.172	-.074	.163	-.091	.177	-.075	.173	-.061	.185
8	-.031	.069	.043	.136	.067	.132	.065	.145	.072	.151	.091	.168	.088	.162
9	.001	.027	.060	.030	.078	.010	.083	.025	.094	.038	.090	.046	.081	.057
10	-.037	-.031	-.035	-.053	-.046	-.050	-.047	-.053	-.029	-.066	-.030	-.078	-.041	-.064

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.725	1.841	-1.683	1.723	-1.697	1.651	4.837	3.721	.826	2.842	.725	2.354	-.052	2.071
2	.748	1.237	.742	1.264	.781	1.261	.966	1.044	.802	1.209	.800	1.114	.766	1.162
3	.492	.925	.512	.951	.552	.949	.531	.832	.547	.875	.541	.850	.519	.879
4	-.201	-.139	-.209	-.152	-.211	-.147	-.174	-.147	-.181	-.178	-.203	-.149	-.200	-.147
5	.354	-.269	.358	-.273	.337	-.289	.245	-.295	.304	-.295	.302	-.270	.314	-.252
6	.367	-.327	.382	-.329	.336	-.341	.369	-.411	.387	-.377	.372	-.356	.373	-.306
7	-.049	.176	-.052	.189	-.027	.189	-.035	.200	-.042	.190	-.045	.194	-.063	.179
8	.079	.159	.099	.164	.095	.158	.128	.140	.125	.141	.113	.146	.087	.162
9	.071	.055	.069	.054	.064	.049	.090	-.035	.111	.013	.099	.022	.086	.044
10	-.037	-.057	-.040	-.056	-.039	-.047	-.024	-.036	-.033	-.032	-.044	-.031	-.036	-.042

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.505	1.620	-.922	1.824	-.943	1.497	-1.544	1.378	-1.441	1.271	-1.813	1.206
2	.651	1.080	.812	1.318	.711	1.157	.733	1.311	.733	1.209	.721	1.156
3	.479	.808	.582	1.003	.512	.894	.549	.997	.502	.886	.515	.914
4	-.165	-.131	-.222	-.148	-.201	-.122	-.211	-.122	-.204	-.123	-.140	-.125
5	.295	-.254	.365	-.299	.326	-.277	.353	-.289	.313	-.278	.338	-.253
6	.323	-.317	.402	-.360	.342	-.329	.354	-.326	.324	-.336	.315	-.299
7	-.030	.184	-.046	.224	-.034	.198	-.033	.228	-.029	.213	-.041	.180
8	.099	.150	.127	.187	.096	.170	.110	.164	.087	.160	.113	.156
9	.077	.026	.054	.047	.076	.042	.074	.053	.042	.057	.059	.058
10	-.046	-.027	-.055	-.036	-.053	-.032	-.059	-.040	-.063	-.051	-.039	-.038

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 96 ALPHA-MCL = 6.0 PDP RUN.PT 21.04
RUN 21 ALPHA-PAR = .5 Q-COMP = .32119
POINT 1 SIGMA = 45. V-REF = 198.71
COMPUTED FREQUENCY = 9.08, K = .0718

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

	= .012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	14.699	200.63	6.470	186.51	4.631	181.25	3.431	171.91	2.[illegible]91	159.09	2.768	146.74	2.715	135.77
2	1.100	127.82	1.220	57.41	1.241	61.32	1.284	60.10	1.411	60.06	1.476	59.34	1.479	58.67
3	.623	83.85	.948	59.29	.939	60.19	.961	60.55	1.030	60.89	1.081	60.27	1.080	60.72
4	.153	163.39	.248	210.80	.277	215.25	.236	210.82	.252	217.90	.249	215.81	.243	212.97
5	.115	324.44	.394	323.03	.399	318.05	.400	323.39	.419	323.65	.468	323.46	.463	320.96
6	.236	279.37	.538	307.10	.530	310.97	.524	313.10	.548	317.64	.559	318.50	.518	316.72
7	.170	133.74	.203	110.81	.189	113.97	.179	114.58	.199	117.27	.189	113.53	.194	108.17
8	.106	139.35	.142	72.40	.148	63.15	.159	65.98	.167	64.42	.191	61.69	.184	61.45
9	.027	88.26	.085	20.48	.079	7.00	.087	17.03	.101	22.13	.101	27.11	.099	34.93
10	.049	220.26	.063	236.83	.067	227.27	.071	228.09	.073	246.06	.083	248.56	.076	237.13

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.523	133.15	2.409	134.33	2.367	135.78	6.103	37.57	2.960	73.79	2.464	72.89	2.071	91.43
2	1.445	58.82	1.466	59.56	1.483	58.23	1.422	47.22	1.451	56.43	1.371	54.32	1.392	56.61
3	1.048	61.99	1.080	61.70	1.098	59.81	.987	57.49	1.032	57.97	1.008	57.55	1.021	59.44
4	.245	214.76	.258	215.91	.257	214.83	.227	220.20	.254	224.50	.252	216.28	.248	216.32
5	.445	322.77	.450	322.63	.444	319.36	.383	309.66	.423	315.89	.405	318.25	.402	321.25
6	.491	318.32	.504	319.21	.479	314.57	.553	311.94	.540	315.76	.515	316.31	.482	320.63
7	.183	105.54	.196	105.32	.191	98.05	.203	99.94	.194	102.35	.199	103.12	.189	109.52
8	.177	63.42	.192	58.95	.184	59.07	.189	47.57	.188	48.43	.185	52.16	.184	61.84
9	.090	37.58	.088	38.05	.081	37.39	.097	339.00	.111	6.92	.101	12.40	.097	26.82
10	.068	236.84	.069	234.24	.061	230.21	.043	236.22	.046	224.00	.054	215.40	.055	230.04

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.697	107.32	2.043	116.81	1.769	122.21	2.069	138.24	1.921	138.59	2.178	146.37
2	1.266	58.55	1.548	58.38	1.358	58.41	1.502	60.80	1.414	58.78	1.362	58.05
3	.940	59.32	1.160	59.89	1.030	60.20	1.138	61.17	1.019	60.45	1.049	60.62
4	.227	215.37	.267	213.72	.235	211.26	.243	209.99	.239	211.06	.187	221.78
5	.389	319.31	.472	320.69	.427	319.68	.456	320.75	.419	318.44	.422	323.20
6	.453	315.58	.535	318.14	.474	316.07	.481	317.40	.467	313.95	.435	316.55
7	.186	99.32	.229	101.71	.201	99.72	.231	98.24	.215	97.83	.184	102.72
8	.180	56.59	.224	56.68	.197	60.01	.197	56.18	.182	61.37	.192	53.98
9	.082	19.74	.105	26.56	.086	29.06	.091	35.24	.071	53.54	.083	44.73
10	.054	210.67	.066	213.38	.062	210.76	.071	213.92	.080	218.93	.054	224.07

OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 96 ALPHA-MCL = 6.0 PRE RUN.PT 21.04
RUN 21 ALPHA-BAR = .5 J-COMP = .32119
POINT 1 SIGMA = 45. V-REF = 198.71
COMPUTED FREQUENCY = 9.08, K = .0718

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	18.594	8.899	7.255	3.575	5.354	2.455	3.345	1.588	2.288	.553	1.410	.294	1.002	-.396
2	1.640	.175	.145	.181	.204	.025	.126	.049	-.044	-.143	.059	.049	-.058	-.107
3	.464	.213	.063	.060	.074	.035	.047	.043	-.021	-.092	.046	.065	-.016	-.048
4	-.027	-.190	.037	-.051	.023	.010	.003	-.026	.014	.023	-.020	-.002	.003	.010
5	.151	-.228	-.011	-.058	.005	-.003	-.007	-.013	-.042	-.005	-.011	-.020	-.033	.015
6	.331	-.179	.063	.052	.024	.045	.015	.077	-.082	.052	-.017	.011	-.036	.026
7	.083	.077	.031	-.001	.031	.022	.011	.016	.061	.007	.029	.051	.027	.013
8	.206	.071	.082	.005	.047	.014	.022	.017	.027	-.001	.033	.019	.010	.008
9	.089	-.061	.031	-.016	.020	.012	.003	.018	-.017	-.011	.004	.001	-.005	-.015
10	.013	-.005	.001	.021	.002	.018	.012	.010	-.017	.039	-.025	.041	-.012	.032

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.182	-.462	.243	-.453	-.117	-.445
2	-.016	.074	-.009	-.055	-.060	-.105
3	.057	.072	-.010	-.065	-.037	-.035
4	-.010	.018	.005	.028	.071	.022
5	-.001	-.019	-.045	-.004	.001	.036
6	-.013	.001	-.058	-.007	-.021	.042
7	.016	.052	.023	.024	-.014	-.010
8	.030	.005	-.012	-.005	.018	-.002
9	.003	-.002	-.027	.003	-.006	.009
10	-.022	.017	-.022	.005	.000	.010

N	CNREAL	CNIMAG
1	2.676	.921
2	.064	-.004
3	.035	.011
4	.009	-.002
5	-.010	-.014
6	-.005	.028
7	.026	.022
8	.033	.010
9	.003	-.002
10	-.008	.022

N	CMREAL	CMIMAG
1	.791	.429
2	.043	.013
3	.013	.007
4	-.001	-.006
5	.003	-.007
6	.010	.001
7	.004	.001
8	.007	.002
9	.004	-.001
10	.002	.000

*** STABILITY PARAMETER

* XI = -.4287 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.772	2.001	.469	.682	-14.231	-2.030	-3.100	.982	-5.820	-5.588
2	1.055	1.568	.862	1.614	.724	1.138	.829	1.410	.697	1.160
3	.709	1.135	.896	1.167	.452	1.147	.636	1.106	.883	.838
4	-.328	-.216	-.230	-.154	-.402	-.099	-.276	-.200	.025	.103
5	.379	-.356	.421	-.318	.497	-.275	.406	-.334	.302	-.477
6	.464	-.614	.372	-.860	.477	-.613	.500	-.504	.667	-.386
7	-.098	.270	-.110	.132	-.078	.257	-.110	.205	-.074	.193
8	.149	.201	.371	.322	.041	.233	.080	.155	.020	.073
9	.141	.346	.136	.027	.056	.010	.118	.048	.036	-.017
10	-.066	-.339	-.371	.048	-.028	-.113	-.058	-.060	-.017	-.127

ORIGINAL PAGE IS
OF POOR QUALITY

CCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 96 ALPHA-MCL = 6.0 PDP RUN.PT 21.04
RUN 21 ALPHA-PAR = .5 Q-COMP = .32119
POINT 1 SIGMA = 45. V-REF = 198.71
COMPUTED FREQUENCY = 9.03, K = .0718

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	20.613	25.58	8.088	26.23	5.891	24.64	3.703	25.39	2.354	13.58	1.440	11.79	1.078	338.43
2	1.649	6.08	.232	51.26	.206	7.00	.135	[illegible]	.149	252.96	.077	39.61	.121	241.55
3	.510	24.68	.087	43.42	.082	25.65	.064	[illegible]	.094	256.83	.079	54.77	.051	251.30
4	.192	261.80	.060	302.75	.025	24.68	.026	276.92	.027	59.57	.020	186.58	.011	72.95
5	.274	303.52	.059	259.41	.006	331.10	.015	242.43	.043	187.23	.023	241.09	.037	156.00
6	.376	331.64	.061	39.53	.051	61.47	.078	79.08	.097	147.29	.020	147.95	.044	143.74
7	.113	43.08	.031	358.94	.038	34.70	.019	54.62	.061	6.94	.059	60.62	.030	25.98
8	.220	18.74	.082	3.79	.049	16.76	.028	37.30	.027	358.65	.038	30.40	.013	39.70
9	.108	325.55	.035	331.98	.024	30.63	.019	79.45	.020	212.00	.004	12.91	.016	249.62
10	.014	340.12	.023	86.67	.018	85.21	.016	41.16	.042	113.25	.048	120.60	.034	109.96

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.497	291.46	.514	298.19	.460	255.29
2	.076	101.81	.056	260.38	.121	240.23
3	.091	51.72	.066	261.53	.051	222.81
4	.020	118.37	.029	80.28	.074	17.10
5	.019	267.16	.045	185.64	.036	88.50
6	.013	176.53	.058	186.71	.047	116.09
7	.054	72.86	.033	46.43	.017	215.04
8	.031	9.43	.013	201.89	.019	352.38
9	.004	326.41	.027	174.00	.011	121.38
10	.028	141.52	.023	167.06	.010	87.04

N	CN-MAG	PHIN
1	2.830	18.98
2	.064	356.99
3	.037	16.93
4	.010	347.62
5	.017	232.92
6	.028	100.80
7	.034	39.52
8	.034	16.32
9	.004	330.41
10	.024	110.50

N	CM-MAG	PHIM
1	.899	28.47
2	.045	37.10
3	.015	30.04
4	.007	261.75
5	.007	292.28
6	.010	7.94
7	.004	8.90
8	.007	16.88
9	.004	349.49
10	.002	10.37

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.673	131.52	.828	55.51	14.375	188.12	3.251	162.42	8.068	223.83
2	1.890	56.06	1.830	61.91	1.349	57.56	1.636	59.55	1.353	59.00
3	1.338	58.01	1.471	52.49	1.232	68.50	1.276	60.08	1.217	43.51
4	.393	213.36	.277	213.74	.414	193.65	.341	216.01	.106	76.19
5	.520	316.73	.528	322.93	.568	331.02	.526	320.56	.565	302.37
6	.769	307.10	.937	293.38	.777	307.86	.710	314.78	.771	329.93
7	.287	110.00	.172	129.67	.268	106.80	.233	118.34	.207	110.99
8	.250	53.56	.329	77.50	.237	80.01	.175	62.78	.076	74.80
9	.148	18.00	.139	11.15	.057	9.51	.123	22.73	.040	335.23
10	.094	204.77	.085	145.82	.117	256.11	.083	225.97	.128	262.25

*** STABILITY PARAMETER

```
*                  *
*  XI =    -.4267  *
*                  *
********************
```

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	98	ALPHA-MCL = 6.0	PDP RUN.PT 21.06
RUN	21	ALPHA-PAR = .5	Q-COMP = .32180
POINT	3	SIGMA = 45.	V-REF = 198.90

COMPUTED FREQUENCY = 15.49, K = .1224

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-12.921	-4.209	-5.720	-1.514	-3.980	-1.049	-2.653	-.583	-2.011	-.158	-1.495	.349	-1.078	.608
2	-.557	.452	-.185	-.071	-.189	.013	-.224	-.014	-.223	-.017	-.195	-.035	-.200	-.026
3	.181	.111	-.048	-.089	-.080	-.099	-.055	-.083	-.079	-.124	-.075	-.130	-.053	-.110
4	-.007	-.208	-.157	-.223	-.175	-.224	-.171	-.221	-.190	-.225	-.220	-.195	-.213	-.198
5	-.012	-.019	-.028	-.120	-.012	-.126	.002	-.122	.014	-.116	.035	-.112	.034	-.104
6	.023	.059	-.006	.037	-.020	.031	-.013	.014	-.025	.011	-.021	-.003	-.023	-.005
7	-.030	-.133	.019	-.135	.027	-.130	.027	-.124	.042	-.121	.028	-.110	.041	-.095
8	-.007	.022	-.009	.030	-.011	.043	-.013	.051	-.015	.049	-.026	.050	-.027	.060
9	.002	.013	-.010	.009	-.016	.004	-.007	.006	.009	-.005	.002	.008	-.009	.005
10	.019	.038	.005	.025	-.002	.023	.002	.025	.007	.023	-.001	.022	.001	.014

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.263-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.907	.643	-.823	.564	-.653	.516	5.374	2.139	1.616	1.834	1.358	1.160	.617	.925
2	-.202	-.027	-.204	-.035	-.187	-.034	-.037	-.141	-.119	.011	-.171	-.040	-.191	-.031
3	-.062	-.112	-.048	-.108	-.047	-.065	-.032	-.097	-.045	-.112	-.033	-.109	-.036	-.103
4	-.222	-.199	-.233	-.225	-.243	-.214	-.212	-.162	-.215	-.186	-.199	-.209	-.184	-.231
5	.048	-.086	.049	-.074	.044	-.061	-.044	-.146	-.019	-.135	-.013	-.112	.010	-.108
6	-.025	.002	-.007	.003	-.016	.006	-.036	-.001	-.036	-.005	-.017	.005	-.016	.005
7	.035	-.092	.033	-.098	.030	-.079	.014	-.064	.021	-.064	.025	-.069	.040	-.063
8	-.026	.058	-.029	.059	-.022	.060	-.015	.046	-.009	.049	-.010	.048	-.026	.042
9	-.005	-.000	-.002	.005	-.007	.004	.006	.000	.006	-.012	.015	-.022	-.017	-.015
10	.006	.018	.006	.025	.011	.015	-.009	-.010	-.001	.008	.001	.008	-.004	.011

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.126	.695	-.125	.740	-.198	.543	-.714	.453	-.754	.280	-.959	.512
2	-.158	-.033	-.228	-.037	-.204	-.046	-.214	-.005	-.179	-.069	-.224	-.049
3	-.053	-.090	-.057	-.115	-.031	-.089	-.034	-.074	-.045	-.070	-.041	-.080
4	-.212	-.212	-.251	-.271	-.216	-.241	-.262	-.266	-.233	-.233	-.212	-.227
5	.004	-.096	.019	-.102	.017	-.082	.026	-.082	.003	-.075	.031	-.052
6	-.007	.004	-.001	.014	-.002	.010	.002	.015	.006	.012	-.020	.003
7	.017	-.069	.024	-.081	.016	-.071	.016	-.060	.008	-.051	.008	-.079
8	-.012	.045	-.014	.055	-.015	.047	-.003	.058	-.023	.047	-.021	.056
9	.010	-.012	.022	-.019	.005	-.007	.023	-.014	.013	-.012	.003	.001
10	.003	.009	.027	.016	.002	.014	.014	.021	.016	.020	.005	.018

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 98 ALPHA-MCL = 6.0 POP RUN.PT 21.06
RUN 21 ALPHA-BAR = .5 Q-COMP = .32180
POINT 3 SIGMA = 45. V-REF = 198.90
COMPUTED FREQUENCY = 15.49, K = .1224

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	13.589	198.04	5.917	194.83	4.115	194.76	2.717	192.40	2.017	184.50	1.535	166.87	1.238	150.57
2	.717	140.96	.199	201.06	.189	176.09	.225	183.56	.224	184.31	.199	190.22	.202	187.30
3	.213	31.44	.101	241.80	.127	230.97	.100	236.44	.147	237.62	.150	239.95	.122	244.38
4	.209	268.10	.273	234.88	.285	231.97	.279	232.26	.294	229.81	.293	221.58	.291	222.94
5	.023	236.67	.123	256.77	.126	264.43	.122	270.73	.117	276.81	.118	287.44	.109	288.25
6	.063	68.53	.038	99.00	.037	122.09	.019	133.60	.027	155.47	.021	186.89	.024	191.50
7	.136	257.19	.136	277.82	.133	281.69	.127	282.20	.128	289.04	.114	284.20	.104	293.15
8	.023	107.16	.051	106.94	.045	104.68	.052	103.94	.051	107.45	.056	117.34	.066	114.33
9	.013	82.30	.014	138.17	.016	165.88	.009	142.54	.010	331.20	.008	75.53	.010	151.15
10	.042	64.00	.025	79.46	.023	95.56	.025	86.31	.024	73.44	.022	91.81	.014	82.09

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.112	144.67	.998	145.61	.997	148.82	5.784	21.71	2.444	48.63	1.787	40.51	1.112	56.31
2	.204	187.62	.207	189.63	.190	190.19	.146	255.44	.120	174.74	.175	193.10	.194	189.36
3	.128	240.84	.119	246.02	.080	234.25	.102	251.73	.121	248.18	.114	253.03	.110	250.82
4	.298	221.81	.324	223.99	.324	221.40	.267	217.31	.284	220.80	.289	226.42	.295	231.45
5	.099	299.00	.089	303.51	.075	306.18	.153	253.18	.137	262.00	.113	263.47	.109	275.44
6	.025	175.76	.008	155.98	.018	159.08	.036	181.68	.036	187.42	.018	164.69	.017	163.22
7	.098	290.88	.104	288.44	.085	290.96	.065	282.08	.067	288.51	.073	290.22	.074	302.75
8	.064	115.85	.066	116.17	.064	109.95	.049	107.88	.050	100.16	.049	102.01	.050	121.45
9	.005	181.02	.006	113.45	.008	149.37	.006	4.36	.013	296.65	.027	305.41	.023	319.86
10	.019	70.65	.026	76.42	.018	55.09	.013	226.36	.008	95.17	.008	79.48	.012	109.51

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.706	79.69	.750	99.62	.578	110.07	.846	147.62	.604	159.63	1.087	151.92
2	.191	189.81	.231	189.31	.209	192.73	.214	181.35	.192	200.98	.229	192.34
3	.105	239.67	.129	243.46	.094	251.02	.082	245.17	.083	237.48	.090	242.55
4	.299	224.97	.369	227.11	.324	228.12	.373	225.46	.329	224.97	.310	227.03
5	.096	272.21	.103	280.77	.083	281.46	.086	287.78	.075	272.20	.061	301.21
6	.008	154.73	.014	93.82	.010	101.57	.015	83.60	.013	64.38	.020	172.53
7	.071	283.80	.084	286.21	.073	282.55	.062	284.80	.051	279.04	.080	276.00
8	.046	104.68	.056	104.73	.050	108.14	.058	97.83	.052	115.87	.060	110.30
9	.015	309.90	.029	318.67	.009	304.75	.027	329.08	.017	318.38	.003	17.53
10	.009	71.20	.017	65.59	.014	83.08	.025	55.79	.026	50.64	.018	74.59

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 98 ALPHA-MCL = 6.0 PCP RUN.PT 21.06
RUN 21 ALPHA-RAP = .5 Q-COMP = .3218C
POINT 3 SIGMA = 45. V-REF = 198.90
COMPUTED FREQUENCY = 15.49, K = .1224

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	18.295	6.349	7.336	3.349	5.338	2.209	3.270	1.508	2.137	.853	1.369	.391	.880	-.066
2	.520	-.593	.066	.082	.018	-.053	.033	-.018	.035	-.016	-.032	-.002	-.004	-.020
3	-.213	-.208	.003	-.023	.047	-.011	.019	-.020	.026	.034	.018	.015	.022	.021
4	-.205	.047	-.058	.038	-.024	.015	-.013	-.010	-.022	.013	-.032	-.076	-.003	-.043
5	-.032	-.127	.009	-.015	-.001	.013	.009	.014	-.010	.020	-.016	.011	-.018	.022
6	-.060	-.060	-.030	-.04[illegible]	.002	-.027	-.003	-.009	.017	-.008	.020	.017	.021	.015
7	.044	.069	.063	.0[illegible]	-.002	.061	.013	.061	-.025	.053	-.004	.029	-.025	.024
8	-.008	.025	.000	.019	.001	.005	-.013	-.008	.004	-.004	.012	.005	.012	-.013
9	.004	-.012	.016	-.021	.031	-.026	.025	-.020	.001	-.007	.020	-.027	.014	-.012
10	-.028	-.048	-.005	-.016	.004	-.015	-.006	-.013	-.004	-.014	.038	-.007	-.000	.000

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.193	-.190	.070	-.284	-.106	-.004
2	-.012	.022	.025	-.034	-.037	-.015
3	.028	.038	.004	.038	.005	-.015
4	-.040	-.067	.000	-.008	.031	-.013
5	-.021	.004	-.046	-.001	-.013	.009
6	.026	.013	.013	.009	-.004	-.004
7	-.019	.032	-.025	.048	-.022	.000
8	.020	-.000	.006	-.012	.001	-.004
9	.027	-.014	.015	-.017	.010	-.003
10	.008	.003	.010	-.005	-.006	.003

N	CNREAL	CNIMAG
1	2.613	.963
2	.023	-.026
3	.013	.002
4	-.023	-.018
5	-.011	.006
6	.007	-.004
7	-.009	.041
8	.004	-.001
9	.016	-.016
10	-.000	-.008

N	CMREAL	CMIMAG
1	.788	.342
2	.013	-.008
3	-.002	-.006
4	-.006	.006
5	.002	-.002
6	-.003	-.004
7	.003	.006
8	-.001	.001
9	.001	-.001
10	-.001	-.002

*** STABILITY PARAMETER

* XI = -.3421 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.830	.395	1.588	-.807	-13.057	-2.593	-2.139	-.398	-4.617	-6.563
2	-.257	-.039	-.373	-.194	-.454	-.173	-.276	-.029	.007	-.061
3	-.056	-.181	-.054	-.048	-.021	-.071	-.077	-.116	.009	.150
4	-.235	-.289	-.145	-.429	-.342	-.205	-.194	-.285	-.164	-.579
5	-.067	-.185	-.044	-.109	-.001	-.201	-.004	-.145	-.210	-.228
6	-.048	.099	-.330	.069	-.045	.085	-.034	.033	.011	.059
7	.028	-.142	.016	-.163	.002	-.211	.046	-.138	.046	-.131
8	-.063	.060	-.017	.058	-.046	.027	-.012	.062	.031	.017
9	.014	-.007	.041	-.010	-.007	.017	-.009	.001	-.033	.036
10	-.012	.025	-.012	-.030	-.015	.033	-.010	.034	-.033	.112

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 98 ALPHA-MCL = 6.0 PDP RUN.PT 21.06
RUN 21 ALPHA-BAR = .5 Q-COMP = .32180
POINT 3 SIGMA = 45. V-REF = 198.90
COMPUTED FREQUENCY = 15.49, K = .1224

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	19.365	19.14	8.064	24.54	5.777	22.48	3.601	24.76	2.301	21.76	1.424	15.93	.883	355.72
2	.789	311.28	.106	51.27	.056	288.81	.037	332.06	.038	335.45	.032	183.66	.021	260.18
3	.298	224.20	.023	277.04	.048	346.96	.028	314.06	.042	52.54	.023	39.86	.030	43.22
4	.210	167.10	.069	147.16	.028	147.37	.017	217.64	.026	148.22	.082	247.20	.043	266.06
5	.131	255.97	.018	300.86	.013	92.60	.016	57.74	.022	117.23	.019	145.67	.028	128.62
6	.085	225.20	.052	234.32	.027	275.06	.009	252.70	.019	335.79	.026	39.88	.026	34.50
7	.082	57.50	.072	87.84	.061	91.47	.063	77.64	.058	115.40	.029	98.42	.035	135.84
8	.026	108.52	.019	89.21	.005	77.93	.016	212.41	.006	310.29	.012	21.51	.018	312.00
9	.013	289.18	.026	307.53	.040	320.57	.032	320.64	.007	279.69	.034	305.68	.018	319.24
10	.055	239.76	.017	252.19	.016	283.52	.015	247.77	.015	254.86	.010	318.87	.000	117.06

X =	.774		.860		.910		N	CN-MAG	PHIN	N	CM-MAG	PHIM
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI						
1	.271	315.42	.292	283.81	.106	182.37	1	2.785	20.23	1	.859	23.46
2	.025	118.83	.042	306.56	.040	202.51	2	.035	311.68	2	.016	329.25
3	.047	53.33	.039	84.64	.016	289.38	3	.013	9.23	3	.006	250.67
4	.078	239.46	.008	270.13	.034	337.16	4	.029	217.65	4	.009	136.70
5	.022	169.50	.046	161.69	.016	145.70	5	.012	150.49	5	.003	316.06
6	.029	27.05	.015	34.68	.005	223.40	6	.008	328.76	6	.005	236.05
7	.037	121.13	.054	117.44	.022	179.67	7	.042	102.82	7	.006	61.56
8	.020	359.47	.013	297.33	.005	285.31	8	.004	345.43	8	.002	134.37
9	.031	333.74	.023	312.14	.010	343.02	9	.023	316.59	9	.001	295.98
10	.009	22.28	.011	333.81	.006	156.05	10	.008	268.71	10	.003	250.50

*** STABILITY PARAMETER

*   *
* XI =   -.3421 *
*   *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.920	154.57	1.719	332.00	13.312	191.23	2.176	190.55	8.024	234.87
2	.260	188.67	.420	207.50	.486	200.89	.278	185.99	.061	276.40
3	.189	252.71	.073	221.85	.074	253.81	.140	236.63	.150	86.66
4	.373	230.98	.453	251.39	.399	210.89	.345	235.68	.602	254.19
5	.197	250.15	.118	248.01	.201	269.74	.145	268.43	.310	227.36
6	.049	169.88	.067	116.31	.096	117.53	.047	135.43	.059	78.89
7	.145	281.18	.169	275.56	.211	270.47	.145	288.43	.138	289.44
8	.060	93.19	.061	106.42	.053	150.13	.063	100.76	.035	28.60
9	.016	333.24	.042	345.89	.018	111.11	.009	173.33	.049	132.35
10	.030	113.71	.012	181.63	.036	114.48	.035	105.65	.117	106.29

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 101 ALPHA-MCL = 6.0 PDP RUN.PT 21.09
RUN 21 ALPHA-PAR = .5 G-COMP = .32150
POINT 6 SIGMA = 45. V-REF = 198.81
COMPUTED FREQUENCY = 19.07, K = .1507

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-12.451	-3.660	-5.090	-1.334	-3.353	-.881	-2.037	-.522	-1.370	-.140	-.839	.318	-.382	.655
2	-.231	.526	.368	-.369	.297	-.300	.332	-.333	.371	-.359	.407	-.402	.397	-.402
3	.255	.216	.151	.072	.126	.074	.155	.079	.142	.065	.140	.082	.120	.083
4	-.038	.045	-.022	.167	-.022	.166	-.016	.161	-.015	.191	-.003	.206	-.013	.181
5	-.044	.049	-.004	.010	.006	-.002	.011	-.002	.017	-.005	.025	-.018	.032	-.013
6	.010	-.045	.045	-.011	.045	-.001	.057	-.002	.064	.005	.067	.013	.062	.005
7	-.005	-.020	.058	.005	.068	.025	.062	.036	.044	.059	.069	.044	.073	.037
8	-.014	-.020	.030	.002	.029	.015	.030	.016	.036	.025	.037	.029	.038	.025
9	-.025	-.009	.008	-.006	.007	-.007	.010	-.007	.009	-.006	.013	-.014	.011	-.011
10	-.015	.019	.001	.009	.010	.010	.006	.007	.014	.010	.013	.006	.024	.002

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.263	.685	-.172	.646	-.221	.581	5.694	2.009	2.312	1.947	1.907	1.168	1.183	1.028
2	.402	-.383	.424	-.394	.391	-.398	.412	-.633	.418	-.439	.367	-.432	.379	-.398
3	.117	.082	.132	.090	.126	.097	.179	.061	.190	.075	.171	.078	.153	.095
4	-.025	.165	-.023	.185	-.017	.169	.027	.166	.014	.168	.005	.161	-.030	.157
5	.039	-.007	.045	-.004	.038	-.005	.044	.002	.024	.005	.023	.005	.028	.004
6	.061	.002	.063	.009	.064	.009	.082	.032	.067	.012	.061	.013	.070	.021
7	.054	.045	.062	.048	.064	.043	.073	.056	.069	.056	.047	.070	.035	.084
8	.032	.029	.033	.036	.030	.028	.037	.027	.034	.019	.032	.025	.029	.031
9	.008	-.011	.013	-.006	.005	-.009	.036	-.001	.021	-.009	.020	-.010	.025	-.015
10	.028	.002	.035	.008	.032	.002	.021	.005	.018	.002	.022	.001	.030	.004

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.649	.816	.516	.925	.357	.722	-.133	.682	-.203	.684	-.274	.687
2	.359	-.376	.434	-.422	.379	-.367	.416	-.371	.397	-.378	.377	-.386
3	.150	.079	.183	.104	.157	.087	.176	.103	.162	.084	.149	.065
4	-.014	.158	-.022	.192	-.018	.170	-.027	.201	-.025	.184	-.022	.168
5	.020	.005	.030	.007	.026	.002	.043	.001	.033	.005	.024	.010
6	.051	.007	.067	.014	.050	.014	.070	.002	.063	.007	.057	.012
7	.045	.054	.038	.077	.055	.056	.044	.056	.044	.053	.045	.049
8	.026	.026	.026	.031	.028	.025	.026	.029	.025	.030	.024	.030
9	.013	-.007	.014	-.007	.011	-.008	.005	-.004	.007	-.004	.008	-.005
10	.027	.002	.036	.006	.030	.008	.035	.006	.034	.006	.033	.007

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 101 ALPHA-MCL = 6.0 PDP RUN.PT 21.09
RUN 21 ALPHA-BAR = .5 Q-COMP = .32150
POINT 6 SIGMA = 45. V-REF = 198.81
COMPUTED FREQUENCY = 19.07, K = .1507

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	12.978	196.38	5.262	194.68	3.467	194.73	2.103	194.36	1.377	185.85	.869	158.58	[illegible]	120.22
2	.574	113.69	.521	314.96	.422	314.71	.471	314.90	.516	315.98	.572	315.33	.565	314.63
3	.334	40.28	.167	25.49	.146	30.25	.174	26.94	.166	30.80	.162	30.42	.146	34.69
4	.059	129.79	.169	97.51	.167	97.48	.162	95.56	.191	94.50	.206	90.83	.182	94.11
5	.066	131.78	.011	114.49	.007	340.88	.012	347.93	.018	344.76	.031	323.91	.035	337.50
6	.046	282.68	.046	346.31	.045	358.78	.057	357.72	.064	4.84	.068	10.70	.062	4.89
7	.021	255.10	.058	4.74	.073	20.05	.072	3.02	.074	52.91	.082	32.42	.082	26.87
8	.024	233.70	.030	3.30	.033	26.60	.034	27.69	.044	35.13	.047	38.40	.045	34.10
9	.026	200.96	.010	323.34	.010	313.82	.012	323.13	.011	328.29	.019	311.05	.016	314.31
10	.024	128.04	.009	60.93	.014	46.09	.009	52.40	.017	35.22	.014	24.16	.024	4.23

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.734	111.02	.669	104.93	.622	110.84	6.038	19.43	3.022	40.10	2.236	31.49	1.567	40.99
2	.556	316.38	.579	317.11	.558	314.47	.755	303.05	.606	313.63	.567	310.34	.550	313.55
3	.143	34.96	.160	34.32	.159	37.48	.189	18.96	.204	21.69	.188	24.60	.180	31.75
4	.186	97.72	.186	96.99	.170	95.79	.168	80.61	.168	85.38	.161	88.26	.160	100.97
5	.040	349.49	.045	355.05	.038	352.24	.044	2.96	.025	12.46	.024	11.54	.028	9.17
6	.061	1.59	.063	8.08	.064	6.74	.088	21.37	.068	9.99	.063	11.71	.073	16.70
7	.070	39.49	.078	37.48	.078	33.89	.092	37.59	.088	36.89	.085	55.99	.091	47.47
8	.043	41.59	.048	47.24	.041	43.35	.046	35.46	.039	28.96	.041	37.95	.042	46.59
9	.013	306.03	.014	336.52	.011	297.15	.036	358.51	.023	337.69	.022	334.45	.029	329.50
10	.028	3.79	.036	13.59	.032	3.08	.021	14.56	.018	6.99	.022	3.05	.030	7.03

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.042	51.51	1.059	60.83	.806	63.65	.695	101.00	.714	106.55	.739	111.77
2	.520	313.65	.605	315.83	.528	315.93	.557	318.33	.548	316.37	.540	314.35
3	.169	27.66	.210	29.71	.179	28.88	.203	30.29	.183	27.36	.163	23.70
4	.158	94.92	.193	96.62	.171	96.19	.202	97.78	.186	97.59	.169	97.37
5	.021	12.80	.031	12.51	.026	3.57	.043	.71	.034	8.60	.026	21.89
6	.052	8.26	.065	12.55	.052	15.70	.070	1.75	.064	6.36	.058	11.92
7	.070	50.46	.087	63.58	.079	45.70	.071	51.93	.069	49.95	.067	47.86
8	.037	45.58	.042	47.75	.038	42.71	.039	43.38	.039	49.59	.039	50.81
9	.015	333.09	.016	332.09	.013	323.27	.006	325.40	.008	326.92	.009	327.94
10	.027	4.91	.036	8.74	.031	16.03	.036	9.26	.035	10.62	.033	12.07

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	101	ALPHA-MCL =	6.0	PDP RUN.PT	21.09
RUN	21	ALPHA-BAR =	.5	Q-COMP =	.32150
POINT	6	SIGMA =	45.	V-REF =	198.81

COMPUTED FREQUENCY = 19.07, K = .1507

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	18.146	5.669	7.402	3.280	5.260	2.049	3.220	1.549	2.019	.956	1.325	.607	.739	.067
2	.643	-1.159	.050	-.070	.071	-.133	.046	-.065	-.012	-.018	.028	-.020	-.018	.035
3	-.076	-.155	.039	.004	.044	.005	-.003	.016	.008	-.006	.043	.022	.037	.004
4	.065	.121	.036	.001	.027	-.004	-.015	-.005	.001	-.033	-.019	-.014	-.005	-.011
5	.088	-.047	.029	-.004	.017	.007	.016	.007	.003	.009	.005	.025	-.006	.015
6	.072	.077	.022	.023	.017	.014	.013	.023	-.013	.002	-.004	.001	-.012	.009
7	.078	.076	.011	.051	-.021	.045	-.027	.049	.000	-.004	-.031	.034	-.018	.020
8	.052	.046	.004	.017	.003	.010	-.001	.015	-.010	.001	-.008	.002	-.010	.000
9	.061	.009	.013	-.003	.013	-.002	.015	-.007	.004	-.001	.001	.007	-.000	.003
10	.036	-.014	.017	-.007	.012	-.009	.024	-.003	.013	-.007	.023	-.000	.005	.007

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.131	-.003	-.031	.038	-.053	.106
2	.014	.013	-.027	.016	-.013	.012
3	.059	.021	.030	-.006	.023	-.031
4	-.002	.016	-.002	-.001	-.005	-.001
5	.004	.008	-.012	.009	-.014	.015
6	.009	.000	.001	-.002	-.007	.004
7	-.011	.011	-.018	.005	-.020	.006
8	-.006	.001	-.008	-.006	-.005	.002
9	-.002	.007	-.006	.001	.003	.004
10	.007	.004	-.001	-.002	.000	.005

N	CNREAL	CNIMAG
1	2.553	1.032
2	.035	-.059
3	.026	-.001
4	.001	-.004
5	.007	.009
6	.004	.010
7	-.012	.025
8	-.003	.006
9	.006	.001
10	.013	-.002

N	CMREAL	CMIMAG
1	.787	.308
2	.016	-.028
3	-.002	-.001
4	.003	.001
5	.004	-.002
6	.003	.003
7	.002	.004
8	.002	.002
9	.002	-.001
10	.002	-.001

*** STABILITY PARAMETER

*   *
* XI =   -.3083 *
*   *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.016	.430	2.591	-.492	-12.486	-2.368	-1.425	-.303	-4.116	-6.759
2	.415	-.547	.247	-.706	.270	-.272	.442	-.474	.007	-.012
3	.255	.076	.391	.032	.306	.008	.179	.114	.590	-.173
4	-.009	.199	-.109	.148	-.127	.345	-.015	.202	-.014	-.098
5	.036	.009	.062	.062	-.076	-.014	.023	-.015	-.138	.051
6	.059	-.013	-.022	-.031	.023	-.042	.074	-.010	.221	-.088
7	.069	.076	.129	.055	.077	-.000	.088	.058	.106	.001
8	.035	.026	-.004	.080	.002	.035	.033	.024	.029	-.047
9	.042	.003	.032	-.045	-.013	-.014	.007	-.015	.002	.018
10	.014	.013	.006	.028	-.012	.016	.017	.011	-.016	.036

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 101 ALPHA-MCL = 6.0 PDP RUN.PT 21.09
RUN 21 ALPHA-BAR = .5 Q-COMP = .32150
POINT 6 SIGMA = 45. V-REF = 198.81
COMPUTED FRECUENCY = 19.07, K = .1507

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	19.011	17.35	8.096	23.90	5.645	21.29	3.574	25.69	2.234	25.35	1.458	24.61	.742	5.17
2	1.325	299.01	.086	305.47	.150	298.00	.080	305.58	.021	235.22	.034	324.37	.039	116.85
3	.173	243.74	.039	5.18	.045	5.81	.016	99.12	.010	322.02	.048	27.34	.037	5.66
4	.137	61.57	.036	.95	.027	350.67	.015	197.62	.033	272.47	.024	216.13	.012	243.08
5	.100	332.05	.029	351.71	.018	22.36	.018	23.05	.010	71.90	.025	79.27	.016	110.61
6	.105	46.95	.031	46.50	.022	39.29	.026	60.85	.013	170.91	.004	159.53	.015	143.37
7	.109	44.32	.052	77.86	.050	114.99	.056	118.96	.004	275.50	.045	132.48	.026	132.28
8	.070	41.76	.018	75.67	.011	75.77	.015	93.29	.010	174.52	.008	163.60	.010	179.52
9	.061	8.00	.013	348.57	.013	349.47	.017	334.16	.004	346.98	.007	80.78	.003	93.46
10	.038	339.10	.018	338.39	.015	322.95	.025	351.89	.015	331.70	.023	359.37	.009	51.09

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.131	358.69	.049	129.14	.118	116.66
2	.019	42.48	.031	150.13	.018	138.02
3	.062	19.47	.031	348.17	.039	305.97
4	.016	98.53	.002	194.95	.005	196.29
5	.009	64.76	.015	142.82	.020	133.91
6	.009	2.87	.002	266.75	.009	149.33
7	.015	133.96	.019	164.83	.021	162.67
8	.006	174.61	.010	217.85	.006	158.97
9	.007	109.64	.007	167.95	.005	54.75
10	.008	27.53	.002	252.77	.005	84.60

N	CN-MAG	PHIN
1	2.754	22.01
2	.069	300.31
3	.026	358.75
4	.004	292.32
5	.012	50.99
6	.011	70.67
7	.028	116.69
8	.007	118.32
9	.006	11.91
10	.013	352.77

N	CM-MAG	PHIM
1	.845	21.40
2	.032	299.19
3	.003	204.88
4	.003	17.18
5	.004	338.63
6	.004	44.00
7	.005	67.98
8	.003	52.32
9	.002	342.09
10	.002	325.52

*** STABILITY PARAMETER

```
*                *
* XI =   -.3083  *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.430	87.92	2.637	349.25	12.709	190.74	1.457	192.00	7.913	238.66
2	.687	307.18	.748	289.27	.384	314.74	.648	313.00	.014	300.18
3	.266	16.51	.392	4.67	.306	1.41	.212	32.57	.615	343.63
4	.199	92.59	.184	126.32	.368	110.28	.203	94.17	.099	261.71
5	.011	54.05	.087	45.13	.077	190.54	.028	326.92	.147	159.57
6	.060	347.60	.039	234.70	.048	298.76	.075	352.22	.238	338.33
7	.116	40.73	.140	22.94	.077	359.80	.106	33.47	.106	.62
8	.045	39.14	.080	93.17	.035	86.08	.041	35.52	.055	301.06
9	.042	4.70	.055	304.94	.020	226.83	.016	293.94	.018	82.81
10	.019	42.70	.028	77.21	.020	125.85	.020	32.49	.039	113.79

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 114 ALPHA-MCL = 6.0 PNP RUN.PT 24.02
RUN 24 ALPHA-RAP = .5 C-COMP = .32348
POINT 1 SIGMA = 90. V-REF = 190.46
COMPUTED FREQUENCY = 9.06, K = .0714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.744	-5.545	-6.164	-1.565	-4.372	-.982	-2.633	-.435	-2.022	.773	-1.739	.626	-1.436	.832
2	-.931	1.740	.859	.656	.699	.750	.845	.754	.961	.814	1.057	.846	1.066	.796
3	.078	.429	-.636	.496	-.694	.468	-.656	.493	-.722	.532	-.770	.543	-.754	.553
4	.089	-.192	.527	-.319	.486	-.303	.514	-.298	.535	-.311	.580	-.318	.543	-.321
5	-.071	.249	-.133	-.110	-.117	-.097	-.121	-.094	-.133	-.111	-.115	-.113	-.131	-.122
6	.244	-.087	-.036	-.377	-.065	-.284	-.050	-.298	-.058	-.307	-.059	-.324	-.075	-.291
7	.075	-.059	-.109	-.083	-.103	-.383	-.110	-.090	-.130	-.094	-.119	-.390	-.134	-.092
8	.145	.187	.085	.045	.058	.038	.057	.078	.077	.011	.072	-.004	.081	-.014
9	.123	.019	.059	.044	.061	.051	.039	.035	.040	.041	.027	.057	.021	.049
10	.090	-.032	.092	.014	.071	.037	.075	.031	.060	.039	.057	.047	.049	.040

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.132	.743	-.863	.554	-.766	.437	8.526	3.042	3.842	2.104	3.224	1.464	2.197	1.082
2	1.066	.914	1.063	.933	1.080	.801	1.267	.445	1.091	.715	1.017	.737	.982	.757
3	-.744	.549	-.772	.552	-.747	.590	-.632	.590	-.711	.613	-.688	.589	-.699	.569
4	.533	-.316	.542	-.319	.538	-.341	.460	-.328	.512	-.342	.509	-.317	.512	-.295
5	-.170	-.110	-.125	-.122	-.138	-.097	-.198	-.049	-.160	-.070	-.154	-.063	-.137	-.076
6	-.042	-.298	-.086	-.310	-.105	-.297	-.118	-.379	-.133	-.303	-.098	-.296	-.066	-.292
7	-.126	-.097	-.136	-.113	-.136	-.096	-.146	-.071	-.149	-.072	-.150	-.086	-.131	-.103
8	.102	-.022	.096	-.036	.120	-.032	.027	-.072	.055	-.043	.066	-.031	.077	-.023
9	.017	.043	.016	.042	.018	.031	.056	.077	.055	.016	.049	.020	.035	.035
10	.043	.042	.036	.035	.041	.026	.049	.046	.048	.025	.044	.023	.035	.019

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.271	.687	1.077	.595	.761	.381	-.070	.131	-.181	.763	-.369	-.078
2	.893	.718	1.092	.910	.977	.793	1.014	.997	1.021	.812	.989	.834
3	-.649	.529	-.815	.636	-.716	.558	-.784	.605	-.742	.540	-.768	.576
4	.474	-.295	.594	-.342	.518	-.305	.550	-.342	.540	-.320	.500	-.321
5	-.147	-.067	-.152	-.098	-.146	-.073	-.134	-.086	-.120	-.070	-.116	-.099
6	-.090	-.274	-.134	-.376	-.096	-.289	-.122	-.343	-.117	-.299	-.087	-.370
7	-.171	-.035	-.159	-.101	-.134	-.117	-.144	-.114	-.149	-.128	-.128	-.095
8	.027	-.037	.127	-.035	.109	-.021	.130	-.051	.145	-.056	.129	-.032
9	.013	.036	.036	.074	.024	.029	.037	.030	.015	.022	.011	.028
10	.040	.017	.036	.019	.028	.015	.052	.010	.043	.016	.031	.028

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 114 ALPHA-MCL = 6.0 PDP RUN.PT 24.02
RUN 24 ALPHA-RAR = .5 C-COMP = .32348
POINT 1 SIGMA = 90. V-REF = 199.46
COMPUTED FRECUENCY = 9.06, K = .0714
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.590	197.35	6.359	194.35	4.168	193.56	2.668	169.37	2.023	177.95	1.848	160.19	1.660	149.92
2	1.959	117.38	1.081	37.35	1.170	39.83	1.133	41.73	1.260	40.27	1.354	38.68	1.330	36.75
3	.440	77.10	.801	142.63	.837	146.04	.820	143.11	.897	143.62	.942	144.82	.935	143.76
4	.211	294.90	.616	328.85	.573	328.05	.594	329.86	.619	329.86	.662	331.28	.631	329.46
5	.251	97.20	.151	226.92	.152	219.53	.153	217.75	.174	219.83	.161	224.53	.179	222.94
6	.259	340.41	.309	263.25	.291	257.07	.303	260.41	.313	259.30	.329	259.64	.301	255.60
7	.064	293.00	.137	217.19	.132	218.86	.142	219.39	.161	215.95	.149	217.20	.162	214.40
8	.277	51.93	.096	27.85	.070	33.15	.057	7.57	.080	8.22	.073	356.89	.082	350.35
9	.124	8.65	.073	37.71	.079	39.91	.052	42.40	.057	45.62	.063	64.85	.054	67.01
10	.076	340.23	.093	8.45	.079	27.37	.081	22.40	.072	33.10	.074	39.35	.063	39.43

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.354	146.74	1.048	147.42	.882	150.34	9.052	13.64	4.380	28.70	3.541	24.41	2.449	26.22
2	1.341	37.37	1.363	38.74	1.345	36.57	1.343	19.76	1.295	33.49	1.232	34.99	1.240	37.64
3	.925	143.61	.949	144.42	.952	141.73	.932	139.16	.937	139.38	.906	139.40	.901	140.88
4	.617	329.15	.629	329.47	.637	327.67	.565	324.53	.615	326.25	.599	328.07	.591	330.03
5	.163	222.49	.175	224.33	.169	215.30	.205	193.96	.175	203.50	.167	202.24	.156	209.10
6	.379	254.61	.321	254.45	.315	250.48	.331	249.13	.322	250.40	.312	251.59	.300	257.26
7	.159	217.57	.176	219.68	.166	215.05	.163	205.87	.165	205.96	.173	209.98	.167	217.95
8	.104	347.67	.102	339.47	.124	345.22	.075	286.94	.070	322.21	.073	334.69	.080	343.66
9	.047	68.18	.044	69.45	.035	59.68	.057	7.08	.057	16.61	.052	22.02	.049	44.45
10	.060	44.26	.050	43.95	.049	32.15	.067	43.44	.054	27.85	.049	27.77	.040	28.95

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.445	28.41	1.226	28.51	.851	26.60	.148	119.11	.191	160.72	.377	192.01
2	1.146	38.81	1.422	39.79	1.258	39.06	1.422	44.54	1.304	38.49	1.294	40.14
3	.837	140.84	1.034	142.01	.907	142.08	.990	142.34	.923	143.50	.962	143.11
4	.567	328.61	.686	330.06	.601	329.51	.647	329.14	.628	329.33	.594	327.33
5	.161	274.39	.175	210.09	.163	206.59	.159	212.53	.139	210.12	.153	220.52
6	.289	251.80	.354	252.96	.304	251.69	.364	257.40	.321	248.63	.311	254.47
7	.156	212.97	.200	217.18	.178	221.21	.183	219.36	.197	220.73	.159	216.42
8	.095	337.04	.128	344.33	.111	349.12	.139	339.60	.156	338.88	.133	346.10
9	.049	48.11	.050	43.24	.038	50.37	.048	38.62	.027	54.59	.030	67.48
10	.042	20.37	.041	27.77	.032	28.78	.053	11.30	.046	20.04	.042	41.75

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	114	ALPHA-MCL = 6.0		PDP RUN.PT	24.02
RUN	24	ALPHA-PAR = .5		C-COMP =	.32348
POINT	1	SIGMA = 90.		V-REF =	199.46
		COMPUTED FREQUENCY = 9.06,		K =	.0714

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	26.270	8.587	10.006	3.669	7.296	2.445	4.830	1.527	3.293	.615	2.916	-.041	2.198	-.451
2	2.163	-1.295	.222	.060	.111	-.043	.137	.043	-.063	-.096	.036	.064	-.090	-.003
3	-.791	.163	-.075	.124	.006	.122	-.043	.076	.073	-.003	-.045	.094	.038	.005
4	.371	-.136	-.016	-.023	.022	-.014	-.002	.003	-.052	.016	.014	-.024	-.025	.015
5	-.157	-.298	-.057	.040	-.037	.034	-.015	.018	-.014	.045	-.037	.025	-.015	.049
6	-.362	-.222	-.072	.004	-.033	-.012	-.016	.006	-.032	.033	-.044	-.014	-.021	.003
7	-.171	-.012	-.040	.010	-.047	-.004	-.022	-.013	-.031	.009	-.040	-.031	-.000	-.026
8	-.124	-.259	-.029	-.087	.007	-.069	.020	-.030	.008	-.049	.051	-.031	.029	-.007
9	-.057	-.312	-.003	-.028	-.012	-.031	-.033	-.021	-.007	-.005	.039	-.023	.003	-.020
10	-.042	.079	-.044	.012	-.027	-.014	-.040	-.012	-.021	-.025	-.021	-.028	-.021	-.025

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.063	-.612	.702	-.571	.397	-.515
2	-.052	.183	-.042	-.041	-.091	.032
3	-.079	.056	.029	-.023	-.020	-.013
4	[illegible]	-.025	-.001	-.001	-.038	.020
5	-.014	.024	.005	.052	.021	-.002
6	-.040	-.045	-.031	.011	.022	-.003
7	-.017	-.017	-.013	-.016	.008	.001
8	.025	-.029	[illegible]	-.020	.009	-.003
9	[illegible]	-.014	[illegible]	-.019	-.006	-.007
10	.008	-.032	.007	-.019	-.010	.002

N	CNREAL	CNIMAG
1	4.118	.840
2	.079	-.025
3	-.039	.052
4	.003	-.007
5	-.023	.020
6	-.038	-.039
7	-.023	-.010
8	.015	-.040
9	-.002	-.014
10	-.020	-.019

N	CMREAL	CMIMAG
1	1.034	.436
2	.054	-.026
3	-.013	.011
4	.006	-.003
5	-.006	-.003
6	-.008	-.002
7	-.006	.001
8	-.005	-.009
9	-.002	-.001
10	-.004	.002

*** STABILITY PARAMETER

* XI = -.4355 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	[illegible]	.934	2.966	-.301	-14.518	-3.198	-1.696	-.202	.808	-10.165
2	1.321	.973	1.141	1.008	.875	.403	1.073	.955	.489	.960
3	-.985	[illegible]	-.712	.938	-1.125	.616	-.866	.671	-1.291	.673
4	.725	-.452	.910	-.513	.412	-.472	.698	-.360	1.012	.189
5	-.239	-.140	-.133	-.200	-.131	-.015	-.135	-.073	-.204	-.328
6	[illegible]	-.451	-.107	-.624	-.149	-.499	-.045	-.360	-.115	-.473
7	-.193	[illegible]	-.173	.045	-.106	-.156	-.145	-.109	.031	-.122
8	.137	[illegible]	.192	-.026	.156	.098	.065	-.002	-.035	-.065
9	[illegible]	.046	.113	-.030	-.001	.090	.053	.042	-.002	.012
10	.065	-.072	-.039	-.088	.157	.058	.061	.039	.059	-.076

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 114 ALPHA-MCL = 6.0 PDP RUN.PT 24.02
RUN 24 ALPHA-BAR = .5 C-COMP = .32348
POINT 1 SIGMA = 90. V-REF = 199.46
COMPUTED FRECUENCY = 9.06, K = .0714

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	27.637	18.10	10.657	20.14	7.695	18.53	5.063	17.43	3.353	10.58	2.816	359.16	2.244	348.41
2	2.525	329.15	.230	15.06	.119	338.77	.137	1.45	.113	234.58	.073	60.85	.090	182.24
3	.797	168.39	.145	121.39	.122	87.02	.087	119.50	.073	357.42	.104	115.72	.039	7.38
4	.396	339.83	.028	236.22	.026	328.47	.004	120.15	.054	163.17	.028	300.03	.029	148.46
5	.342	240.73	.070	144.59	.050	138.02	.024	137.42	.047	107.08	.045	146.25	.051	107.01
6	.425	211.53	.072	176.70	.035	199.57	.017	158.31	.046	134.14	.047	197.49	.021	172.24
7	.172	184.01	.041	165.72	.047	184.48	.025	209.88	.009	96.48	.051	217.12	.026	269.84
8	.247	244.34	.092	251.36	.070	276.05	.036	303.93	.049	279.36	.059	328.89	.029	345.70
9	.068	189.97	.028	263.64	.033	248.68	.003	193.21	.009	211.41	.025	291.25	.020	279.79
10	.089	117.87	.046	165.39	.030	206.72	.042	196.20	.032	230.10	.035	233.01	.033	229.85

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.236	330.06	.862	324.49	.651	307.66
2	.151	135.97	.359	224.21	.097	160.46
3	.069	125.02	.029	354.69	.024	213.57
4	.032	308.30	.002	215.78	.043	152.48
5	.028	120.08	.052	84.87	.021	354.27
6	.060	228.19	.033	161.15	.022	352.04
7	.024	223.59	.021	229.65	.008	7.11
8	.040	314.20	.054	337.76	.009	357.98
9	.024	325.74	.019	270.87	.007	204.89
10	.033	284.80	.020	289.95	.010	169.12

N	CN-MAG	PHIN
1	4.203	11.52
2	.083	342.32
3	.060	119.40
4	.007	291.51
5	.030	139.05
6	.039	192.74
7	.025	203.84
8	.043	290.65
9	.015	262.94
10	.024	214.73

N	CM-MAG	PHIM
1	1.122	22.83
2	.060	333.89
3	.017	139.48
4	.007	333.90
5	.007	208.74
6	.009	192.06
7	.026	168.93
8	.010	243.58
9	.002	202.43
10	.004	151.55

*** STABILITY PARAMETER

```
*                  *
*  XI =    -.4355  *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.431	43.75	2.982	354.20	14.864	192.39	1.708	185.81	10.197	274.54
2	1.640	36.36	1.522	41.46	.964	24.71	1.436	41.67	1.077	63.07
3	1.193	137.91	1.100	130.33	1.287	151.30	1.095	142.22	1.456	152.49
4	.854	328.09	1.047	330.34	.576	315.70	.741	330.98	1.029	10.57
5	.252	213.75	.241	236.36	.132	186.66	.153	203.39	.386	238.11
6	.457	260.68	.633	260.27	.511	253.79	.363	262.82	.439	254.79
7	.213	205.03	.179	165.33	.197	237.51	.181	216.97	.125	284.09
8	.137	356.43	.184	351.79	.184	32.18	.065	353.26	.074	241.26
9	.107	25.79	.117	345.13	.080	90.45	.068	38.74	.012	99.79
10	.065	358.46	.096	246.17	.168	20.34	.072	32.51	.096	307.58

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 116 ALPHA-MCL = 6.0 PDP RUN.PT 24.04
RUN 24 ALPHA-PAR = .5 C-COMP = .32348
POINT 3 SIGMA = 90. V-REF = 199.46
COMPUTED FREQUENCY = 15.51, K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.550	-4.323	-6.232	.073	-4.154	.561	-2.757	1.046	-2.211	1.661	-1.967	2.252	-1.632	2.531
2	-.658	1.615	.470	.847	.423	.964	.393	.935	.412	1.005	.442	1.067	.464	1.025
3	.519	.235	.214	-.146	.174	-.142	.193	-.109	.206	-.120	.190	-.139	.186	-.131
4	.014	-.094	.104	.036	.053	.054	.094	.048	.097	.052	.101	.053	.101	.046
5	.013	.297	-.011	.060	.002	.055	-.023	.054	-.027	.044	-.045	.028	-.019	.018
6	.209	.027	.021	.065	-.007	.067	-.010	.082	-.007	.076	-.019	.075	-.023	.061
7	-.018	-.037	.002	-.076	-.009	.002	.001	-.079	-.007	-.010	.001	-.013	-.005	-.002
8	.034	.035	-.010	.042	-.031	.040	-.022	.040	-.023	.046	-.037	.042	-.031	.045
9	.014	.008	.004	-.009	.009	-.006	.006	-.003	.005	-.004	-.006	-.001	-.009	-.009
10	.003	.019	.005	.020	-.003	.025	.004	.024	.007	.026	.009	.028	.009	.022

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	[illegible]	2.444	-1.190	2.301	-1.047	2.208	8.213	4.652	3.744	3.913	2.967	3.085	1.891	2.812
2	.445	1.007	.439	1.019	.466	.995	.647	.759	.477	.989	.420	.970	.387	.994
3	.105	-.118	.194	-.121	.171	-.129	.193	-.127	.173	-.125	.187	-.113	.190	-.104
4	.103	.047	.106	.054	.109	.053	.078	.109	.109	.051	.100	.057	.087	.069
5	-.016	.021	-.015	.027	.000	.034	.004	.007	-.004	.023	-.002	.030	-.001	.039
6	-.027	.057	-.020	.057	-.019	.064	-.022	.036	-.019	.064	-.019	.063	-.022	.055
7	-.002	-.007	-.010	-.011	-.000	-.009	-.009	.006	.002	-.004	.008	-.003	-.002	-.004
8	-.001	.045	-.031	.042	-.027	.035	-.014	.022	-.031	.033	-.037	.028	-.039	.022
9	-.007	-.002	-.012	-.008	-.013	-.006	-.007	-.041	.005	-.008	.006	-.007	.009	-.004
10	.008	.021	.014	.023	.014	.017	.016	.022	.004	.024	.005	.024	-.002	.027

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.029	2.290	.734	2.621	.455	2.133	-.436	2.165	-.648	1.860	-.709	1.927
2	.371	.917	.438	1.127	.416	.984	.425	1.142	.434	.896	.384	.976
3	.165	-.106	.211	-.126	.177	-.104	.187	-.172	.194	-.138	.163	-.140
4	.082	.060	.113	.074	.101	.055	.111	.082	.117	.053	.101	.054
5	.003	.030	-.002	.047	.004	.037	.010	.051	.003	.057	-.012	.028
6	-.017	.055	-.012	.064	-.012	.061	-.018	.061	-.014	.064	-.019	.049
7	-.003	-.002	[illegible]	-.011	-.002	-.013	.002	-.006	-.031	-.008	-.014	-.009
8	-.023	.024	-.029	[illegible]	-.031	.025	[illegible]	[illegible]	-.031	.020	[illegible]	.031
9	[illegible]	-.005	.002	[illegible]	-.002	-.010	[illegible]	[illegible]	-.004	-.011	-.003	-.010
10	[illegible]	.021	[illegible]	.029	-.000	.018	.016	.021	.005	.016	.006	.023

ORIGINAL PAGE IS
OF POOR QUALITY

UCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 116 ALPHA-MCL = 6.0 PDP RUN.PT 24.04
RUN 24 ALPHA-BAR = .5 Q-COMP = .32348
POINT 3 SIGMA = 90. V-REF = 199.46
COMPUTED FRECUENCY = 15.51, K = .1222

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.143-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.075	193.85	6.232	179.33	4.192	172.30	2.948	159.22	2.766	143.09	2.990	131.14	3.012	122.81
2	1.744	112.16	.960	60.98	1.053	66.33	1.061	68.26	1.085	67.73	1.155	67.51	1.125	65.65
3	.570	24.33	.259	325.66	.224	320.76	.222	330.59	.233	329.80	.236	323.74	.228	324.85
4	.095	278.67	.110	19.13	.075	45.21	.106	26.87	.110	28.45	.114	27.54	.111	24.69
5	.297	87.59	.061	100.71	.055	87.90	.059	113.00	.051	121.31	.053	147.81	.026	136.36
6	.210	7.33	.068	71.89	.068	95.60	.083	96.87	.076	95.55	.077	104.25	.065	110.59
7	.042	244.54	.006	286.78	.009	167.04	.009	278.97	.012	236.24	.013	272.47	.006	203.71
8	.049	45.36	.044	103.16	.050	128.11	.046	119.09	.051	116.54	.056	131.31	.055	124.51
9	.016	29.40	.010	295.10	.011	328.77	.007	334.77	.007	323.60	.006	186.30	.013	224.31
10	.019	80.77	.020	75.46	.025	95.81	.024	79.32	.027	70.36	.029	72.86	.024	68.42

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.817	119.80	2.597	117.35	2.444	[illegible]	9.439	29.52	5.416	46.26	4.280	46.11	3.389	56.09
2	1.171	66.16	1.109	66.68	1.098	34.91	.997	49.57	1.093	64.24	1.057	66.55	1.067	68.76
3	.219	327.40	.229	328.15	.214	323.29	.232	326.63	.213	324.24	.219	328.88	.217	331.45
4	.114	24.71	.124	31.02	.121	25.80	.134	54.29	.119	25.27	.115	29.69	.112	38.49
5	.026	128.34	.032	120.49	.034	89.89	.008	55.86	.023	100.00	.030	94.28	.039	91.52
6	.063	114.95	.061	109.62	.067	106.77	.042	121.02	.066	106.48	.066	106.49	.059	111.43
7	.007	257.12	.014	227.55	.009	268.12	.011	147.91	.005	292.23	.008	340.63	.004	245.71
8	.055	124.73	.052	126.30	.044	128.28	.026	122.86	.045	133.34	.044	139.88	.045	150.45
9	.007	196.35	.014	212.80	.014	203.49	.041	267.47	.009	302.30	.009	311.29	.009	338.08
10	.023	70.32	.027	58.56	.022	50.76	.027	53.96	.024	80.39	.025	79.49	.027	93.19

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.511	65.80	2.721	74.36	2.181	77.95	2.208	101.38	1.970	109.22	2.054	110.20
2	.990	67.96	1.209	68.76	1.069	67.08	1.219	69.60	.995	64.16	1.349	68.55
3	.196	327.42	.245	329.12	.205	329.58	.229	324.71	.233	324.52	.215	319.29
4	.102	36.10	.135	33.19	.116	28.56	.138	36.30	.123	24.21	.114	28.00
5	.030	83.93	.047	92.24	.037	84.33	.052	78.43	.057	86.57	.031	113.58
6	.058	106.90	.065	100.50	.062	101.14	.061	97.47	.065	101.93	.052	110.82
7	.004	211.94	.011	267.40	.013	262.86	.006	297.09	.003	260.97	.017	212.67
8	.033	133.69	.043	132.81	.040	141.13	.038	122.76	.037	146.94	.043	134.22
9	.007	320.04	.008	288.19	.010	257.86	.004	201.47	.012	248.48	.010	255.77
10	.022	77.09	.029	76.54	.018	91.05	.027	52.71	.017	71.85	.024	74.97

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 116 ALPHA-MCL = 6.0 PDP RUN.PT 24.04
RUN 24 ALPHA-PAR = .5 G-COMP = .32348
POINT 3 SIGMA = 90. V-REF = 199.46
COMPUTED FRECUENCY = 15.51, K = .1222

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	25.763	8.979	9.976	3.840	7.121	2.523	4.647	1.766	3.241	.629	2.701	.369	2.087	-.399
2	1.325	-.856	.007	.142	-.002	.005	-.006	.009	-.040	-.088	-.004	.060	-.048	-.040
3	-.326	-.362	-.041	.072	.013	.029	-.003	.005	-.040	.014	.021	.014	-.009	.027
4	.054	.203	.004	.015	.047	.037	-.007	.022	-.014	.008	.012	.021	.001	.009
5	-.078	-.291	.007	-.077	-.004	-.025	.022	-.015	.030	-.014	.043	.018	.022	.019
6	-.210	.209	-.040	-.021	-.012	-.004	-.012	-.027	-.009	-.020	.007	-.010	.011	.000
7	.029	.043	.037	.001	.017	-.005	-.003	.005	.023	.008	-.001	.002	.004	-.011
8	-.043	-.013	-.021	-.010	-.002	-.011	-.016	-.018	-.000	-.022	.008	-.010	.000	-.020
9	-.021	-.049	.001	.001	-.003	-.001	.002	-.000	.000	-.001	.008	-.007	.007	-.001
10	.013	.003	-.001	.004	.007	-.001	-.006	.003	-.004	-.005	-.002	.001	-.009	-.004

X =	.774		.860		.910		N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI						
1	.964	-.280	.542	-.441	.338	-.280	1	4.000	1.025	1	1.024	.435
2	-.000	.136	-.005	-.123	-.082	-.018	2	.019	-.019	2	.024	-.010
3	.000	-.014	-.001	-.017	-.008	-.012	3	-.016	-.002	3	-.006	-.003
4	.008	.034	.011	-.011	-.008	.001	4	.006	.018	4	.002	.003
5	.027	.030	.020	.030	-.012	-.006	5	.018	-.009	5	-.000	-.009
6	.019	.003	.007	.007	.001	-.016	6	-.009	-.008	6	-.006	-.001
7	.004	.001	.008	.003	-.014	.000	7	.002	.002	7	.001	.001
8	.011	-.013	-.001	-.001	-.003	-.004	8	-.003	-.014	8	-.002	-.000
9	.004	.001	.007	-.003	.011	-.004	9	.003	-.003	9	-.001	-.001
10	.007	.000	-.009	-.007	-.008	.006	10	-.002	-.007	10	.001	.000

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
CAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.771	3.147	2.534	2.383	-14.685	-.630	-1.984	1.679	.586	-9.052
2	.607	1.419	.641	1.481	.499	.817	.530	1.224	.104	1.430
3	.277	-.094	.408	-.057	.246	-.134	.248	-.117	.357	.125
4	.168	.116	.208	.130	-.028	.261	.111	.076	.158	.221
5	-.023	.073	.007	.076	.007	.063	-.024	.055	.146	.211
6	-.050	.073	.039	.160	.044	.134	-.005	.101	.077	-.014
7	.003	-.056	.121	.069	.024	-.011	-.006	.006	.098	-.035
8	-.041	.051	-.047	.090	-.049	.115	-.025	.053	-.125	-.040
9	.014	-.011	-.022	-.023	.014	-.036	-.000	-.001	.005	-.065
10	-.033	.012	-.021	-.015	-.000	.041	-.008	.034	-.052	.080

*** STABILITY PARAMETER

* XI = -.4348 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 116 ALPHA-MCL = 6.0 PDP RUN.PT 24.04
RUN 24 ALPHA-BAR = .5 Q-COMP = .32348
POINT 3 SIGMA = 90. V-REF = 199.46
COMPUTED FREQUENCY = 15.51, K = .1222

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	27.283	19.28	10.690	21.05	7.555	19.51	4.972	20.81	3.301	10.99	2.726	7.78	2.125	349.18
2	1.560	326.73	.142	87.08	.006	112.27	.011	125.62	.096	245.42	.060	93.58	.063	220.07
3	.497	228.03	.046	152.19	.032	65.08	.006	119.60	.043	160.75	.025	33.39	.029	108.88
4	.213	72.57	.015	75.54	.047	4.20	.023	108.39	.016	152.18	.025	60.31	.009	85.02
5	.291	268.38	.038	281.15	.025	260.26	.027	324.97	.033	335.54	.047	23.04	.029	40.31
6	.230	177.74	.040	181.10	.013	198.94	.030	246.97	.023	245.18	.013	304.20	.011	.62
7	.044	78.89	.001	85.16	.018	344.00	.006	122.46	.009	67.55	.002	115.95	.011	289.31
8	.050	194.77	.023	205.31	.012	258.33	.025	229.25	.022	269.52	.013	306.37	.020	270.29
9	.053	246.60	.001	66.70	.003	201.25	.002	349.19	.001	280.35	.011	321.23	.007	354.08
10	.013	12.56	.004	133.89	.007	354.98	.007	151.44	.005	226.67	.002	157.74	.010	203.58

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.004	343.82	.698	320.86	.439	320.27
2	.137	98.37	.123	267.51	.084	192.49
3	.015	280.33	.017	267.77	.015	235.84
4	.035	76.65	.016	313.11	.008	173.88
5	.040	48.49	.036	56.66	.014	205.70
6	.019	9.49	.010	47.15	.016	273.02
7	.004	16.77	.009	19.25	.014	178.57
8	.017	309.07	.021	267.90	.005	237.15
9	.004	11.52	.008	335.50	.011	338.19
10	.009	.07	.011	217.19	.010	140.07

N	CN-MAG	PHIN
1	4.129	14.37
2	.025	314.87
3	.016	128.27
4	.019	70.46
5	.020	333.71
6	.012	222.85
7	.003	44.46
8	.015	256.78
9	.004	314.77
10	.002	182.27

N	CM-MAG	PHIM
1	1.112	23.01
2	.026	337.70
3	.007	205.12
4	.004	56.83
5	.009	268.79
6	.007	186.23
7	.001	43.81
8	.002	191.15
9	.001	203.62
10	.001	12.08

*** STABILITY PARAMETER

* XI = -.4348 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.240	76.24	3.464	43.46	14.698	182.46	2.599	139.76	9.071	273.70
2	1.543	66.85	1.614	66.60	.957	58.61	1.334	66.60	1.434	85.83
3	.292	341.22	.412	352.08	.307	323.15	.275	334.70	.378	19.33
4	.204	34.48	.246	31.96	.262	96.22	.135	34.16	.272	54.41
5	.073	108.06	.075	84.94	.064	83.50	.060	113.77	.256	55.28
6	.084	110.97	.164	76.13	.189	76.65	.102	92.99	.078	350.00
7	.007	299.40	.139	29.65	.027	335.84	.009	133.96	.104	340.43
8	.065	128.54	.102	117.59	.126	112.93	.059	115.13	.131	197.69
9	.018	321.23	.032	226.44	.039	291.47	.001	253.65	.065	274.14
10	.013	104.72	.082	190.85	.041	90.41	.035	102.69	.096	123.12

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 118   ALPHA-MCL = 6.0   PPR RUN.PT 24.06
RUN 24   ALPHA-BAR = .5   C-COMP = .32280
POINT 5   SIGMA = 90.   V-REF = 199.74
COMPUTED FREQUENCY = 19.15, K = .1510

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-16.650	-3.786	-5.909	-.304	-3.864	.147	-2.509	.536	-1.973	1.041	-1.675	1.598	-1.368	1.846
2	-.550	.530	.319	.345	.259	.452	.250	.457	.278	.476	.274	.454	.307	.463
3	.444	.222	-.021	-.143	-.033	-.147	-.008	-.179	-.012	-.138	-.022	-.133	.007	-.136
4	.077	-.040	-.062	.040	-.085	.044	-.070	.071	-.078	.019	-.093	.003	-.066	-.019
5	.061	.042	.028	.078	.024	-.001	.019	.018	.004	.022	-.001	.009	-.009	.008
6	.096	-.021	.023	.078	.015	.022	.004	.025	.009	.035	.013	.045	.004	.042
7	-.029	-.027	.005	.038	.007	.041	.016	.042	-.005	.062	.010	.058	.017	.048
8	-.005	-.011	.002	-.054	.006	-.051	.017	-.053	.023	-.065	.025	-.066	.024	-.054
9	.038	.039	.017	.005	.015	-.004	.009	.002	.009	-.006	.006	-.030	.001	.003
10	.027	-.046	.005	-.010	-.003	-.007	-.005	.000	-.010	-.002	-.013	.008	-.010	-.003

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.127	1.792	-.925	1.668	-.816	1.591	8.153	3.564	4.023	3.445	3.100	2.557	2.060	2.331
2	.294	.457	.303	.474	.301	.437	.411	.180	.325	.380	.265	.399	.240	.432
3	-.039	-.137	.002	-.120	.005	-.118	-.015	-.088	-.020	-.098	-.029	-.100	-.015	-.104
4	-.046	-.031	-.033	-.017	-.034	-.011	-.057	-.013	-.065	.014	-.053	.017	-.047	.012
5	-.014	.008	-.005	-.002	-.005	.006	-.027	.017	-.019	.011	-.016	.017	-.009	.005
6	-.001	.039	.004	.032	.005	.033	.003	.060	.007	.050	.005	.046	-.004	.038
7	.036	.055	.004	.049	.012	.050	.043	.059	.034	.054	.023	.056	.003	.055
8	.027	-.052	.015	-.049	.018	-.052	.037	-.061	.023	-.059	.017	-.058	.035	-.062
9	-.001	.067	.002	.010	-.006	.005	-.015	-.021	-.011	-.011	-.005	-.004	-.006	-.001
10	-.008	-.001	-.006	-.010	-.007	-.006	-.029	.022	-.015	.014	-.011	.002	-.005	-.007

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.130	1.885	.974	2.132	.679	1.704	-.147	1.711	-.292	1.634	-.436	1.558
2	.250	.426	.293	.371	.277	.452	.302	.566	.265	.507	.229	.448
3	-.035	-.110	-.041	-.134	-.032	-.122	-.026	-.115	-.027	-.120	-.028	-.125
4	-.040	.025	-.036	.022	-.028	.009	-.027	.017	-.023	.007	-.019	-.010
5	-.004	.015	-.002	.012	-.004	.007	-.000	.007	.007	.011	.015	.016
6	.005	.031	.007	.037	.005	.032	.007	.030	.007	.031	.008	.032
7	.018	.051	.006	.065	.016	.056	.015	.050	.011	.051	.007	.052
8	.013	-.049	.013	-.062	.016	-.057	.017	-.060	.013	-.052	.020	-.045
9	-.007	.003	-.009	.004	-.009	.004	-.008	-.000	-.011	.002	-.013	.003
10	-.005	-.001	-.010	-.004	-.005	-.005	-.007	-.007	-.007	-.004	-.008	-.002

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 118 ALPHA-MCL = 6.0 PDP RUN.PT 24.06
RUN 24 ALPHA-BAR = .5 Q-COMP = .3228D
POINT 5 SIGMA = 93. V-REF = 199.24
COMPUTED FREQUENCY = 19.15, K = .1510

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPP[illegible]		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	17.075	192.81	5.917	182.94	3.866	177.83	2.566	167.95	2.231	152.18	2.316	136.35	2.298	126.55
2	1.625	109.77	.470	47.24	.521	60.16	.521	61.35	.551	59.74	.530	58.94	.556	56.49
3	.496	26.60	.144	261.60	.151	257.32	.130	266.58	.139	265.01	.134	260.79	.136	272.75
4	.087	332.95	.074	147.64	.096	152.42	.073	163.11	.080	166.05	.093	182.03	.069	196.06
5	.074	34.40	.029	16.03	.024	357.43	.026	43.23	.022	76.47	.009	99.35	.012	139.17
6	.088	346.11	.025	18.09	.026	55.02	.025	79.91	.036	74.79	.047	73.57	.042	85.13
7	.040	223.37	.039	82.02	.042	80.32	.046	68.91	.062	94.72	.059	80.21	.051	70.83
8	.056	191.68	.054	272.61	.051	277.15	.055	287.50	.069	289.45	.071	290.57	.059	293.80
9	.055	45.40	.018	17.99	.016	343.39	.039	13.48	.011	326.41	.006	357.91	.004	66.68
10	.053	300.66	.011	295.21	.003	186.98	.005	174.60	.013	191.71	.016	148.33	.010	196.55

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.117	122.17	1.908	119.01	1.789	117.16	8.898	23.61	5.296	40.58	4.019	39.52	3.111	48.53
2	.538	56.81	.563	57.42	.531	55.47	.449	23.70	.501	49.39	.479	56.46	.494	60.99
3	.137	266.75	.120	270.37	.118	272.30	.090	260.58	.103	258.65	.104	253.73	.105	261.70
4	.056	219.17	.037	206.86	.035	198.21	.059	192.45	.067	167.79	.056	161.84	.049	166.14
5	.016	150.34	.005	203.42	.008	130.79	.032	148.45	.022	149.52	.023	132.44	.010	149.90
6	.039	90.98	.033	82.98	.034	81.27	.061	87.15	.051	81.64	.046	83.82	.038	95.49
7	.055	83.41	.049	85.68	.052	76.33	.073	53.57	.064	57.85	.061	67.74	.056	86.47
8	.059	297.16	.051	286.76	.055	289.67	.071	301.02	.065	295.55	.060	286.36	.071	299.55
9	.007	96.82	.010	81.79	.008	137.96	.026	233.52	.016	227.41	.007	215.65	.006	190.72
10	.008	184.59	.011	238.79	.009	219.40	.030	133.52	.021	137.43	.012	172.38	.008	231.18

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.229	57.72	2.335	65.35	1.835	68.27	1.717	94.92	1.663	100.12	1.617	105.63
2	.494	59.57	.598	60.67	.530	58.44	.641	61.90	.572	62.36	.503	62.95
3	.116	252.18	.143	252.89	.124	255.14	.118	257.05	.123	257.27	.128	257.48
4	.047	148.28	.042	148.55	.029	161.50	.032	147.53	.023	171.90	.022	207.99
5	.016	106.56	.012	101.60	.008	122.87	.037	93.62	.013	57.70	.021	46.91
6	.031	80.00	.037	85.01	.033	81.95	.031	77.44	.032	76.84	.033	76.29
7	.054	70.94	.065	84.76	.058	74.11	.052	73.31	.052	78.05	.053	82.71
8	.050	285.45	.065	287.43	.053	287.09	.063	285.57	.056	289.55	.049	294.62
9	.007	178.68	.010	157.71	.010	156.50	.008	187.16	.011	172.02	.014	167.09
10	.006	193.90	.011	203.50	.007	225.93	.010	226.24	.009	210.56	.008	192.22

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 118 ALPHA-MCL = 6.0 PDP RUN.PT 24.06
RUN 24 ALPHA-PAR = .5 Q-COMP = .32280
POINT 5 SIGMA = 90. V-REF = 199.24
COMPUTED FREQUENCY = 19.15, K = .1510

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	24.803	7.351	9.932	3.749	6.964	2.411	4.569	1.795	3.164	.844	2.649	.523	2.048	-.141
2	.961	-1.349	.007	.035	.006	-.052	-.010	-.025	-.023	-.050	.019	.067	-.029	-.011
3	-.458	-.311	.001	.045	.004	.047	-.007	.026	-.023	.028	-.020	-.001	-.038	.016
4	-.135	.027	-.007	-.025	.032	-.027	.023	-.010	.038	.005	.057	.025	.039	.028
5	-.098	-.025	-.047	.003	-.040	.018	-.027	-.013	-.009	-.007	-.001	.003	.005	-.001
6	-.093	.082	-.016	.043	-.010	.025	-.008	.013	-.004	-.004	-.010	-.008	.001	-.009
7	.073	.085	.029	.016	.016	.015	-.013	.013	.023	-.011	-.004	.006	-.001	.008
8	.001	-.049	.026	-.005	.011	-.007	.019	-.010	-.010	.017	-.006	.005	-.008	.004
9	-.054	-.060	-.027	-.017	-.020	.001	-.015	-.003	-.015	.006	-.015	.004	-.011	.001
10	-.048	.067	-.020	.024	-.008	.002	-.030	-.007	.075	.001	.003	-.013	.005	-.002

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.980	-.081	.634	-.034	.381	-.034
2	.078	.115	-.030	.032	-.072	.011
3	-.019	.022	-.029	.000	-.032	-.007
4	.020	.048	.010	.020	.014	.001
5	.013	-.001	.012	.013	.020	.009
6	.007	-.009	.003	-.001	.003	-.001
7	.009	-.005	.007	.002	-.005	.002
8	-.010	-.003	.004	-.004	.002	.007
9	-.008	-.007	-.012	-.008	-.008	-.002
10	.002	-.006	-.002	.005	-.001	.004

N	CNREAL	CNIMAG
1	3.930	1.106
2	.017	-.032
3	-.031	.009
4	.023	.009
5	-.010	.001
6	-.006	.006
7	.007	.007
8	.004	-.001
9	-.015	-.003
10	-.002	.001

N	CMREAL	CMIMAG
1	.996	.380
2	.018	-.027
3	-.004	-.001
4	-.002	-.004
5	-.007	-.001
6	-.003	.004
7	.002	.002
8	.003	-.001
9	-.002	-.001
10	-.002	.002

*** STABILITY PARAMETER

*   *
* XI =   -.3796 *
*   *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.375	2.473	2.806	1.667	-14.307	-1.182	-1.750	.930	1.393	-8.527
2	.360	.555	.344	.440	.256	.364	.353	.515	-.155	.674
3	-.048	-.149	-.175	-.159	-.093	-.329	-.016	-.149	-.257	.333
4	-.095	.046	-.065	.180	-.165	.367	-.089	.016	.106	.225
5	.036	.050	-.041	.016	.049	-.132	.009	.029	.159	-.073
6	.033	.044	-.013	.017	.020	.002	.003	.031	.081	-.013
7	.035	.040	-.031	.006	-.020	.077	.013	.056	.017	-.014
8	.038	-.064	.037	-.075	.025	-.060	.031	-.076	-.028	-.084
9	.035	-.010	-.039	-.001	.013	.027	.011	-.002	-.003	.003
10	-.002	-.064	-.022	-.036	.020	-.034	-.009	-.007	-.015	-.026

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 118 ALPHA-MCL = 6.0 PDP RUN.PT 24.06
RUN 24 ALPHA-BAR = .5 Q-COMP = .32280
POINT 5 SIGMA = 93. V-REF = 199.24
COMPUTED FREQUENCY = 19.15, K = .1510

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	25.870	16.51	10.615	20.68	7.369	19.10	4.909	21.45	3.274	14.93	2.700	11.18	2.053	356.05
2	1.656	335.46	.036	79.12	.053	276.04	.026	249.14	.057	241.19	.070	74.00	.031	201.30
3	.554	214.13	.045	88.24	.047	85.25	.027	105.91	.037	129.75	.020	183.92	.041	157.95
4	.137	168.69	.026	264.27	.042	319.86	.025	337.18	.033	7.83	.062	24.04	.048	36.25
5	.091	195.77	.047	176.43	.044	155.59	.030	204.86	.011	216.92	.003	108.18	.005	348.94
6	.116	135.37	.046	110.64	.027	112.39	.016	121.61	.005	225.63	.013	217.87	.009	276.54
7	.113	49.97	.033	28.75	.022	43.47	.018	134.89	.025	335.24	.007	123.60	.008	95.07
8	.104	331.58	.026	349.93	.013	326.17	.021	332.91	.021	119.62	.007	139.40	.009	157.01
9	.080	227.98	.032	211.69	.020	178.42	.015	192.38	.017	159.48	.016	165.22	.011	176.08
10	.083	125.26	.031	129.77	.009	167.06	.007	266.42	.005	8.96	.013	284.99	.005	331.63

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.983	355.28	.635	356.92	.382	354.92
2	.116	86.16	.050	139.36	.073	171.62
3	.029	130.03	.029	179.98	.033	191.57
4	.052	67.95	.023	63.01	.014	2.38
5	.013	355.51	.018	48.48	.022	25.04
6	.012	308.86	.003	343.42	.003	338.72
7	.010	328.44	.008	18.44	.006	159.50
8	.013	218.04	.006	316.10	.007	74.29
9	.010	222.64	.015	214.13	.008	195.55
10	.007	285.08	.006	105.77	.004	108.20

N	CN-MAG	PHIN
1	4.083	15.72
2	.036	297.67
3	.033	164.53
4	.025	20.72
5	.010	173.15
6	.009	137.62
7	.010	43.54
8	.004	351.04
9	.015	192.01
10	.002	152.54

N	CM-MAG	PHIM
1	1.066	20.85
2	.032	303.80
3	.004	195.21
4	.004	242.95
5	.007	185.33
6	.005	122.82
7	.003	45.37
8	.003	339.05
9	.002	206.18
10	.002	135.07

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.697	66.51	3.264	30.71	14.356	184.72	1.982	152.02	8.640	279.27
2	.662	57.03	.558	51.99	.445	54.91	.624	55.57	.623	104.42
3	.157	252.24	.236	222.22	.342	254.23	.150	264.01	.421	127.70
4	.106	154.05	.191	109.99	.403	114.22	.090	169.81	.249	64.65
5	.050	83.09	.044	158.14	.141	290.29	.030	72.34	.174	335.20
6	.055	53.20	.018	98.76	.030	48.31	.032	74.57	.082	351.16
7	.053	48.65	.031	168.24	.034	126.01	.058	76.64	.022	321.65
8	.065	277.00	.084	295.86	.065	292.67	.082	292.02	.088	251.43
9	.011	299.66	.039	181.54	.030	64.06	.011	352.25	.004	131.53
10	.004	244.29	.042	239.43	.032	309.01	.011	215.21	.030	240.32

*** STABILITY PARAMETER

XI = -.3796

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 120 ALPHA-MCL = 6.0 PRP RUN.PT 25.03
RUN 25 ALPHA-BAR = .5 C-COMP = .31784
POINT 1 SIGMA = 135. V-REF = 197.67
COMPUTED FREQUENCY = 9.14, K = .0726

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X = N	.012-UPPER CPREAL	CPIMAG	.062-UPPER CPREAL	CPIMAG	.148-UPPER CPREAL	CPIMAG	.261-UPPER CPREAL	CPIMAG	.392-UPPER CPREAL	CPIMAG	.530-UPPER CPREAL	CPIMAG	.661-UPPER CPREAL	CPIMAG
1	-18.022	-2.255	-6.989	.514	-4.778	.826	-3.576	1.085	-3.253	1.471	-3.304	1.885	-3.089	2.083
2	-.327	1.156	-.365	-.041	-.045	.301	-.103	.062	-.093	.023	-.099	.072	-.096	.009
3	-.226	-.316	-1.847	-.796	-1.905	-.815	-1.854	-.858	-2.007	-.895	-2.129	-.902	-2.083	-.882
4	-.092	-.495	-.371	-.379	-.365	-.956	-.332	-1.020	-.345	-1.085	-.347	-1.134	-.349	-1.104
5	.179	-.154	.097	-.442	.078	-.447	.078	-.420	.073	-.444	.085	-.492	.059	-.446
6	.052	.110	.170	.216	.151	.221	.145	.217	.147	.228	.157	.225	.145	.207
7	.075	.094	.016	-.193	.039	-.191	.034	-.197	.067	-.233	.068	-.260	.073	-.253
8	-.056	-.023	-.146	.042	-.127	.057	-.148	.026	-.151	.028	-.158	.026	-.155	.008
9	-.077	.061	.051	.042	.061	.042	.059	.036	.082	.040	.065	.035	.075	.035
10	-.075	-.008	-.039	-.047	-.030	-.053	-.033	-.050	-.021	-.048	-.019	-.047	-.012	-.046

X = N	.774-UPPER CPREAL	CPIMAG	.860-UPPER CPREAL	CPIMAG	.910-UPPER CPREAL	CPIMAG	.012-LOWER CPREAL	CPIMAG	.062-LOWER CPREAL	CPIMAG	.148-LOWER CPREAL	CPIMAG	.261-LOWER CPREAL	CPIMAG
1	-2.710	1.913	-2.340	1.769	-2.117	1.728	8.769	2.924	4.029	2.884	3.091	2.316	1.831	2.123
2	-.074	-.060	-.102	-.053	-.091	-.031	-.023	-.213	-.097	-.013	-.099	.016	-.107	.032
3	-2.024	-.895	-2.064	-.944	-2.084	-.895	-1.992	-.650	-2.052	-.771	-1.978	-.773	-1.958	-.847
4	-.376	-1.073	-.306	-1.178	-.363	-1.041	-.417	-1.052	-.431	-1.059	-.381	-1.033	-.329	-1.019
5	.061	-.439	.073	-.457	.046	-.450	-.012	-.497	-.006	-.496	.016	-.477	.046	-.457
6	.175	.207	.140	.194	.155	.179	.177	.167	.172	.182	.163	.180	.137	.187
7	.098	-.245	.122	-.258	.115	-.238	.027	-.248	.045	-.262	.053	-.254	.096	-.235
8	-.155	.015	-.151	.015	-.132	.016	-.095	.096	-.127	.063	-.128	.049	-.137	.019
9	.079	.045	.088	.047	.063	.034	.106	-.084	.105	.005	.106	.018	.103	.045
10	-.016	-.039	-.017	-.037	-.021	-.029	.009	-.073	-.010	-.032	-.014	-.025	.001	-.030

X = N	.392-LOWER CPREAL	CPIMAG	.530-LOWER CPREAL	CPIMAG	.661-LOWER CPREAL	CPIMAG	.774-LOWER CPREAL	CPIMAG	.860-LOWER CPREAL	CPIMAG	.910-LOWER CPREAL	CPIMAG
1	.811	1.717	.335	1.921	.050	1.566	-1.025	1.542	-1.260	1.222	-1.374	1.347
2	-.098	.031	-.127	.024	-.115	-.004	-.135	.145	-.079	-.285	-.323	-.097
3	-1.975	-.778	-2.213	-1.006	-1.952	-.897	-2.129	-.996	-1.981	-.896	-2.008	-.940
4	-.376	-.955	-.362	-1.174	-.235	-1.030	-.347	-1.179	-.315	-1.042	-.324	-1.050
5	.075	-.435	.069	-.524	.040	-.451	.049	-.514	.058	-.469	.010	-.465
6	.157	.152	.174	.109	.171	.156	.166	.182	.144	.177	.165	.136
7	.012	-.241	.121	-.291	.111	-.238	.142	-.251	.120	-.255	.119	-.249
8	-.107	.033	-.172	.074	-.136	.025	-.162	.009	-.133	.001	-.143	.018
9	.104	.029	.123	.047	.107	.031	.118	.043	.172	.021	.118	.034
10	-.014	-.021	-.014	-.071	-.018	-.023	-.005	-.029	-.075	-.029	-.025	-.034

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 120 ALPHA-MCL = 6.0 PDP RUN.FT 25.03
RUN 25 ALPHA-BAR = .5 Q-COMP = .31784
POINT 1 SIGMA = 135. V-REF = 197.67
COMPUTED FREQUENCY = 9.14, K = .0726

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	13.163	187.13	7.009	175.79	4.849	170.19	3.737	163.13	3.573	155.67	3.803	150.30	3.704	146.52
2	1.201	105.78	.079	211.29	.045	178.55	.120	149.04	.099	166.51	.122	144.14	.096	174.84
3	.388	234.40	2.011	203.31	2.072	203.16	2.043	204.83	2.193	204.05	2.313	202.96	2.262	202.96
4	.501	260.64	1.047	249.23	1.024	249.14	1.073	251.95	1.139	252.34	1.186	252.98	1.158	252.46
5	.201	310.11	.453	282.41	.453	279.90	.427	280.50	.451	279.92	.499	279.85	.450	277.57
6	.126	60.68	.275	51.81	.268	55.70	.261	56.27	.271	57.13	.274	54.98	.253	55.05
7	.101	67.98	.183	275.09	.195	281.60	.200	279.65	.242	286.08	.268	284.66	.263	286.19
8	.070	199.52	.151	164.08	.137	157.17	.150	170.09	.154	169.47	.160	170.68	.156	176.89
9	.072	121.36	.066	39.75	.074	34.22	.069	31.17	.092	26.11	.074	28.28	.083	25.04
10	.036	193.38	.061	230.62	.061	240.74	.060	236.77	.052	247.17	.051	247.61	.048	255.85

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.317	144.78	2.934	142.92	2.732	140.78	9.243	18.44	4.955	35.60	3.862	36.84	2.804	49.23
2	.074	190.04	.102	181.82	.096	198.51	.214	263.77	.099	167.71	.100	170.71	.112	163.32
3	2.213	203.85	2.270	204.56	2.268	203.[illegible]	2.096	198.07	2.192	200.60	2.124	201.35	2.134	203.40
4	1.121	253.10	1.149	254.56	1.102	250.80	1.132	248.35	1.132	249.28	1.101	249.77	1.071	252.09
5	.443	277.91	.463	279.09	.452	275.81	.498	268.60	.495	269.31	.478	271.96	.459	275.79
6	.241	58.84	.240	54.19	.236	49.04	.243	43.40	.250	46.56	.243	47.88	.232	53.76
7	.264	291.73	.286	295.39	.265	295.66	.249	276.18	.266	279.75	.259	281.89	.254	292.10
8	.156	174.53	.152	174.48	.153	174.18	.130	137.00	.142	153.40	.137	158.94	.138	171.95
9	.090	29.50	.100	27.90	.089	22.19	.136	358.08	.105	2.74	.107	9.67	.113	23.75
10	.042	247.14	.040	245.25	.036	234.29	.025	291.06	.033	252.84	.029	240.36	.030	271.86

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.899	64.75	1.957	80.10	1.567	88.19	1.851	123.61	1.756	135.87	1.924	135.56
2	.102	162.30	.122	168.60	.116	182.29	.195	131.85	.087	264.19	.337	196.68
3	1.966	203.32	2.431	204.43	2.148	204.68	2.351	205.06	2.173	204.34	2.217	205.10
4	1.009	251.15	1.229	252.86	1.083	251.99	1.162	252.65	1.089	253.13	1.098	252.85
5	.436	274.65	.526	275.18	.453	275.05	.516	275.42	.463	277.24	.465	271.28
6	.219	44.17	.264	48.89	.232	42.33	.247	47.59	.229	50.88	.214	39.61
7	.254	288.91	.306	293.28	.263	294.97	.288	299.54	.281	295.13	.276	295.55
8	.132	165.27	.174	171.93	.139	169.45	.162	177.01	.133	179.56	.144	172.92
9	.108	15.46	.137	20.02	.111	16.17	.126	19.91	.104	11.47	.123	16.28
10	.026	236.73	.034	246.38	.029	231.63	.030	260.84	.021	254.96	.042	233.73

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 120 ALPHA-MCL = 6.0 PDP RUN.PT 25.03
RUN 25 ALPHA-PAR = .5 Q-COMP = .31754
POINT 1 SIGMA = 135. V-REF = 197.67
COMPUTED FREQUENCY = 9.14, K = .0726

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	26.771	5.179	11.318	2.370	7.869	1.489	5.407	1.039	4.063	.247	3.639	.037	3.139	-.477
2	.3[illegible]3	-1.369	-.033	.078	-.053	.015	-.034	-.030	-.003	.208	-.020	-.048	-.020	-.013
3	-1.766	-.334	-.005	.025	-.073	.042	-.104	.011	.201	.117	-.084	-.103	.131	-.015
4	-.336	-.557	-.029	-.080	-.016	-.076	.003	.001	.019	.130	-.015	-.040	.014	.074
5	-.142	-.344	-.103	-.053	-.062	-.031	-.031	-.038	-.042	.009	-.038	-.032	-.019	-.005
6	.115	.057	.002	-.035	.012	-.041	-.008	-.030	.010	-.076	.016	-.026	.027	-.051
7	-.011	-.342	.026	-.079	.014	-.067	.062	-.038	.015	-.008	.053	-.021	.038	.014
8	-.029	.112	.019	.022	-.001	-.004	.011	-.006	.024	.005	-.014	-.001	.019	.017
9	.143	-.065	.054	-.037	.045	-.024	.044	.010	.022	-.012	.063	.012	.032	-.004
10	.044	-.015	.029	.016	.015	.028	.034	.020	.006	.026	.006	.016	-.007	.023

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.625	-.371	1.083	-.546	.743	-.380
2	-.056	.145	.093	-.033	-.231	-.066
3	-.106	-.101	.085	.048	.077	-.046
4	-.001	-.037	-.010	.066	.039	-.009
5	-.012	-.075	-.015	-.003	-.035	-.015
6	.041	-.024	.004	-.017	.010	-.042
7	.044	-.006	-.003	.023	.004	-.010
8	-.007	-.006	.018	-.014	.009	.002
9	[illegible]	-.002	.013	-.026	.035	.001
10	.012	.009	.012	.017	-.004	-.005

N	CNREAL	CNIMAG
1	4.781	.483
2	-.026	-.045
3	-.056	-.015
4	-.010	-.010
5	-.040	-.035
6	.016	-.036
7	.029	-.031
8	.006	.005
9	.041	-.008
10	.011	.016

N	CMREAL	CMIMAG
1	1.062	.281
2	.011	-.019
3	-.039	.004
4	-.007	-.013
5	-.006	-.006
6	-.000	.000
7	.001	-.011
8	-.000	.002
9	.003	-.002
10	.003	.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
CAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.143	2.624	2.743	1.754	-16.206	-.015	-2.823	1.501	7.420	-8.588
2	-.192	.144	-.262	.019	-.142	-.873	-.107	-.032	-.504	-1.043
3	-2.690	-1.046	-2.773	-.085	-2.668	-1.118	-2.404	-1.105	-2.105	-1.893
4	-.579	-1.424	-.758	-1.482	-.677	-1.057	-.427	-1.290	-.246	-1.217
5	.013	-.655	-.167	-.591	.132	-.510	.062	-.562	.071	-.838
6	.023	[illegible]	.408	.402	.152	.379	.173	.276	.046	.296
7	[illegible]	-.068	.231	-.107	.105	-.195	.013	-.274	.369	-.464
8	-.195	[illegible]	-.162	.062	-.210	-.024	-.164	.044	-.050	-.119
9	.123	.057	.152	.012	.169	.053	.102	.036	.121	.081
10	-.019	[illegible]	.089	-.009	-.064	-.100	-.023	-.049	-.103	-.065

*** STABILITY PARAMETER

XI = -.2806

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 120 ALPHA-MCL = 6.0 PDP RUN.PT 25.03
RUN 25 ALPHA-BAR = .5 Q-COMP = .31784
POINT 1 SIGMA = 135. V-REF = 197.67
COMPUTED FRECUENCY = 9.14, K = .0726
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	27.287	10.94	11.269	12.14	8.009	10.72	5.506	19.88	4.073	3.47	3.639	.58	3.175	351.36
2	1.4[illegible]2	282.49	.341	136.63	.056	164.30	.030	262.90	.037	106.97	.352	246.81	.024	213.63
3	1.798	190.72	.206	173.09	.084	150.29	.104	174.12	.233	30.23	.133	230.86	.132	353.55
4	.650	238.91	.085	9.91	.078	258.12	.003	16.54	.131	81.53	.043	249.34	.075	79.17
5	.372	247.61	.116	207.36	.069	206.48	.049	237.10	.043	167.38	.050	220.19	.020	195.46
6	.129	26.46	.035	273.20	.043	286.82	.031	255.43	.076	277.21	.030	301.92	.058	297.54
7	.342	268.14	.084	289.89	.064	282.77	.073	329.38	.017	333.23	.057	338.11	.040	20.44
8	.115	104.32	.029	49.75	.004	252.06	.013	329.11	.024	12.63	.014	185.89	.026	41.56
9	.157	335.73	.066	325.60	.050	332.10	.045	12.35	.024	331.69	.064	10.47	.032	352.81
10	.046	341.02	.033	28.20	.032	61.08	.039	30.56	.027	77.12	.017	70.13	.024	105.77

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.726	347.57	1.211	333.17	.835	332.88
2	.156	111.20	.125	318.09	.241	195.95
3	.146	223.72	.297	29.62	.389	329.22
4	.042	240.63	.066	98.69	.040	347.57
5	.076	260.68	.015	190.52	.039	203.34
6	.048	329.43	.017	283.95	.043	283.07
7	.045	352.78	.004	131.93	.011	292.81
8	.009	223.66	.023	323.56	.010	13.48
9	.040	357.53	.029	297.29	.035	1.13
10	.015	39.18	.020	55.20	.006	230.42

N	CN-MAG	PHIN
1	4.805	5.74
2	.052	240.16
3	.058	194.85
4	.014	223.49
5	.053	220.93
6	.039	294.15
7	.042	313.93
8	.008	38.99
9	.042	349.48
10	.019	54.62

N	CM-MAG	PHIM
1	1.098	14.80
2	.022	299.96
3	.039	174.57
4	.015	240.62
5	.009	222.32
6	.000	119.70
7	.011	275.09
8	.002	91.55
9	.004	325.73
10	.003	24.39

*** STABILITY PARAMETER

XI = -.2806

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.300		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.362	66.47	3.256	32.60	16.206	180.05	3.197	152.00	11.350	310.83
2	.240	143.07	.263	175.84	.885	260.78	.112	195.74	1.159	244.19
3	2.886	201.25	2.942	199.56	2.893	202.74	2.646	204.69	2.831	221.96
4	1.537	247.88	1.665	242.93	1.255	237.38	1.358	251.67	1.242	258.56
5	.656	271.10	.615	254.24	.527	284.52	.565	276.34	.841	274.82
6	.361	51.85	.573	44.56	.372	65.79	.328	57.09	.299	81.21
7	.273	280.97	.254	335.25	.222	298.28	.274	272.77	.593	308.41
8	.214	158.26	.173	159.11	.211	186.57	.170	165.33	.129	247.18
9	.137	24.56	.152	4.45	.177	17.42	.108	13.19	.146	33.69
10	.020	198.11	.090	354.13	.118	237.56	.054	245.11	.122	212.51

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 122 ALPHA-MCL = 6.0 PDP RUN.PT 25.05
RUN 25 ALPHA-BAR = .5 C-COMP = .32156
POINT 3 SIGMA = 135. V-REF = 198.84
COMPUTED FREQUENCY = 15.50, K = .1224

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.973	-2.349	-7.286	-1.135	-5.046	-.990	-3.820	-.798	-3.574	-.630	-3.547	-.337	-3.368	-.181
2	-.334	.989	-.080	-.322	-.084	-.272	-.099	-.265	-.095	-.033	-.122	-.331	-.102	-.345
3	.249	.147	-.109	.079	-.135	-.012	-.090	.073	-.104	-.003	-.087	.011	-.058	.023
4	-.077	-.082	.045	-.172	.038	.014	.032	-.030	.041	-.049	.032	.005	.020	.015
5	.062	.055	-.098	.039	-.107	.089	-.138	.096	-.142	.093	-.148	.057	-.147	.077
6	.050	-.045	.051	.070	.033	.038	.029	.035	.020	.024	.039	.017	.036	.028
7	.016	-.068	-.061	-.016	-.051	-.022	-.066	-.032	-.051	-.033	-.058	-.031	-.047	-.015
8	-.020	-.059	-.047	-.054	-.042	-.079	-.027	-.074	-.034	-.075	-.032	-.071	-.026	-.065
9	.017	.012	-.029	.019	-.035	.014	-.027	.014	-.025	.005	-.032	.013	-.039	.009
10	.024	.001	.025	.039	.014	.050	.020	.050	.016	.060	.013	.069	.010	.065

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.978	-.267	-2.399	-.447	-2.365	-.507	9.578	.757	3.879	1.142	2.792	.413	1.557	.221
2	-.172	[illegible]	-.199	-.349	-.119	-.351	.039	-.541	-.019	-.341	-.068	-.299	-.076	-.298
3	-.050	[illegible]	-.051	.029	-.041	.021	-.030	-.020	-.055	-.042	-.072	-.023	-.064	-.018
4	.019	[illegible]	.009	.010	.005	.022	.053	-.032	.043	.001	.050	-.004	.041	-.003
5	-.178	.055	-.167	.059	-.137	.057	-.122	.123	-.132	.091	-.131	.083	-.137	.053
6	.019	.021	.022	.026	.036	.030	.039	.029	.019	.015	.016	.018	.017	.022
7	-.044	-.015	-.052	-.010	-.057	-.007	-.047	-.024	-.040	-.018	-.048	-.023	-.035	-.030
8	-.035	-.072	-.036	-.069	-.039	-.057	-.020	-.049	-.034	-.069	-.029	-.059	-.015	-.072
9	-.038	.006	-.033	.017	-.033	.017	-.037	.015	-.034	.001	-.025	-.002	-.023	-.004
10	.039	.063	.017	.065	.039	.057	-.028	.046	-.035	.042	-.001	.046	-.019	.055

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.867-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.579	-.300	.067	-.272	-.196	-.319	-1.243	-.455	-1.632	-.605	-1.447	-.565
2	-.066	-.272	-.090	-.347	-.082	-.321	-.099	-.275	-.072	-.434	-.191	-.332
3	-.054	-.009	-.071	-.073	-.058	.002	-.033	.046	.045	.024	-.068	.002
4	.078	-.004	.029	.000	.024	.009	.018	-.077	.074	.026	.017	-.019
5	-.172	.054	-.153	.072	-.133	.059	-.149	.041	-.149	.049	-.136	.043
6	.019	.003	.024	.016	.027	.019	.010	.024	.017	.005	.030	.017
7	-.076	-.017	-.047	-.023	-.037	-.013	-.050	-.077	-.052	-.022	-.040	-.010
8	[illegible]	-.057	-.040	-.058	-.037	-.054	-.042	-.072	-.039	-.068	-.039	-.047
9	[illegible]	[illegible]	-.014	-.072	-.016	.037	-.038	-.073	-.017	.037	-.014	.003
10	[illegible]	.044	.001	.059	.005	.057	.039	.056	.003	.050	.036	.047

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 122 ALPHA-MCL = 6.0 PDP RUN.PT 25.05
RUN 25 ALPHA-PAR = .5 C-COMP = .32156
POINT 3 SIGMA = 135. V-REF = 198.84
COMPUTED FREQUENCY = 15.50, K = .1224

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.057	187.47	7.374	188.85	5.142	191.10	3.903	191.81	3.623	190.00	3.563	185.43	3.373	183.07
2	1.044	108.66	.331	256.99	.285	252.90	.233	249.61	.317	252.45	.352	249.82	.359	253.47
3	.280	31.66	.109	175.12	.135	184.90	.090	177.90	.104	181.61	.087	172.82	.063	158.46
4	.082	265.32	.050	333.55	.041	20.70	.032	359.82	.042	349.01	.032	8.19	[illegible]	37.08
5	.083	41.84	.132	137.62	.134	143.32	.168	145.18	.170	146.93	.172	149.73	.166	152.39
6	.075	323.27	.051	.29	.034	13.54	.029	9.08	.032	50.71	.041	24.09	.046	38.25
7	.014	325.10	.063	195.08	.056	203.38	.073	205.68	.069	278.69	.066	208.40	.049	197.64
8	.062	251.18	.078	236.04	.088	241.71	.079	250.18	.082	245.31	.078	245.62	.070	247.78
9	.070	34.50	.034	145.95	.037	157.82	.030	152.92	.027	170.22	.034	156.97	.040	167.07
10	.024	2.38	.044	62.72	.052	74.40	.054	67.92	.062	75.08	.071	79.67	.066	81.15

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.990	185.12	2.637	189.76	2.419	192.10	8.611	5.04	4.043	16.41	2.823	8.41	1.572	8.08
2	.344	252.82	.363	254.17	.370	251.28	.543	274.13	.344	263.49	.307	257.26	.307	255.75
3	.053	159.95	.059	150.40	.046	153.28	.036	213.03	.070	216.61	.075	197.45	.067	195.26
4	.020	14.14	.014	49.10	.022	77.28	.062	329.11	[illegible]	1.10	.050	355.77	.041	356.06
5	.152	154.77	.170	159.81	.146	156.94	.160	139.74	[illegible]	145.53	.156	147.62	.146	159.00
6	.028	49.01	.034	48.94	.047	40.05	.040	13.73	[illegible]	39.66	.025	47.97	.028	53.54
7	.046	198.81	.051	191.22	.058	187.27	.058	215.57	.044	203.77	.053	205.42	.046	220.40
8	.080	244.18	.078	242.22	.069	235.71	.053	248.23	.076	243.92	.066	243.78	.074	258.23
9	.039	171.15	.037	153.56	.036	158.35	.040	157.66	.034	177.75	.025	184.57	.023	190.05
10	.064	81.79	.066	79.33	.058	80.75	.046	100.07	.042	97.71	.046	91.63	.058	108.49

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.579	359.98	.212	288.25	.374	238.46	1.324	200.09	1.741	200.35	1.553	201.31
2	.290	256.32	.358	255.38	.331	255.58	.227	244.22	.441	260.56	.383	240.05
3	.065	187.82	.071	182.02	.058	177.73	.056	125.52	.052	152.32	.068	178.09
4	.029	350.95	.029	.61	.024	.33	.019	340.32	.026	81.00	.026	311.67
5	.134	156.00	.169	154.70	.145	156.06	.154	164.37	.157	161.69	.143	162.49
6	.021	23.48	.030	37.18	.033	34.56	.026	67.98	.018	15.83	.034	28.91
7	.042	203.86	.052	206.25	.039	198.96	.050	188.38	.057	202.98	.041	194.01
8	.064	236.37	.079	239.89	.065	235.41	.084	239.76	.078	240.29	.060	230.76
9	.024	168.32	.019	187.60	.018	156.67	.038	164.34	.020	172.60	.015	166.95
10	.044	84.46	.059	88.94	.050	84.00	.057	81.04	.050	80.32	.048	83.25

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 122 ALPHA-MCL = 6.0 PDP RUN.PT 25.05
RUN 25 ALPHA-BAR = .5 Q-COMP = .32156
POINT 3 SIGMA = 135. V-REF = 198.84
COMPUTED FREQUENCY = 15.50, K = .1224

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	26.451	3.106	11.165	2.277	7.838	1.403	5.377	1.019	4.153	.630	3.614	.135	3.172	-.138
2	.373	-1.533	.041	-.020	.016	-.027	.023	-.033	.029	.030	.031	-.016	.020	.024
3	-.269	-.167	.052	-.051	.063	-.011	.026	-.071	.043	-.006	.015	-.013	.000	-.021
4	.060	.050	.007	.023	.012	-.018	.008	-.003	-.013	.003	-.007	-.004	.005	-.015
5	-.184	.048	-.034	.001	-.024	.004	.031	-.043	.021	-.038	-.004	-.015	.014	-.018
6	-.071	.054	-.032	.015	-.017	.012	-.012	.018	-.001	-.016	-.014	.001	-.009	-.009
7	-.059	-.025	.021	-.001	.003	-.001	.031	.002	.022	.015	.012	.008	.010	.002
8	.000	.010	.010	-.004	.013	.018	.012	.002	-.001	.022	-.007	.003	-.011	.011
9	-.004	.004	-.006	-.018	.010	-.016	.004	-.018	.002	.000	.013	-.016	.022	-.002
10	-.073	.045	-.026	.002	-.015	-.004	-.039	.006	-.012	-.016	-.012	-.011	-.005	-.015

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.734	-.138	.967	-.158	.918	-.058
2	.003	.124	.027	-.085	-.072	.019
3	.017	.028	.005	-.005	-.027	-.018
4	-.001	-.011	-.005	.016	.012	-.041
5	-.010	-.024	.010	-.009	-.002	-.014
6	-.009	.002	-.005	-.021	-.006	-.014
7	-.006	.008	-.002	-.012	.017	-.003
8	-.007	-.000	-.002	.001	.001	.01[illegible]
9	.0[illegible]0	-.009	.014	-.014	.019	-.010
10	-.000	-.007	-.004	-.016	-.004	-.013

N	CNREAL	CNIMAG
1	4.803	.575
2	.025	-.041
3	.012	-.017
4	.003	-.005
5	-.007	-.017
6	-.011	.001
7	.011	.003
8	.000	.008
9	.007	-.010
10	-.013	-.006

N	CMREAL	CMIMAG
1	1.054	.217
2	.010	-.028
3	.002	-.005
4	.001	.003
5	-.004	.001
6	-.001	.003
7	.000	-.000
8	.002	.000
9	-.002	-.001
10	-.003	.002

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.175		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.750	.032	2.544	-.596	-16.359	-1.963	-3.221	-.912	7.127	-9.705
2	-.084	-.372	-.324	-.086	-.004	-.900	-.142	-.444	-1.042	-.874
3	-.170	-.024	-.199	.012	-.292	-.022	-.075	-.025	-.512	-.197
4	.095	-.016	.102	.001	-.005	.218	.030	-.011	.085	-.112
5	-.179	.130	-.234	.085	-.117	.036	-.169	.114	-.097	-.156
6	.035	.013	.101	.049	.006	.096	.023	.020	-.059	-.019
7	-.093	-.016	-.046	-.038	-.076	-.066	-.071	-.046	-.135	-.045
8	-.[illegible]34	-.083	-.079	.029	-.055	-.061	-.035	-.092	-.112	-.144
9	-.[illegible]38	.031	-.050	.020	-.060	-.010	-.032	.006	-.081	.060
10	.016	.051	-.007	.037	.037	.073	.026	.067	.059	.073

*** STABILITY PARAMETER

* XI = -.2171 *

C-4

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 122 ALPHA-MCL = 6.0 PCP RUN.PT 25.05
RUN 25 ALPHA-RAP = .5 C-COMP = .32156
POINT 3 SIGMA = 135. V-REF = 198.84
COMPUTED FREQUENCY = 15.50, K = .1224

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	26.663	6.69	11.395	11.53	7.963	10.15	5.472	10.74	4.203	8.62	3.616	2.18	3.175	357.51
2	1.575	233.70	.345	333.97	.032	300.73	.043	339.84	.042	45.71	.035	332.67	.031	50.28
3	.316	211.82	.073	315.77	.064	350.12	.033	321.72	.041	351.62	.020	318.93	.021	270.83
4	.078	39.46	.023	82.34	.022	303.28	.009	342.25	.013	164.83	.006	231.42	.015	286.91
5	.190	165.37	.034	177.60	.025	171.75	.043	271.37	.043	297.80	.015	254.40	.023	308.46
6	.058	111.24	.036	154.60	.020	148.30	.022	124.83	.016	267.97	.014	174.48	.013	227.92
7	.054	233.48	.021	356.54	.004	351.25	.031	3.38	.023	36.04	.014	36.25	.011	12.89
8	.010	87.14	.011	336.81	.022	55.52	.012	10.09	.022	92.52	.005	158.66	.015	133.48
9	.054	176.03	.019	250.12	.019	301.25	.018	281.81	.002	9.65	.021	309.01	.023	355.32
10	.055	126.00	.026	174.56	.016	193.26	.039	171.63	.020	233.60	.016	222.72	.016	251.99

X =	.774		.850		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.744	353.81	.980	350.70	.920	356.40
2	.124	58.74	.089	287.42	.075	165.35
3	.033	58.42	.007	316.94	.033	214.38
4	.011	263.95	.017	106.60	.043	286.46
5	.026	246.85	.014	318.14	.014	261.34
6	.009	164.85	.021	255.99	.015	246.70
7	.010	127.91	.012	260.41	.017	351.19
8	.037	183.21	.003	159.22	.011	85.26
9	.009	270.06	.020	314.44	.021	332.46
10	.037	267.93	.016	256.23	.011	249.49

N	CN-MAG	PHIN
1	4.837	6.83
2	.047	301.19
3	.021	306.04
4	.006	304.00
5	.018	247.58
6	.011	176.19
7	.011	15.10
8	.008	88.64
9	.012	304.17
10	.015	204.90

N	CM-MAG	PHIM
1	1.076	11.64
2	.030	290.08
3	.005	288.91
4	.003	69.15
5	.004	169.36
6	.003	116.36
7	.000	340.91
8	.002	14.60
9	.002	196.42
10	.003	147.61

*** STABILITY PARAMETER

*
* XI = -.2171 *
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.751	2.47	2.613	346.83	16.477	186.84	3.348	195.81	12.041	306.29
2	.381	257.28	.504	229.95	.950	251.32	.466	252.23	1.360	220.00
3	.172	188.05	.199	176.65	.293	184.33	.079	193.44	.548	201.04
4	.096	350.21	.102	.53	.218	91.33	.032	339.98	.140	307.05
5	.221	144.08	.249	160.09	.145	143.53	.203	146.03	.183	238.06
6	.037	20.55	.112	25.93	.096	86.34	.031	41.38	.062	197.86
7	.091	190.13	.059	219.59	.101	221.02	.085	212.79	.142	198.62
8	.099	236.99	.081	165.50	.082	227.66	.099	249.10	.182	232.00
9	.049	141.18	.054	158.64	.061	129.59	.032	169.05	.101	143.41
10	.053	72.16	.038	100.68	.082	63.06	.071	68.66	.094	51.11

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 124 ALPHA-MCL = 6.[illegible] PRP RUN.PT 25.37
RUN 25 ALPHA-RAP = .5 C-COMP = .32198
POINT 5 SIGMA = 135. V-REF = 198.97
COMPUTED FREQUENCY = 19.12, K = .1510

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.423	-1.947	-7.555	-.209	-5.379	-.326	-4.099	.088	-3.877	.357	-3.885	.645	-3.651	.877
2	-.225	1.274	.395	.228	.426	.294	.417	.328	.435	.357	.464	.342	.468	.345
3	.278	-.708	-.106	-.023	-.112	-.012	-.054	.016	-.069	.039	-.074	.062	-.082	.091
4	-.053	.025	-.137	.060	-.146	.069	-.136	.028	-.145	.014	-.137	.015	-.130	.014
5	.151	.013	.051	.027	.041	.028	.019	.027	.022	.036	.026	.046	.023	.040
6	-.058	-.047	-.039	.016	-.034	.027	-.024	.023	-.032	.036	-.033	.040	-.033	.046
7	.073	.084	.009	.070	.009	.057	.007	.047	.015	.054	.004	.055	.004	.061
8	-.[illegible]	-.060	.011	-.020	.011	-.006	.016	.005	.010	.006	.017	.008	.012	.008
9	-.002	.097	-.009	.030	-.005	.015	.005	.013	.005	.009	.011	.006	.016	.015
10	.046	-.051	.024	-.042	.019	-.036	.024	-.035	.024	-.026	.024	-.024	.025	-.045

X =	.774-UPPER		.869-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.273	.773	-2.895	.648	-2.668	.620	[illegible].364	1.945	3.741	2.430	2.586	1.573	1.287	1.389
2	.446	.347	.446	.345	.440	.327	.566	.056	.561	.309	.492	.313	.454	.339
3	-.012	.081	-.102	.078	-.090	.083	.069	.054	.012	.062	-.013	.057	-.034	.042
4	-.100	-.007	-.122	-.014	-.119	-.007	-.120	-.035	-.145	-.036	-.147	-.005	-.132	-.027
5	.014	.039	.027	.076	.016	.048	-.047	.012	-.023	.027	-.020	.019	-.010	.015
6	-.079	.045	-.039	.044	-.036	.038	.017	.070	-.005	.057	-.008	.046	-.023	.044
7	.007	.056	.019	.057	.015	.051	-.008	.010	.003	.021	.016	.022	.012	.035
8	[illegible]	.013	.003	.007	.005	.017	.019	.037	.019	.026	.004	.027	-.007	.024
9	.017	.011	.023	.019	.016	.014	.021	-.032	.011	-.016	.027	-.005	.019	.007
10	.024	-.032	.029	-.043	.025	-.034	.021	-.034	.025	-.039	.039	-.053	.062	-.034

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.869-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.327	1.048	-.274	1.112	-.503	.790	-1.599	.807	-1.651	.686	-1.702	.565
2	.432	.308	.507	.308	.434	.312	.477	.459	.436	.430	.335	.340
3	-.049	.033	-.073	.058	-.071	.045	-.125	.062	-.103	.055	-.092	.048
4	-.101	-.004	-.145	-.029	-.118	-.023	-.130	-.040	-.119	-.029	-.108	-.018
5	-.[illegible]	.029	.001	.017	.006	.018	.001	.015	.011	.019	.021	.023
6	-.[illegible]	.041	-.027	.045	-.029	.034	-.031	.050	-.033	.037	-.035	.024
7	.015	.032	.024	.040	.018	.037	.019	.051	.017	.047	.014	.043
8	[illegible]	.017	-.031	.016	.003	.009	.002	.019	.001	.017	-.001	.014
9	[illegible]	.007	.01[illegible]	.005	.016	.008	.011	.006	.011	.007	.011	.008
10	[illegible]	-.029	[illegible]	-.026	.037	-.023	.029	-.0[illegible]	.032	-.013	.026	-.005

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 124 ALPHA-MCL = 6.0 PDP RUN.PT 25.07
RUN 25 ALPHA-BAR = .5 G-COMP = .32198
POINT 5 SIGMA = 135. V-REF = 198.97
COMPUTED FREQUENCY = 19.12, K = .1510

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	13.525	186.03	7.558	181.59	5.379	180.28	4.100	178.77	3.893	174.74	3.938	170.57	3.754	166.49
2	1.293	100.03	.447	27.72	.518	34.64	.530	38.23	.563	39.33	.576	36.37	.581	36.36
3	.209	357.76	.108	192.26	.112	185.93	.066	166.12	.079	150.79	.096	140.20	.122	132.11
4	.059	154.61	.149	156.26	.161	154.80	.139	168.34	.145	174.48	.138	173.83	.130	173.76
5	.162	4.75	.058	27.40	.050	34.35	.033	53.98	.042	58.38	.053	60.01	.047	60.04
6	.075	218.61	.042	157.63	.043	141.33	.041	125.78	.043	131.58	.052	129.13	.057	125.87
7	.099	57.48	.071	82.46	.056	80.94	.057	82.87	.057	73.29	.055	86.04	.061	86.37
8	.063	251.66	.023	298.73	.012	329.70	.017	15.57	.011	29.90	.014	31.22	.014	34.27
9	.097	91.25	.031	106.77	.015	107.23	.014	70.84	.011	62.04	.013	27.39	.022	42.26
10	.068	312.03	.048	299.41	.041	298.46	.042	305.08	.036	312.56	.034	314.71	.051	298.86

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.363	166.71	2.966	167.39	2.739	166.97	8.588	13.09	4.461	33.00	3.027	31.32	1.894	47.20
2	.562	37.53	.364	37.77	.548	36.61	.569	5.68	.643	28.73	.583	32.43	.567	36.69
3	.115	135.17	.129	142.80	.122	137.32	.094	42.84	.063	78.77	.059	102.30	.054	128.99
4	.120	183.25	.123	186.63	.119	183.36	.125	196.17	.146	182.35	.143	181.84	.135	191.68
5	.042	70.34	.042	60.89	.050	71.97	.048	166.11	.028	134.96	.027	137.53	.018	123.97
6	.060	130.94	.059	131.18	.052	133.78	.072	76.57	.057	95.23	.047	99.34	.050	117.77
7	.056	83.28	.060	72.70	.054	74.09	.013	129.74	.021	81.10	.028	53.40	.037	70.31
8	.014	62.78	.008	64.39	.012	65.30	.042	62.47	.032	54.90	.027	80.87	.025	106.55
9	.021	33.34	.029	39.25	.021	40.62	.038	303.75	.019	305.14	.021	345.78	.020	21.13
10	.040	306.19	.051	303.80	.043	306.34	.040	301.28	.047	302.28	.065	306.15	.071	330.97

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.098	72.68	1.145	103.96	.936	122.50	1.792	153.22	1.788	157.44	1.793	161.65
2	.522	36.12	.639	37.46	.534	35.71	.662	43.91	.569	44.56	.477	45.47
3	.052	142.14	.093	141.90	.084	147.89	.139	153.41	.121	153.05	.103	152.55
4	.122	181.88	.151	191.06	.120	190.84	.136	197.19	.122	193.72	.109	189.41
5	.020	100.38	.017	86.79	.019	71.34	.015	87.53	.022	59.49	.031	46.65
6	.046	116.10	.053	120.58	.045	130.88	.059	121.43	.050	131.40	.043	145.19
7	.036	63.49	.047	58.58	.041	63.65	.054	69.43	.050	70.72	.046	72.26
8	.014	72.69	.018	92.30	.010	72.52	.019	83.33	.017	87.86	.015	93.88
9	.013	11.39	.019	15.34	.018	26.74	.013	26.04	.013	30.04	.014	33.71
10	.045	319.56	.054	328.40	.044	327.75	.043	332.08	.034	338.14	.026	348.13

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 124 ALPHA-MCL = 6.0 PDP RUN.PT 25.07
RUN 25 ALPHA-BAR = .5 Q-COMP = .32198
POINT 5 SIGMA = 135. V-REF = 198.97
COMPUTED FREQUENCY = 19.12, K = .1510

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	25.737	3.892	11.296	2.639	7.965	1.599	5.386	1.301	4.204	.691	3.611	.466	3.147	-.087
2	.701	-1.217	.166	.100	.066	.018	.038	.010	-.013	-.049	.043	.047	-.034	-.033
3	-.139	.072	.118	.035	.099	.069	.030	.026	.020	-.001	.001	-.004	.011	-.046
4	-.057	-.060	-.010	-.056	.003	-.073	.004	-.055	.023	-.018	-.011	-.044	.012	-.037
5	-.208	-.002	-.071	-.007	-.062	-.010	-.030	-.012	-.026	-.016	-.025	-.028	-.017	-.022
6	.075	.116	.034	.041	.026	.019	.001	.011	.012	.005	.006	.025	.004	-.012
7	-.062	-.074	-.006	-.049	.007	-.035	.005	-.022	-.000	-.022	.021	-.015	.014	-.024
8	.039	.097	.008	.046	-.006	.033	-.023	.020	-.006	.007	-.013	.011	-.009	.001
9	.023	-.129	.020	-.046	.025	-.020	.014	-.076	.003	-.007	.007	-.001	-.000	-.007
10	-.025	.016	.001	.003	.019	-.017	.038	.000	.010	-.033	.022	-.004	.013	.021

X =	.774		.960		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.674	.034	1.244	.036	.965	-.055
2	.001	.117	-.040	.054	-.105	.014
3	-.043	-.019	-.006	-.023	-.002	-.035
4	-.010	-.033	.004	-.015	.012	-.011
5	-.013	-.025	-.009	-.018	.006	-.025
6	.009	.005	.005	-.007	.001	-.013
7	.013	-.005	-.001	-.010	-.001	-.008
8	-.004	.007	-.003	.010	-.006	.004
9	-.006	-.006	-.011	-.012	-.005	-.006
10	.014	.012	.007	.070	.000	.029

N	CNREAL	CNIMAG
1	4.951	.072
2	.039	-.015
3	.017	.006
4	.001	-.039
5	-.032	-.017
6	.011	.009
7	.005	-.022
8	-.007	.016
9	.007	-.014
10	.013	.006

N	CMREAL	CMIMAG
1	1.064	.244
2	.025	-.019
3	.007	.010
4	-.001	-.005
5	-.008	.001
6	.003	.005
7	-.001	-.004
8	.000	.004
9	.003	-.004
10	.001	-.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.431	1.378	1.727	.950	-16.745	-.609	-3.604	.274	7.406	-7.998
2	.655	.460	.537	.452	.297	.052	.513	.356	-.116	.385
3	-.072	.054	-.116	.009	-.231	-.211	-.052	.046	-.077	-.461
4	-.208	.065	-.216	.187	-.161	.331	-.178	.010	-.305	-.190
5	.024	.079	-.000	.019	-.035	-.064	.012	.038	-.024	-.019
6	[illegible]	.055	-.045	.090	-.081	.070	[illegible]	.065	-.007	.049
7	[illegible]	.056	.057	-.008	-.013	.170	.014	.059	-.028	.015
8	[illegible]	[illegible]	.061	.038	-.009	-.046	.024	.000	-.013	.075
9	[illegible]	.023	.021	.028	.017	.054	.013	.010	.010	-.038
10	.039	-.051	.023	-.033	.042	-.063	.034	-.047	.039	-.016

*** STABILITY PARAMETER

* XI = -.240 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 124 ALPHA-MCL = 6.0 POP RUN.PT 25.07
RUN 25 ALPHA-PAR = .5 Q-COMP = .32198
POINT 5 SIGMA = 135. V-REF = 198.97
COMPUTED FREQUENCY = 19.12, K = .1510

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	27.058	8.27	11.600	13.15	8.124	11.35	5.541	13.58	4.263	9.34	3.641	7.36	3.149	358.41
2	1.452	333.02	.194	31.07	.069	15.53	.039	15.44	.051	254.64	.063	47.43	.047	223.61
3	.157	152.62	.145	35.82	.121	34.77	.040	41.77	.023	357.92	.004	277.78	.047	283.21
4	.090	221.95	.067	261.78	.073	272.05	.055	273.87	.029	322.30	.045	255.95	.039	287.81
5	.238	180.52	.071	185.41	.062	188.91	.032	201.31	.033	211.68	.038	228.02	.028	232.17
6	.138	57.23	.053	50.74	.032	36.20	.011	87.16	.013	25.30	.008	40.80	.013	287.89
7	.096	230.07	.049	263.75	.036	281.69	.023	283.08	.022	269.76	.025	324.55	.028	301.40
8	.105	67.98	.047	80.71	.034	100.93	.030	139.83	.009	128.10	.017	140.23	.009	170.60
9	.131	280.30	.050	293.83	.032	321.54	.015	337.12	.013	317.27	.007	353.26	.007	268.18
10	.030	146.72	.003	66.35	.026	318.49	.038	.39	.013	344.05	.022	349.90	.025	59.40

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.674	1.16	1.245	1.76	.967	356.75
2	.121	75.01	.067	126.39	.106	172.63
3	.047	203.51	.023	255.69	.035	266.93
4	.035	253.23	.015	284.31	.016	316.89
5	.028	241.53	.020	242.39	.026	282.96
6	.010	30.27	.009	309.93	.013	274.87
7	.013	338.59	.010	262.57	.008	264.51
8	.008	123.16	.010	106.13	.007	145.45
9	.078	224.41	.016	226.67	.008	233.29
10	.019	40.97	.030	84.14	.029	89.40

N	CN-MAG	PHIN
1	4.912	9.04
2	.042	337.63
3	.018	18.65
4	.039	272.04
5	.036	208.80
6	.014	36.95
7	.022	282.49
8	.017	112.03
9	.015	296.60
10	.015	24.53

N	CM-MAG	PHIM
1	1.091	12.92
2	.031	322.02
3	.012	54.08
4	.005	256.44
5	.008	170.10
6	.006	60.04
7	.004	249.60
8	.004	83.95
9	.005	309.15
10	.003	286.70

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.443	72.63	1.925	26.20	16.756	182.08	3.615	175.66	10.900	312.80
2	.800	35.05	.702	40.13	.303	11.87	.624	34.75	.402	106.71
3	.090	142.97	.117	175.69	.313	222.42	.070	133.15	.467	260.48
4	.217	162.72	.286	139.07	.368	115.92	.178	176.71	.354	210.55
5	.046	58.79	.019	91.18	.073	240.91	.040	172.27	.031	218.59
6	.055	83.15	.101	116.36	.107	138.99	.072	116.34	.049	98.11
7	.064	62.15	.058	351.79	.101	97.52	.061	75.27	.032	152.51
8	.044	27.61	.072	31.64	.046	258.83	.024	.32	.028	117.56
9	.023	89.52	.035	52.86	.057	72.65	.017	33.29	.039	284.14
10	.059	300.13	.040	305.40	.076	303.86	.058	305.45	.042	338.03

*** STABILITY PARAMETER

XI = -.2490

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 132 ALPHA-MCL = 6.0 PDP RUN.PT 27.04
RUN 27 ALPHA-PAR = .5 C-COMP = .3282
POINT 1 SIGMA = 180. V-REF = 230.92
COMPUTED FRECUENCY = 9.26, K = .0709

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

N	X = .012-UPPER CPREAL	CPIMAG	.062-UPPER CPREAL	CPIMAG	.148-UPPER CPREAL	CPIMAG	.261-UPPER CPREAL	CPIMAG	.392-UPPER CPREAL	CPIMAG	.530-UPPER CPREAL	CPIMAG	.661-UPPER CPREAL	CPIMAG
1	-19.860	1.295	-5.430	-.412	-2.970	-.662	-1.673	-.740	-1.175	-.870	-1.072	-.971	-.830	-.956
2	.208	1.456	-.609	-.492	-.558	-.474	-.532	-.470	-.582	-.478	-.606	-.542	-.602	-.527
3	.034	-.395	-.238	-.544	-.315	-.496	-.214	-.558	-.239	-.595	-.270	-.631	-.272	-.618
4	.013	.171	.159	-.039	.116	-.044	.086	-.071	.103	-.033	.113	-.070	.106	-.079
5	.135	-.215	-.075	.010	-.066	-.013	-.065	-.011	-.051	-.017	-.052	.010	-.059	-.002
6	.093	-.044	.403	.072	.393	.091	.430	.129	.424	.144	.417	.137	.402	.117
7	-.106	-.207	-.137	-.178	-.023	-.139	-.024	-.142	-.014	-.131	-.005	-.110	-.007	-.111
8	-.015	-.138	.014	-.143	.036	-.144	.038	-.176	.038	-.133	.025	-.173	.035	-.142
9	.001	-.174	.005	-.116	-.008	-.091	.008	-.087	-.002	-.089	.008	-.061	.007	-.065
10	.005	-.001	.032	.019	.034	.016	.014	.028	.004	.034	.002	.019	-.009	.017

N	X = .774-UPPER CPREAL	CPIMAG	.860-UPPER CPREAL	CPIMAG	.910-UPPER CPREAL	CPIMAG	.012-LOWER CPREAL	CPIMAG	.062-LOWER CPREAL	CPIMAG	.148-LOWER CPREAL	CPIMAG	.261-LOWER CPREAL	CPIMAG
1	-.377	-.893	.138	-.929	.396	-.850	12.276	-1.351	7.257	-.447	6.096	-.765	4.717	-.681
2	-.591	-.523	-.596	-.549	-.610	-.557	-.659	-.835	-.543	-.514	-.595	-.519	-.599	-.502
3	-.253	-.610	-.236	-.626	-.250	-.594	-.212	-.496	-.235	-.538	-.219	-.566	-.208	-.568
4	.075	-.070	.100	-.069	.067	-.071	.143	-.074	.123	-.103	.107	-.077	.101	-.070
5	-.058	-.010	-.063	-.005	-.062	-.010	-.078	.020	-.063	.005	-.041	.039	-.037	-.002
6	.395	.128	.394	.143	.387	.108	.439	.104	.437	.119	.424	.120	.392	.149
7	.034	-.109	-.007	-.101	.003	-.105	.057	-.172	.003	-.125	.003	-.103	.035	-.088
8	.032	-.132	.024	-.178	.010	-.140	.015	-.056	.022	-.131	.024	-.118	.035	-.110
9	.032	-.055	-.007	-.033	-.010	-.044	-.055	.042	-.023	-.020	-.022	-.040	-.014	-.042
10	-.005	.011	-.004	.071	.008	.017	-.033	.056	-.013	.023	-.015	.023	-.017	.011

N	X = .392-LOWER CPREAL	CPIMAG	.530-LOWER CPREAL	CPIMAG	.661-LOWER CPREAL	CPIMAG	.774-LOWER CPREAL	CPIMAG	.860-LOWER CPREAL	CPIMAG	.910-LOWER CPREAL	CPIMAG
1	3.324	-.579	3.381	-.662	2.671	-.610	1.786	-.518	1.147	-.880	1.458	-.310
2	-.506	-.464	-.656	-.592	-.590	-.551	-.540	-.418	-.531	-.636	-.752	-.607
3	-.200	-.537	-.229	-.670	-.210	-.589	-.223	-.639	-.219	-.596	-.209	-.607
4	.001	-.059	.103	-.066	.062	-.059	.096	-.034	.075	-.050	.064	-.026
5	-.048	-.007	-.067	-.007	-.064	-.017	-.065	-.075	-.062	.002	-.050	-.033
6	.378	.115	.464	.159	.430	.127	.430	.104	.369	.135	.384	.124
7	.001	-.087	-.002	-.107	-.007	-.092	-.046	-.007	-.013	-.097	.002	-.077
8	.004	-.122	.024	-.105	.021	-.137	.006	-.109	.033	-.132	.002	-.128
9	-.001	-.037	-.027	-.047	-.028	-.036	-.020	-.020	-.011	-.029	-.017	-.046
10	-.001	.011	-.014	.010	-.001	.009	-.027	-.004	-.001	.017	.004	.013

OF POOR QUALITY

OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 132 ALPHA-MCL = 6.0 PDP RUN.PT 27.04
RUN 27 ALPHA-BAR = .5 Q-COMP = .32836
POINT 1 SIGMA = 180. V-REF = 200.92
COMPUTED FREQUENCY = 9.36, K = .0709

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.932	176.27	5.446	184.34	3.043	192.57	1.830	203.85	1.463	216.52	1.447	222.17	1.266	229.05
2	1.494	78.82	.783	218.95	.732	220.34	.665	216.95	.753	219.40	.813	221.60	.800	221.20
3	.397	274.97	.594	246.34	.587	237.60	.597	249.04	.642	248.10	.686	246.82	.675	246.20
4	.171	85.70	.107	303.49	.124	339.37	.111	320.56	.133	320.26	.133	328.34	.132	323.33
5	.249	300.25	.076	172.73	.067	191.41	.066	189.68	.053	198.22	.053	169.34	.059	161.53
6	.103	334.90	.409	10.11	.404	13.01	.420	17.93	.443	18.73	.439	18.22	.418	16.25
7	.232	242.95	.182	258.17	.140	260.60	.144	260.42	.132	263.75	.110	267.58	.112	266.58
8	.138	268.02	.144	275.59	.149	284.02	.142	285.77	.138	286.07	.136	280.62	.147	283.69
9	.176	276.81	.116	272.93	.092	264.90	.087	275.32	.093	268.54	.061	277.46	.065	275.79
10	.085	359.32	.037	31.29	.038	24.35	.031	62.66	.034	83.12	.019	83.09	.019	117.83

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.967	247.04	.916	276.76	.937	294.99	12.351	353.72	7.270	356.47	6.144	352.84	4.766	351.79
2	.780	221.80	.810	222.68	.826	222.40	1.064	231.72	.747	223.40	.789	221.09	.781	219.95
3	.661	247.50	.669	249.36	.645	247.21	.539	246.90	.587	246.29	.607	248.87	.605	249.88
4	.118	323.80	.121	325.45	.097	313.29	.161	332.49	.161	320.02	.132	324.02	.123	325.14
5	.059	190.17	.063	184.46	.063	189.33	.080	165.67	.069	175.88	.042	166.99	.037	182.42
6	.405	18.42	.419	19.92	.402	15.63	.451	13.34	.453	15.26	.440	15.76	.419	20.77
7	.109	272.01	.101	269.92	.105	271.47	.082	288.44	.125	271.15	.103	271.45	.089	273.31
8	.140	279.14	.140	280.02	.141	274.02	.070	282.26	.132	279.40	.121	281.53	.116	287.42
9	.055	271.92	.034	257.40	.045	257.48	.069	142.97	.033	221.54	.046	241.30	.045	252.36
10	.012	111.92	.022	99.46	.019	63.29	.065	120.44	.033	129.58	.028	122.84	.021	146.18

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.374	350.11	3.445	348.92	2.739	347.12	1.860	343.84	1.446	322.49	1.490	348.01
2	.701	221.44	.877	221.56	.807	223.05	.683	217.76	.829	230.14	.966	218.90
3	.573	249.60	.708	251.13	.625	250.35	.677	250.76	.635	249.82	.642	250.99
4	.108	327.17	.122	327.28	.101	324.46	.102	340.46	.091	326.90	.069	337.51
5	.048	188.17	.061	186.76	.066	194.99	.074	208.50	.062	178.33	.060	213.81
6	.395	16.93	.490	18.90	.420	17.65	.443	13.62	.393	20.11	.404	17.92
7	.057	270.92	.107	268.96	.092	265.63	.107	244.85	.097	262.53	.077	271.13
8	.124	231.35	.157	276.85	.139	278.61	.129	272.55	.136	283.94	.128	270.73
9	.042	240.94	.054	239.75	.046	232.59	.028	224.93	.031	249.72	.049	250.02
10	.016	135.01	.018	145.29	.009	95.78	.023	190.72	.017	93.03	.014	74.22

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 172 ALPHA-MCL = 6.0 PTF RUN,PT 27.04
RUN 27 ALPHA-FAR = .5 Q-COMP = .32676
POINT 1 SIGMA = 180. V-REF = 200.92
COMPUTED FREQUENCY = 9.06, K = .0709

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.176	-2.646	12.687	-.035	9.266	-.103	6.391	.059	4.499	.291	4.457	.309	3.500	.356
2	-.947	-2.292	.066	-.022	-.037	-.048	-.067	-.102	.055	.014	-.050	-.040	.012	-.024
3	-.246	-.101	.002	.006	.096	-.070	.036	-.010	.043	.059	.041	-.039	.062	.029
4	.130	-.245	.064	-.014	-.010	-.034	.015	.001	-.009	.024	-.010	.004	-.024	.020
5	-.233	.235	.007	-.075	.025	.023	.028	.009	.003	.010	-.008	-.017	-.005	-.016
6	.346	.148	.034	.047	.030	.029	-.008	.019	-.045	-.029	.047	.022	-.001	.010
7	.163	.035	.040	.053	.025	.035	.029	.053	.016	.044	.007	.003	-.000	.020
8	.020	.069	.008	.112	-.012	.026	-.034	.026	-.014	.011	-.001	-.022	-.014	.005
9	-.076	.016	-.029	.076	-.014	.051	-.022	.044	-.013	.057	-.035	.014	-.034	.028
10	-.118	.057	-.051	.004	-.049	.039	-.032	-.016	-.015	-.027	-.017	-.009	.008	-.008

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.164	.372	1.039	.079	1.062	.547
2	.041	.102	.065	-.067	-.142	-.049
3	.070	-.029	.017	.070	.040	-.013
4	.001	.036	-.024	.119	-.003	.044
5	-.007	-.025	.031	.007	.012	-.027
6	.046	-.024	-.025	-.078	-.002	.016
7	-.049	.012	-.017	.005	-.001	.028
8	-.016	.007	.008	.006	-.008	.017
9	-.072	.036	-.003	.004	-.007	-.003
10	-.018	-.016	.003	-.005	-.005	-.004

N	CNREAL	CNIMAG
1	5.594	.126
2	-.340	-.094
3	.029	-.007
4	.002	.003
5	-.001	.007
6	.018	.012
7	.011	.028
8	-.006	.010
9	-.023	.045
10	-.021	-.037

N	CMREAL	CMIMAG
1	1.235	-.079
2	-.011	-.038
3	-.004	-.003
4	.005	-.008
5	-.001	.006
6	.005	.005
7	.007	.004
8	.001	.002
9	-.002	.008
10	-.006	.001

*** STABILITY PARAMETER

```
*                  *
*  XI =     .0787  *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
AP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	4.672	-.919	6.385	-1.180	-13.945	-.034	-.249	-.934	11.968	-.570
2	-.769	-.653	-.878	-.462	-1.257	-1.500	-.658	-.648	-.878	-.881
3	-.336	-.757	-.255	-.626	-.778	-.549	-.291	-.694	.138	-.573
4	.140	-.109	.146	-.072	-.047	.215	.103	-.125	.197	-.079
5	-.038	.074	.077	.076	-.227	-.012	-.073	.008	-.162	.090
6	.016	.101	.076	.047	.056	.233	.486	.167	.618	.273
7	.042	-.167	.065	-.292	-.077	-.370	.013	-.182	.004	-.255
8	.03	-.157	.036	-.037	.131	-.266	.042	-.173	-.047	-.270
9	.011	-.113	-.0	-.188	-.010	-.197	.016	-.118	-.033	-.073
10	-.031	.076	-.027	.052	.080	-.073	.372	.016	.005	.127

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 132 ALPHA-MCL = 6.0 POP RUN,PT 27.04
RUN 27 ALPHA-BAR = .5 G-COMP = .32836
POINT 1 SIGMA = 180. V-REF = 209.92
COMPUTED FREQUENCY = 9.06, K = .0739

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	32.245	355.29	12.687	359.84	9.067	359.35	6.391	.53	4.509	3.70	4.464	3.97	3.517	5.64
2	2.430	247.55	.069	341.72	.058	230.59	.122	236.57	.057	13.64	.064	218.54	.027	297.34
3	.266	202.23	.006	71.95	.119	323.75	.011	299.91	.071	55.94	.057	316.95	.069	25.01
4	.277	297.93	.065	347.80	.035	253.62	.015	2.80	.026	110.04	.011	160.28	.031	139.66
5	.311	130.86	.008	325.20	.034	41.79	.029	19.05	.010	73.67	.019	244.03	.016	251.37
6	.376	23.16	.059	54.11	.042	43.37	.021	112.39	.054	211.92	.052	24.66	.010	97.01
7	.167	12.00	.066	53.17	.044	54.26	.061	61.36	.046	70.19	.004	48.65	.020	90.95
8	.072	74.27	.014	57.94	.029	114.60	.026	98.53	.013	141.51	.022	267.75	.015	159.00
9	.229	139.43	.100	106.72	.053	105.10	.049	116.00	.055	109.16	.038	158.45	.045	140.64
10	.131	154.17	.052	175.62	.050	171.28	.036	207.52	.027	236.49	.019	208.81	.011	315.10

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.195	9.76	1.039	1.61	1.191	26.96
2	.110	67.85	.108	306.74	.150	199.25
3	.041	316.20	.034	63.98	.042	342.11
4	.036	88.30	.031	141.11	.045	93.83
5	.026	254.08	.007	77.74	.026	298.22
6	.051	332.41	.026	197.07	.016	95.41
7	.051	166.42	.013	159.70	.028	92.42
8	.019	150.88	.010	33.80	.015	124.22
9	.042	121.17	.005	132.05	.008	201.44
10	.024	220.63	.005	299.59	.006	217.37

N	CN-MAG	PHIN
1	5.595	1.29
2	.102	247.27
3	.030	346.23
4	.004	54.21
5	.003	102.77
6	.022	33.61
7	.030	68.97
8	.012	121.15
9	.046	119.86
10	.023	197.41

N	CM-MAG	PHIM
1	1.238	356.36
2	.040	253.32
3	.005	219.05
4	.010	299.97
5	.007	101.02
6	.007	40.47
7	.008	26.83
8	.003	73.83
9	.009	100.95
10	.006	167.40

*** STABILITY PARAMETER

* XI = .0797 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	4.762	348.87	6.493	349.53	13.940	130.14	.967	255.04	11.982	357.27
2	1.009	220.35	1.068	218.30	1.957	230.03	.923	224.60	1.243	225.09
3	.816	246.01	.676	247.86	.952	215.18	.753	247.25	.589	283.57
4	.177	322.09	.309	298.26	.220	101.17	.162	309.63	.213	338.11
5	.051	138.71	.108	44.35	.220	183.04	.074	173.45	.185	150.88
6	.636	13.70	.707	3.26	.592	20.03	.514	18.98	.650	18.16
7	.172	284.01	.299	282.47	.381	255.90	.182	273.15	.255	270.80
8	.177	297.81	.255	291.99	.285	290.77	.178	283.67	.204	258.84
9	.103	275.96	.188	267.60	.198	264.48	.119	277.53	.047	224.70
10	.047	130.45	.086	108.21	.080	357.62	.027	34.89	.127	87.80

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 134 ALPHA-MCL = 6.0 PDP RUN.PT 27.06
RUN 27 ALPHA-BAR = .5 C-COMP = .32760
POINT 3 SIGMA = 180. V-REF = 200.69
COMPUTED FREQUENCY = 15.44, K = .1208

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

	X = .012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.278	1.049	-7.592	.016	-5.346	-.249	-4.136	-.447	-4.036	-.568	-4.147	-.635	-3.974	-.639
2	.515	1.039	.637	-.561	.669	-.527	.679	-.474	.733	-.566	.794	-.627	.759	-.633
3	.503	-.203	.098	-.028	.058	-.004	.122	-.023	.142	-.019	.147	-.029	.148	-.021
4	.075	.084	.167	-.072	.234	.022	.199	.074	.223	-.002	.244	-.025	.224	-.008
5	.119	-.079	-.175	.045	-.099	.054	-.102	.078	-.110	.032	-.081	.026	-.072	.026
6	-.058	-.133	.062	.014	.080	.027	.059	.017	.066	.019	.058	.026	.059	.038
7	-.011	.017	.055	.016	.071	.029	.063	.030	.060	.041	.055	.046	.055	.051
8	-.003	.009	-.027	-.026	-.028	-.022	-.014	-.028	-.016	-.034	-.014	-.042	-.014	-.027
9	.035	.010	.044	.076	.037	.013	.038	-.072	.052	.011	.039	.000	.030	-.003
10	.029	.009	.034	-.019	.031	-.024	.038	-.028	.050	-.023	.050	-.023	.043	-.022

	X = .774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.456	-.644	-3.018	-.571	-2.758	-.558	8.963	-.782	4.369	.299	3.059	-.174	1.666	-.096
2	.736	-.566	.775	-.592	.739	-.599	.569	-1.009	.740	-.724	.688	-.633	.721	-.590
3	.178	-.023	.137	-.021	.121	-.026	.136	-.072	.131	-.047	.124	-.058	.132	-.044
4	.222	-.011	.245	-.009	.231	-.021	.233	-.068	.230	-.051	.219	-.036	.220	-.008
5	-.077	.021	-.085	.075	-.091	.027	-.117	.049	-.120	.044	-.120	.043	-.112	.017
6	.044	.031	.044	.024	.044	.025	.067	.046	.054	.020	.039	.016	.032	.017
7	.048	.047	.045	.074	.055	.042	.063	.071	.066	.036	.063	.037	.050	.045
8	-.019	-.030	-.028	-.027	-.015	-.022	.002	-.037	.035	-.027	.003	-.030	.014	-.039
9	.040	.004	.037	.003	.033	-.011	.022	-.071	.038	-.023	.049	-.011	.054	-.001
10	.040	-.024	.045	-.072	.035	-.021	.008	-.079	.020	-.024	.024	-.018	.040	-.018

	X = .392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.578	-.090	-.314	-.140	-.345	-.224	-1.386	-.111	-2.093	-.291	-1.341	-.156
2	.653	-.539	.325	-.545	.721	-.588	.886	-.442	.719	-.609	.667	-.517
3	.115	-.046	.141	-.047	.123	-.043	.118	-.042	.097	-.020	.111	-.018
4	.278	-.017	.264	-.071	.218	-.009	.270	-.078	.241	-.034	.222	-.004
5	-.100	.037	-.123	.029	-.094	.017	-.116	.017	-.093	.026	-.082	.029
6	.074	.011	.035	.017	.023	.008	.036	.072	.042	.032	.025	.024
7	[illegible]	.032	.061	.074	.048	.036	.044	.077	.047	.038	.050	.024
8	-.024	-.018	-.004	-.079	-.003	-.026	-.016	-.012	-.031	-.027	-.069	-.020
9	[illegible]	-.017	.064	-.005	.041	-.013	.050	-.073	.033	-.033	.038	-.023
10	[illegible]	-.018	.025	-.021	.028	-.017	.031	-.076	.032	-.025	.030	-.023

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 134 ALPHA-MCL = 6.0 PDP RUN.PT 27.06
RUN 27 ALPHA-BAR = .5 C-COMP = .32760
POINT 3 SIGMA = 180. V-REF = 200.69
COMPUTED FREQUENCY = 15.44, K = .1208

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.256	176.90	7.503	179.90	5.352	182.67	4.160	186.16	4.076	188.00	4.191	188.30	4.025	182.13
2	1.913	71.22	.849	318.65	.851	321.78	.828	325.09	.926	322.35	1.312	321.[illegible]	.988	320.18
3	.542	338.06	.102	344.26	.058	356.50	.124	349.54	.143	352.28	.150	348.79	.149	351.89
4	.091	67.6[illegible]	.167	359.27	.205	6.23	.199	1.08	.228	359.40	.246	354.13	.225	358.01
5	.142	326.77	.114	157.05	.113	151.37	.139	159.39	.115	163.80	.085	161.87	.084	161.98
6	.145	246.55	.063	12.79	.083	16.18	.061	15.98	.063	16.26	.064	24.27	.070	32.50
7	.022	119.54	.057	15.99	.077	22.07	.070	25.64	.073	34.33	.072	39.89	.075	42.90
8	.024	159.35	.038	224.71	.035	218.91	.031	243.86	.037	245.25	.044	251.83	.030	243.17
9	.037	16.30	.045	8.13	.037	3.90	.039	357.00	.053	12.46	.039	.35	.030	354.18
10	.031	17.40	.039	331.11	.039	321.82	.047	323.31	.055	335.03	.055	334.83	.048	332.35

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.516	190.55	3.092	192.54	2.814	191.43	8.998	355.01	4.379	3.92	3.055	356.73	1.666	356.69
2	.943	321.57	.966	322.90	.951	320.98	1.159	299.40	1.035	315.65	.935	317.39	.931	320.69
3	.130	349.81	.132	330.94	.124	348.01	.128	326.10	.139	340.31	.137	334.86	.139	341.34
4	.223	357.13	.245	357.87	.232	354.87	.243	343.64	.236	347.57	.222	350.61	.220	357.86
5	.090	166.40	.089	163.66	.095	163.68	.127	157.22	.123	159.81	.127	160.18	.113	171.48
6	.054	35.54	.051	28.81	.050	29.65	.081	34.30	.058	20.36	.043	22.13	.037	27.64
7	.067	44.14	.057	37.24	.069	37.56	.070	26.17	.075	29.00	.073	30.38	.067	41.90
8	.035	238.01	.039	223.67	.027	236.18	.037	273.80	.028	281.18	.030	276.66	.041	289.80
9	.040	6.15	.033	5.05	.035	342.41	.037	305.06	.044	328.39	.050	347.32	.054	359.31
10	.046	329.32	.050	334.64	.041	329.69	.030	286.48	.031	310.30	.030	323.59	.044	336.34

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.535	351.13	.141	264.23	.411	213.05	1.391	184.60	2.021	188.27	1.350	186.63
2	.850	320.70	1.050	322.08	.931	320.81	1.004	331.98	.942	319.78	.844	322.25
3	.123	338.25	.148	341.43	.130	340.70	.126	340.69	.099	348.56	.112	350.88
4	.208	355.23	.265	355.40	.218	357.58	.272	351.99	.243	352.02	.222	359.07
5	.174	163.37	.126	166.64	.096	169.99	.118	171.70	.092	163.39	.087	160.77
6	.036	17.64	.039	26.11	.024	18.24	.042	32.19	.052	37.10	.035	43.66
7	.059	33.24	.070	29.11	.061	36.93	.052	31.43	.060	38.62	.056	25.85
8	.019	256.21	.029	262.66	.027	262.74	.025	231.12	.027	268.61	.022	245.74
9	.040	345.28	.064	355.88	.043	342.72	.050	355.52	.038	356.14	.039	355.15
10	.029	322.15	.036	323.24	.033	328.64	.040	320.26	.041	322.80	.038	322.42

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 134 ALPHA-MCL = 6.0 PDP RUN.PT 27.06
RUN 27 ALPHA-PAR = .5 C-COMP = .32760
POINT 3 SIGMA = 180. V-REF = 200.69
COMPUTED FREQUENCY = 15.45, K = .1208

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	28.192	-1.823	11.269	.296	8.396	.075	5.831	.350	4.614	.477	4.133	.464	3.629	.411
2	-.046	-2.918	.103	-.163	.019	-.106	.041	-.116	-.075	.027	.035	-.018	-.038	.045
3	-.396	.131	.033	-.019	.067	-.055	.009	-.022	-.023	-.026	-.007	-.018	-.024	-.022
4	.198	-.153	.064	-.049	.015	-.059	.021	-.012	-.021	-.015	.020	.004	-.006	-.001
5	-.276	.127	-.015	-.000	-.021	-.011	-.010	-.072	.010	-.002	-.042	.003	-.015	-.009
6	.125	.178	-.007	.006	-.040	-.007	-.026	.000	-.031	-.008	-.024	-.009	-.036	-.030
7	.073	.012	.011	.021	-.008	.008	-.013	.014	-.011	-.009	.006	-.012	-.006	-.015
8	.025	-.045	.032	-.001	.031	-.008	.028	-.011	.011	.016	.010	.013	.010	.001
9	-.014	-.041	-.007	-.029	.012	-.014	.016	.001	-.013	-.022	.025	-.005	.011	-.010
10	-.021	-.039	-.014	-.005	-.036	.006	.003	.010	-.027	.005	-.021	.002	-.015	.005

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.070	.532	1.018	.380	1.417	.402
2	.143	.114	-.051	-.076	-.072	.082
3	-.010	-.018	-.033	.001	-.010	.008
4	.048	-.027	-.004	-.025	-.009	.017
5	-.079	-.004	-.003	.001	.009	.002
6	-.009	-.009	-.003	.007	-.019	-.001
7	-.024	-.020	.002	.003	-.004	-.018
8	[illegible]	.011	.028	.000	.006	.002
9	[illegible]	-.007	.005	-.005	.005	.007
10	-.009	-.052	-.017	-.003	-.005	-.003

N	CNREAL	CNIMAG
1	5.285	.304
2	.008	-.099
3	-.013	-.015
4	.019	-.020
5	-.020	-.001
6	-.019	-.002
7	-.002	-.009
8	.016	.002
9	.007	-.010
10	-.012	.002

N	CMREAL	CMIMAG
1	1.099	-.046
2	.003	-.061
3	-.001	-.001
4	.005	-.006
5	-.004	.001
6	.001	.003
7	.001	.003
8	.002	-.002
9	-.001	-.002
10	-.000	.000

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W5		W10	
GAP FRACTION	-.125		.030		.125		.530		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.371	-.403	2.628	-.513	-16.907	.350	-3.682	-.581	10.210	-.712
2	.947	-.781	.757	-.924	.599	-.859	.878	-.699	.927	-1.131
3	.186	-.053	.229	-.064	-.221	-.075	.191	-.024	.542	.011
4	.270	.020	.259	.049	.371	.230	.244	.001	.337	.006
5	-.157	.063	-.084	.087	-.188	.116	-.146	.052	-.314	-.070
6	.057	-.029	.044	-.098	.039	.091	.062	.054	-.051	.071
7	.036	.052	.079	.038	.039	.079	.093	.045	.063	.043
8	-.010	-.079	.016	.014	-.067	-.042	-.027	-.067	.022	-.091
9	.039	-.016	.019	.137	.257	.002	.053	-.002	.031	-.096
10	.023	-.033	-.020	.020	.068	.007	.045	-.025	.018	-.094

*** STABILITY PARAMETER

*** XI = .0460 ***

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 134 ALPHA-MCL = 6.0 PDP RUN.PT 27.06
RUN 27 ALPHA-BAR = .5 G-COMP = .32760
POINT 3 SIGMA = 180. V-REF = 200.69
COMPUTED FREQUENCY = 15.44, K = .1208

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	28.251	356.30	11.872	1.38	8.397	.51	5.812	3.46	4.639	[illegible]	4.159	6.41	3.653	6.51
2	2.818	269.06	.197	302.29	.108	280.18	.123	289.65	.081	160.17	.039	332.83	.059	130.23
3	.417	161.71	.038	329.71	.086	320.55	.024	292.98	.033	223.71	.019	249.53	.033	222.12
4	.250	322.46	.080	322.60	.060	284.23	.024	330.31	.025	216.53	.021	10.82	.006	193.16
5	.268	151.71	.015	181.69	.023	207.76	.024	245.40	.010	348.17	.042	176.41	.017	211.88
6	.218	55.06	.010	138.95	.041	189.99	.026	179.81	.033	194.73	.025	201.45	.047	219.93
7	.074	8.92	.023	62.40	.012	136.31	.020	132.84	.014	218.94	.013	295.19	.016	246.08
8	.052	299.05	.032	358.26	.032	346.36	.030	339.17	.019	54.75	.016	52.14	.010	4.17
9	.043	251.59	.030	256.95	.018	311.23	.016	4.91	.025	239.26	.025	349.05	.014	317.79
10	.043	240.93	.015	197.51	.009	135.88	.011	75.66	.023	168.58	.021	174.54	.016	159.94

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.137	14.42	1.087	20.50	1.473	15.83
2	.187	37.70	.057	206.91	.109	131.17
3	.021	242.18	.033	177.95	.013	141.76
4	.055	330.58	.025	260.06	.019	117.93
5	.030	187.92	.003	156.38	.009	11.81
6	.012	227.30	.008	110.58	.019	183.02
7	.020	258.26	.004	58.75	.018	256.23
8	.011	73.83	.028	.50	.006	20.27
9	.012	323.68	.007	312.26	.009	55.37
10	.009	194.00	.013	193.45	.006	206.98

N	CN-MAG	PHIN
1	5.294	3.30
2	.099	274.83
3	.020	229.06
4	.026	311.91
5	.020	183.28
6	.019	184.64
7	.004	245.38
8	.016	6.16
9	.012	305.66
10	.013	172.97

N	CM-MAG	PHIM
1	1.100	357.61
2	.061	273.24
3	.001	223.43
4	.008	309.75
5	.004	165.32
6	.003	76.48
7	.003	72.24
8	.003	327.83
9	.002	254.10
10	.000	178.31

*** STABILITY PARAMETER

* XI = .0460 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.960	335.16	2.677	348.95	16.911	178.81	3.728	188.97	10.235	356.01
2	1.227	325.50	1.139	313.68	1.047	304.89	1.123	321.48	1.462	309.32
3	.193	344.21	.244	339.79	.233	198.84	.193	353.00	.542	1.15
4	.271	4.27	.264	10.79	.437	31.81	.244	.15	.338	1.07
5	.169	158.19	.120	134.08	.221	148.24	.155	161.25	.322	192.58
6	.087	353.89	.108	294.35	.099	66.60	.082	43.88	.087	125.72
7	.100	31.14	.087	25.59	.089	5.98	.101	27.02	.076	34.42
8	.009	267.63	.021	40.85	.076	213.39	.066	245.94	.093	283.88
9	.042	338.21	.042	62.94	.057	1.68	.053	357.33	.101	288.15
10	.043	310.43	.029	135.40	.069	5.72	.051	331.15	.047	292.85

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 136 ALPHA-MCL = 6.0 PDP RUN.PT 27.08
RUN 27 ALPHA-RAP = .5 Q-COMP = .32716
POINT 5 SIGMA = 180. V-REF = 230.55
COMPUTED FREQUENCY = 19.06, K = .1493

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.497	1.908	-7.740	.663	-5.549	.294	-4.392	.047	-4.301	-.072	-4.407	-.146	-4.179	-.139
2	.317	1.683	.329	-.112	.086	-.066	.122	-.027	.139	-.078	.157	-.111	.154	-.099
3	.366	-.275	.334	-.021	-.018	.003	.034	-.035	.023	-.044	-.005	-.057	.028	-.053
4	-.035	.081	-.047	-.010	-.012	.030	-.053	.002	-.063	-.001	-.058	-.006	-.047	-.002
5	.239	-.037	.077	.057	.051	.056	.029	.065	-.043	.062	.028	.058	.046	.044
6	-.026	-.018	-.019	.053	-.028	.036	-.033	.051	-.034	.045	-.034	.037	-.024	.045
7	.005	-.027	-.000	-.016	-.004	-.009	-.013	.002	-.020	-.010	-.015	.011	-.008	.011
8	.017	-.039	.020	-.013	.024	-.005	.029	.002	.042	.014	.035	.008	.022	.006
9	-.008	-.008	-.017	-.005	-.022	-.007	-.018	-.009	-.019	-.008	-.019	-.010	-.022	-.005
10	.006	-.021	.003	-.017	.011	-.004	.005	-.016	.001	-.024	.006	-.023	-.001	-.025

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-3.653	-.163	-3.226	-.170	-2.943	-.019	8.805	-.408	4.335	.948	2.888	.424	1.472	.516
2	.153	-.151	.152	-.034	.154	-.105	.058	-.540	.205	-.238	.150	-.131	.149	-.095
3	.016	-.056	.026	-.361	.043	-.076	-.012	-.067	-.005	-.020	.003	-.028	.011	-.039
4	-.046	.001	-.351	.003	-.045	.004	-.023	.046	-.017	.025	-.034	.018	-.036	.010
5	.042	.032	.031	.038	.038	.040	.047	.056	-.005	.040	.010	.029	.018	.030
6	-.018	.049	-.023	.054	-.017	.049	.024	.077	-.023	.066	-.025	.065	-.037	.057
7	-.021	.009	-.018	.018	-.013	.017	-.011	.005	-.019	-.007	-.026	-.018	-.013	-.023
8	.019	.011	.019	.015	.017	.009	.005	.034	.003	.011	.004	.009	.005	.019
9	-.024	-.004	-.016	-.004	-.025	-.002	-.026	.002	-.027	.002	-.022	.001	-.021	.001
10	-.024	-.028	-.005	-.034	-.005	-.026	-.000	-.013	.002	-.006	.002	-.012	.013	-.029

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.410	.482	-.253	.574	-.547	.387	-1.611	.628	-2.293	.367	-1.578	.485
2	.175	-.090	.174	-.021	.120	-.084	.003	.018	.133	-.153	.061	-.027
3	.006	-.029	.011	-.057	.022	-.048	.022	-.056	.022	-.053	.031	-.072
4	-.047	.016	-.059	.028	-.059	.026	-.050	.027	-.053	.036	-.051	.024
5	.005	.022	.040	.073	.039	.028	.036	.017	.059	.044	.055	.022
6	-.010	.053	-.029	.061	-.016	.049	-.018	.061	-.023	.059	-.017	.048
7	-.019	-.006	-.035	-.022	-.029	-.003	-.036	-.011	-.033	.009	-.031	.074
8	.010	.004	.014	.012	.009	.007	.017	.012	.019	.008	.008	-.001
9	-.010	.002	-.028	-.001	-.028	-.002	-.028	-.003	-.025	-.001	-.032	-.001
10	[illegible]	-.016	-.004	-.023	-.001	-.027	-.007	-.017	-.001	-.027	-.008	-.029

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 136 ALPHA-MCL = 6.0 PBP RUN.PT 27.08
RUN 27 ALPHA-BAR = .5 Q-COMP = .32716
POINT 5 SIGMA = 180. V-REF = 200.55
COMPUTED FREQUENCY = 19.06, K = .1493

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.580	174.41	7.769	175.10	5.557	176.97	4.392	179.39	4.301	180.96	4.405	181.89	4.181	181.90
2	1.719	79.38	.115	284.67	.122	314.95	.125	347.38	.163	330.66	.192	324.85	.183	327.16
3	.458	323.10	.040	327.88	.018	171.04	.048	314.14	.053	297.71	.057	265.05	.060	297.61
4	.098	113.33	.048	192.52	.032	111.90	.053	177.70	.063	180.63	.058	185.47	.047	181.98
5	.242	351.09	.090	39.55	.075	47.82	.071	65.51	.078	52.13	.064	64.45	.064	43.35
6	.032	213.81	.056	108.90	.045	128.08	.061	123.09	.057	127.11	.050	132.49	.051	117.52
7	.037	313.00	.016	269.28	.010	244.36	.013	170.71	.023	207.17	.019	144.15	.014	126.59
8	.043	293.77	.024	327.93	.025	349.34	.029	4.12	.044	17.94	.036	13.45	.022	14.68
9	.011	223.70	.018	197.24	.023	198.46	.020	205.26	.020	204.07	.021	208.18	.023	192.96
10	.022	285.93	.017	279.89	.012	340.70	.017	288.98	.024	272.87	.024	285.44	.025	267.41

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	3.656	182.55	3.230	183.01	2.943	180.37	8.814	357.35	4.438	12.33	2.919	8.34	1.560	19.31
2	.184	326.59	.173	331.05	.186	325.86	.543	276.13	.314	310.76	.199	318.75	.176	327.44
3	.062	295.18	.066	293.53	.038	299.70	.068	259.74	.023	255.73	.029	275.81	.041	286.23
4	.046	178.33	.051	176.53	.045	175.23	.051	116.79	.033	124.47	.038	151.72	.037	163.92
5	.053	37.26	.049	50.69	.055	46.25	.074	130.00	.040	97.22	.030	71.12	.035	58.51
6	.052	110.20	.058	113.57	.052	109.03	.081	107.55	.070	108.93	.070	111.05	.068	122.72
7	.022	159.56	.026	135.47	.022	127.93	.012	157.89	.021	200.17	.032	215.04	.026	239.65
8	.022	30.36	.024	39.09	.019	26.93	.034	82.33	.013	55.76	.010	63.11	.020	75.43
9	.025	189.02	.017	193.33	.025	184.08	.026	176.58	.029	175.86	.023	176.63	.021	176.24
10	.028	260.95	.034	262.03	.026	260.01	.013	269.26	.006	290.92	.012	279.84	.024	302.86

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.627	50.29	.628	113.81	.670	144.70	1.729	158.71	2.327	171.04	1.651	162.91
2	.162	326.88	.192	335.32	.147	324.85	.304	3.45	.203	311.08	.066	335.77
3	.030	282.17	.059	281.10	.053	294.92	.060	291.77	.058	292.05	.078	293.06
4	.049	160.57	.065	154.95	.064	156.16	.057	151.94	.053	173.27	.057	154.72
5	.033	41.36	.046	30.42	.048	36.10	.040	25.00	.074	36.66	.059	21.92
6	.057	111.21	.067	114.73	.051	108.04	.064	106.12	.064	111.19	.049	104.08
7	.020	197.92	.041	212.07	.029	185.59	.037	196.96	.031	163.93	.031	172.81
8	.011	20.21	.018	39.69	.011	38.24	.020	34.83	.021	22.16	.008	349.08
9	.020	175.51	.028	181.70	.028	183.60	.028	166.38	.025	181.80	.032	181.81
10	.016	264.28	.023	260.07	.027	267.76	.018	248.49	.027	268.46	.030	254.96

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 136 ALPHA-MCL = 6.0 PDP RUN.PT 27.08
RUN 27 ALPHA-BAR = .5 Q-COMP = .32716
POINT 5 SIGMA = 180. V-REF = 200.55
COMPUTED FREQUENCY = 19.06, K = .1493

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	28.292	-2.316	12.076	.285	8.437	.129	5.864	.469	4.701	.554	4.150	.720	3.632	.526
2	-.259	-2.229	.175	-.126	.064	-.045	.027	-.068	-.004	-.012	.017	.030	-.034	.015
3	-.373	.208	-.039	.002	.020	-.031	-.022	-.005	-.017	.015	.016	-.000	-.006	.005
4	.012	-.035	.030	.035	-.022	-.012	.017	.008	.016	.017	-.001	.033	-.012	.027
5	-.256	.794	-.075	-.018	-.041	-.027	-.011	-.034	-.023	-.040	.012	-.035	-.008	-.015
6	.002	.095	-.005	.014	.003	.030	-.004	.006	.014	.008	.005	.024	.008	.004
7	-.076	.032	-.019	.009	-.022	-.010	-.000	-.025	.001	.004	-.020	-.033	-.021	-.014
8	-.013	.073	-.017	.024	-.020	.013	-.024	.017	-.032	-.010	-.024	.003	-.013	.001
9	-.019	.009	-.012	.007	-.001	.009	-.003	.010	-.001	.010	-.009	.009	-.005	.003
10	-.006	.006	-.001	.011	-.009	-.008	.007	-.004	-.003	.008	-.010	.000	.000	-.002

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.042	.790	.928	.532	1.365	.504
2	.150	.119	-.019	-.369	-.094	.077
3	-.004	-.000	-.005	.007	-.013	.004
4	-.004	.025	-.002	.003	-.006	.021
5	-.006	-.015	.028	.006	.017	-.017
6	.000	.012	[illegible]	.006	.005	-.001
7	-.015	-.018	-.012	-.009	-.018	-.013
8	[illegible]	[illegible]	.001	-.007	-.009	-.010
9	-.003	.001	-.010	.003	-.007	.001
10	-.002	.010	.004	.006	-.003	-.003

N	CNREAL	CNIMAG
1	5.316	.412
2	.017	-.070
3	-.018	.006
4	.002	.016
5	-.020	-.020
6	.004	.014
7	-.014	-.012
8	-.016	.005
9	-.005	.006
10	-.002	.002

N	CMREAL	CMIMAG
1	1.116	-.064
2	.005	-.047
3	-.006	.002
4	.002	-.002
5	-.010	-.000
6	-.000	.003
7	-.000	.001
8	-.002	.003
9	-.000	.001
10	-.000	-.000

*** STABILITY PARAMETER

* XI = .0639 *

****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.530		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.534	.377	1.733	.366	-17.022	1.433	-3.853	.042	10.141	.077
2	.106	-.184	.156	.013	-.017	-.074	.149	-.150	.093	-.477
3	.073	-.040	.216	-.167	-.185	.036	.043	-.017	.156	.039
4	-.011	-.001	.000	-.028	.059	.318	-.065	.011	-.077	.291
5	-.013	.071	.028	.088	.068	.054	.038	.073	-.118	.187
6	-.045	.123	.001	.093	-.027	.060	-.043	.064	-.108	.134
7	-.020	[illegible]	-.012	-.024	.029	-.047	-.005	.008	[illegible]	-.072
8	.026	-.002	-.005	-.050	.029	-.036	.039	-.014	.055	-.022
9	-.024	.011	-.006	-.004	-.032	-.034	-.027	-.005	-.026	-.008
10	.010	-.007	.019	-.015	.021	-.037	.010	-.025	.028	.003

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 136 ALPHA-MCL = 6.0 PDP RUN.PT 27.08
RUN 27 ALPHA-BAR = .5 Q-COMP = .32716
POINT 5 SIGMA = 180. V-REF = 200.55
COMPUTED FREQUENCY = 19.06, K = .1493

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	28.386	355.32	12.079	1.35	8.438	.88	5.882	4.57	4.739	6.73	4.212	9.85	3.670	8.28
2	2.244	263.38	.216	324.36	.078	324.71	.073	291.77	.012	249.36	.034	60.82	.037	156.30
3	.432	151.15	.039	177.63	.037	303.24	.023	192.19	.022	138.92	.016	358.65	.008	136.20
4	.037	288.49	.046	49.14	.025	208.67	.019	25.67	.024	46.36	.033	91.46	.030	113.56
5	.301	161.84	.077	193.20	.049	213.73	.036	252.37	.046	239.83	.037	289.06	.017	242.96
6	.095	88.94	.015	109.34	.030	84.75	.007	119.66	.016	28.75	.025	77.45	.008	25.27
7	.048	139.02	.021	154.41	.024	203.77	.025	269.86	.004	77.98	.039	239.24	.025	213.42
8	.074	99.88	.027	118.23	.024	146.09	.029	143.69	.033	197.20	.021	171.13	.013	174.53
9	.021	153.69	.014	148.02	.009	94.32	.010	106.23	.010	98.39	.013	134.17	.006	146.83
10	.010	128.54	.011	93.65	.012	222.78	.008	331.00	.009	108.54	.010	178.83	.002	271.38

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.189	21.17	1.069	29.85	1.455	20.28
2	.192	38.51	.071	254.94	.121	140.46
3	.004	181.34	.009	123.20	.013	162.76
4	.026	98.59	.004	123.67	.021	107.21
5	.016	248.38	.028	11.95	.024	314.35
6	.012	88.32	.006	86.01	.005	346.65
7	.024	230.99	.015	218.62	.022	216.91
8	.002	168.97	.007	276.31	.014	227.69
9	.004	167.80	.010	162.96	.007	174.18
10	.011	102.84	.008	57.93	.004	221.88

N	CN-MAG	PHIN
1	5.332	4.43
2	.072	283.66
3	.019	160.82
4	.016	83.10
5	.028	226.00
6	.014	75.43
7	.018	220.71
8	.017	161.41
9	.008	130.93
10	.003	144.74

N	CM-MAG	PHIM
1	1.118	356.72
2	.047	275.97
3	.007	164.47
4	.002	316.10
5	.010	181.41
6	.003	96.72
7	.001	93.95
8	.004	118.39
9	.001	94.34
10	.000	222.08

*** STABILITY PARAMETER .

* XI = .0639 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.654	35.21	1.771	11.92	17.083	175.39	3.854	173.37	10.141	.43
2	.213	299.94	.156	4.91	.076	257.00	.211	314.67	.466	281.07
3	.083	331.35	.286	319.03	.188	169.04	.047	338.22	.161	13.90
4	.011	184.17	.028	270.61	.323	79.42	.066	170.75	.301	104.85
5	.072	100.15	.092	72.52	.087	38.61	.082	62.75	.221	122.11
6	.131	110.32	.093	89.61	.064	110.49	.077	123.74	.172	128.80
7	.022	202.31	.027	242.73	.055	301.23	.009	121.51	.002	254.58
8	.026	355.90	.050	264.16	.046	308.93	.040	341.08	.060	338.70
9	.027	154.83	.007	217.22	.046	226.24	.028	193.36	.027	197.18
10	.028	290.06	.024	320.66	.042	299.45	.027	291.92	.028	5.43

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE 7

MODE 1 DATA FOR α_{MCL} = 6 deg, $\bar{\alpha}$ = 2 deg

σ (deg)	k	page
-135	.0707	312
"	.1217	316
"	.1489	320
-90	.0712	324
"	.1209	328
"	.1499	332
-45	.0718	336
"	.1221	340
"	.1509	344
0	.0716	348
"	.1214	352
"	.1501	356
45	.0710	360
"	.1213	364
"	.1493	368
90	.0717	372
"	.1231	376
"	.1504	380
135	.0709	384
"	.1207	388
"	.1487	392
180	.0713	396
"	.1211	400
"	.1493	404

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 168 ALPHA-MCL = 6.0 POP RUN.PT 33.02
RUN 33 ALPHA-PAR = 2.0 Q-COMP = .33246
POINT 1 SIGMA =-135. V-REF = 202.22
COMPUTED FREQUENCY = 9.10, K = .0707

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.284	4.513	-6.828	.991	-3.907	.267	-2.754	-.127	-2.556	-.443	-2.702	-.728	-2.507	-.883
2	1.542	1.654	.289	-.013	.263	-.068	.195	-.155	.182	-.175	.274	-.088	.249	-.087
3	-3.114	2.609	.398	-.017	.278	.192	.318	.188	.335	.267	.401	.216	.404	.212
4	-.317	-.091	.232	.218	-.042	.071	-.028	.097	.069	.131	.029	.120	.023	.123
5	-.409	.610	-.025	.205	.002	.036	.004	.067	.005	.024	.001	.024	.004	.025
6	.212	.055	-.138	.016	.010	.002	.041	.006	.053	-.004	.037	.005	.034	.007
7	-.121	-.059	-.067	-.117	-.010	.001	.002	-.002	-.035	-.042	-.025	-.030	-.018	-.025
8	.370	-.135	-.003	.003	-.007	.018	-.002	-.009	-.018	.023	-.014	.018	-.007	.012
9	.118	.033	.023	.001	.072	.023	.002	.007	-.001	.008	.004	.012	-.003	.013
10	.026	.035	-.007	.020	-.004	.001	-.006	-.008	-.009	.018	-.008	.003	-.000	.001

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.030	-.791	-1.595	-.648	-1.309	-.481	10.038	-2.071	6.351	-1.405	4.113	-.690	2.802	-.382
2	.200	-.063	.163	-.069	.144	-.097	-.662	-1.596	-.225	-.636	.052	-.276	.103	-.168
3	.358	.213	.403	.220	.409	.218	.430	.327	.509	.702	.425	.224	.407	.225
4	.020	.119	.019	.116	.016	.114	-.020	-.012	.171	-.107	.014	.066	.019	.080
5	.004	.028	.005	.030	.006	.032	.014	.037	-.068	.052	.011	.026	.007	.029
6	.032	.004	.031	.008	.028	.002	.026	-.008	.071	-.026	.032	-.006	.030	-.007
7	-.020	-.029	-.014	-.026	-.018	-.016	-.016	-.005	-.047	-.020	-.022	-.012	-.019	-.010
8	-.004	.013	-.001	.013	.002	.013	.010	-.030	.008	.058	.006	.000	.002	.005
9	-.007	.014	-.006	.012	-.005	.011	-.020	.036	-.013	.021	-.020	.024	-.018	.013
10	-.002	-.005	-.001	.005	.006	.003	.026	.001	.009	-.000	.012	.003	.004	.004

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.625	-.151	1.271	-.022	.509	.091	.179	.117	-.212	-.491	-.195	.287
2	.111	-.108	.146	-.098	.227	-.007	.145	-.109	.255	-.158	-.116	-.196
3	.376	.194	.465	.212	.428	.160	.402	.291	.371	.278	.444	.252
4	.013	.074	-.012	.099	.045	.088	.061	.096	.000	.094	.010	.125
5	.009	.028	.015	.048	-.022	-.026	.012	.039	.008	.035	-.002	.027
6	.034	-.007	.041	-.009	.012	.024	.047	-.014	.026	.009	.040	.009
7	-.023	-.015	-.023	-.013	-.016	-.010	-.020	-.015	-.016	-.017	-.023	-.013
8	.007	.010	.008	.005	.013	.022	.004	.011	.007	.022	.002	.016
9	-.013	.014	-.022	.017	-.006	.003	-.008	.012	-.012	.007	-.004	.008
10	.006	.004	.008	.010	.001	.003	.001	.002	.004	.002	-.003	.004

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 166 ALPHA-MCL = 6.0 POP RUN.PT 33.02
RUN 33 ALPHA-BAR = 2.0 Q-COMP = .33246
POINT 1 SIGMA =-135. V-REF = 202.22
COMPUTED FRECUENCY = 9.13, K = .0707
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.683	169.88	6.900	171.74	3.916	176.10	2.756	182.64	2.595	189.83	2.799	195.07	2.658	199.41
2	2.261	47.01	.290	357.48	.272	345.48	.249	321.49	.252	316.16	.238	342.28	.264	340.87
3	4.063	140.05	.398	357.50	.338	34.70	.369	30.58	.429	38.53	.455	28.34	.456	27.64
4	.330	195.96	.318	43.26	.083	120.76	.101	106.23	.148	62.06	.123	76.60	.125	79.44
5	.734	123.84	.207	97.02	.036	86.66	.067	86.27	.024	77.67	.024	88.32	.025	80.90
6	.220	15.31	.139	173.22	.010	9.45	.041	8.52	.053	355.29	.037	7.98	.035	11.31
7	.134	205.43	.132	241.80	.010	172.92	.002	316.32	.055	229.88	.039	233.60	.031	235.18
8	.394	339.89	.004	138.64	.020	112.14	.009	255.61	.029	128.53	.023	127.03	.014	119.08
9	.124	17.62	.023	3.21	.031	46.13	.007	75.21	.008	95.44	.013	73.04	.013	101.58
10	.044	53.06	.021	110.78	.004	161.72	.010	235.90	.020	116.72	.038	161.11	.001	133.22

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.179	201.28	1.722	202.11	1.395	200.19	10.250	348.34	6.505	347.53	4.170	350.48	2.828	352.23
2	.209	342.61	.177	337.12	.174	326.14	1.728	247.47	.674	250.50	.281	280.77	.197	301.50
3	.442	28.81	.459	28.65	.463	28.07	.540	37.20	.667	54.08	.481	27.79	.466	28.96
4	.120	80.58	.117	80.81	.115	81.77	.023	210.60	.202	327.81	.068	78.26	.082	76.91
5	.029	81.74	.031	79.91	.033	78.99	.039	69.62	.085	142.65	.029	67.40	.030	77.01
6	.033	7.79	.032	14.97	.028	3.18	.027	343.72	.076	339.71	.033	349.09	.031	347.45
7	.034	233.75	.030	242.26	.024	222.52	.017	196.77	.051	202.79	.025	209.13	.021	209.16
8	.014	105.67	.013	94.56	.013	82.76	.032	287.76	.012	45.75	.036	4.85	.006	67.47
9	.015	115.39	.014	117.69	.012	113.23	.041	119.85	.024	122.21	.031	130.13	.022	143.32
10	.002	187.66	.005	100.47	.006	24.40	.026	1.81	.009	358.32	.013	12.55	.006	43.26

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.632	354.70	1.271	359.02	.518	10.17	.213	33.19	.535	246.64	.347	124.23
2	.155	315.96	.176	326.20	.227	358.31	.181	322.88	.300	328.19	.228	239.21
3	.424	27.32	.511	24.45	.457	20.47	.496	35.89	.464	36.83	.510	29.61
4	.075	80.30	.100	97.14	.099	62.99	.114	57.41	.094	89.80	.125	85.54
5	.029	71.77	.051	72.21	.034	230.65	.041	72.98	.036	76.80	.027	95.20
6	.034	348.96	.042	346.94	.027	63.30	.049	343.31	.028	19.03	.041	12.14
7	.028	212.69	.026	210.19	.019	211.01	.025	216.07	.023	227.11	.026	209.02
8	.013	56.22	.010	32.83	.026	59.38	.011	70.04	.023	71.72	.016	82.04
9	.019	133.29	.028	141.87	.007	154.15	.014	124.02	.014	152.13	.009	115.04
10	.007	36.07	.013	51.29	.003	67.90	.002	56.62	.005	27.93	.005	132.86

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE	168	ALPHA-MCL =	6.0	POP RUN.PT	33.02
RUN	33	ALPHA-BAR =	2.0	C-COMP =	.33246
POINT	1	SIGMA =	-135.	V-REF =	202.22

COMPUTED FREQUENCY = 9.10, K = .0707

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	35.322	-6.584	13.179	-2.396	8.020	-.956	5.555	-.255	4.182	.292	3.973	.706	3.016	.975
2	-2.204	-3.250	-.514	-.623	-.211	-.207	-.092	-.013	-.070	.067	-.128	-.010	-.023	.080
3	3.545	-2.282	.111	.720	.148	.032	.090	.038	.041	-.073	.065	-.005	.024	-.052
4	.297	.079	-.061	-.326	.056	-.005	.047	-.017	-.057	-.056	-.041	-.020	.022	-.035
5	.422	-.573	-.042	-.154	.009	-.010	.002	-.038	.004	.004	.015	.024	-.025	-.051
6	-.186	-.066	.209	-.043	.022	-.008	-.011	-.013	-.019	-.002	.004	-.015	-.022	.018
7	.105	.053	.016	.097	-.012	-.013	-.020	-.009	.012	.027	.002	.017	.001	.015
8	-.360	.105	.011	.006	.013	-.018	.004	.014	.025	-.012	.022	-.013	.020	.010
9	-.138	-.022	-.036	.019	-.042	.001	-.020	.006	-.012	.006	-.026	.005	-.004	-.010
10	-.000	-.034	.017	-.020	.016	.002	.010	.012	.015	-.013	.016	.007	.002	.002

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.209	.907	1.383	.157	1.114	.768
2	-.055	-.047	.092	-.089	-.261	-.099
3	.014	.077	-.031	.058	.035	.034
4	.042	-.023	-.018	-.022	-.007	.011
5	.008	.011	.003	.004	-.009	-.006
6	.015	-.019	-.005	.001	.012	.007
7	.000	.013	-.002	.009	-.005	.003
8	.008	-.002	.009	.010	.001	.003
9	-.001	-.002	-.006	-.006	.001	-.003
10	.004	.002	.005	-.003	-.009	.001

N	CNREAL	CNIMAG
1	5.375	-.070
2	-.190	-.166
3	.163	-.016
4	.008	-.040
5	.011	-.036
6	.007	-.009
7	.002	.016
8	.002	.002
9	-.019	.002
10	.008	-.001

N	CMREAL	CMIMAG
1	1.233	-.289
2	-.049	-.069
3	.063	-.015
4	.004	-.009
5	.006	-.014
6	.003	-.003
7	.001	.002
8	-.005	.001
9	-.005	.001
10	.002	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.262	-.470	3.558	-.232	-13.200	1.750	-2.396	-.101	7.681	5.279
2	.191	-.054	.654	-.138	-.322	-1.743	.266	-.211	.727	-.585
3	.357	.470	.667	.098	-.395	.294	.446	.178	.128	.621
4	-.032	.126	.001	.015	-.064	-.278	.029	.141	.211	.083
5	-.010	.039	.016	-.003	-.123	.238	.006	.033	-.218	.142
6	.039	.029	.065	.025	-.098	-.170	.043	.009	.039	.079
7	-.007	-.034	-.036	-.020	.130	-.060	-.015	-.033	-.052	-.020
8	-.027	-.010	-.009	-.000	.027	.053	-.021	.017	-.049	.024
9	-.025	.005	-.015	.054	.067	-.005	.003	.014	.030	-.016
10	-.012	.007	.052	.020	.058	.081	-.009	.008	.017	.038

*** STABILITY PARAMETER

*   *
* XI =   .2888 *
*   *
****

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 168 ALPHA-MCL = 6.0 PDP RUN.PT 33.02
RUN 33 ALPHA-BAR = 2.0 Q-COMP = .33246
POINT 1 SIGMA =-135. V-REF = 232.22
COMPUTED FRECUENCY = 9.16, K = .0707

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.930	349.44	13.395	349.70	6.077	353.29	5.561	357.37	4.192	3.59	4.036	10.07	3.170	17.91
2	3.926	235.86	.808	230.46	.296	224.49	.093	157.94	.097	136.48	.128	184.65	.083	105.79
3	4.216	327.23	.728	61.22	.151	12.18	.097	22.80	.083	299.37	.065	355.96	.057	295.08
4	.308	14.67	.331	259.36	.056	354.91	.050	340.06	.080	224.87	.046	206.60	.042	301.62
5	.712	306.38	.159	254.65	.013	312.92	.038	273.44	.006	46.05	.028	58.34	.057	243.47
6	.198	199.38	.213	348.44	.023	340.15	.017	230.58	.019	186.96	.015	284.36	.028	141.60
7	.116	26.66	.098	80.69	.016	228.34	.022	203.74	.030	65.77	.017	83.87	.016	85.57
8	.375	163.70	.013	27.70	.022	306.67	.015	72.34	.028	333.74	.025	329.35	.022	26.16
9	.138	180.95	.041	151.61	.042	178.15	.021	162.63	.013	155.15	.026	169.18	.010	249.66
10	.034	269.54	.026	310.08	.016	5.62	.016	51.38	.020	317.92	.018	24.37	.003	54.02

X =	.774		.850		.910		N	CN-MAG	PHIN	N	CM-MAG	PHIM
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI						
1	2.368	22.34	1.352	6.48	1.353	34.60	1	5.375	359.26	1	1.267	346.82
2	.072	220.46	.128	315.78	.279	230.76	2	.252	221.17	2	.085	234.86
3	.079	79.73	.066	118.42	.049	44.38	3	.164	354.50	3	.065	346.81
4	.047	331.57	.029	229.96	.013	122.03	4	.041	281.96	4	.010	296.25
5	.014	54.10	.005	58.15	.011	213.78	5	.037	286.85	5	.015	293.49
6	.024	308.72	.005	170.23	.014	30.52	6	.011	309.46	6	.005	317.50
7	.013	88.69	.009	101.73	.006	147.37	7	.016	82.36	7	.003	58.76
8	.008	342.46	.013	45.89	.003	78.36	8	.002	47.09	8	.005	168.45
9	.003	238.59	.008	223.72	.003	287.99	9	.019	175.21	9	.005	165.63
10	.004	33.08	.005	332.49	.009	173.02	10	.008	352.39	10	.002	328.08

*** STABILITY PARAMETER

*   *
* XI =   .2888 *
*   *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.310	348.25	3.564	356.75	13.316	172.45	2.398	182.40	9.320	34.50
2	.199	344.21	.669	348.13	1.772	259.55	.339	321.56	.933	321.19
3	.591	52.75	.674	8.37	.492	143.37	.481	21.73	.634	78.31
4	.130	104.11	.015	87.72	.286	257.04	.144	78.21	.227	21.42
5	.040	104.85	.016	350.77	.268	117.36	.034	80.38	.260	147.01
6	.048	36.09	.069	21.23	.196	240.05	.044	11.76	.089	63.71
7	.035	257.90	.041	209.34	.116	329.19	.037	245.43	.056	230.82
8	.028	199.89	.009	181.43	.059	63.09	.027	141.24	.047	149.63
9	.026	168.26	.056	105.15	.068	355.74	.014	77.83	.034	332.37
10	.019	157.55	.056	20.87	.100	54.62	.012	138.48	.042	66.23

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 170 ALPHA-MCL = 6.0 PDP RUN.PT 33.06
RUN 33 ALPHA-PAP = 2.0 C-COMP = .32473
POINT 3 SIGMA =-135. V-REF = 199.82
COMPUTED FREQUENCY = 15.48, K = .1217

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-26.070	5.526	-7.274	.979	-4.243	.007	-3.044	-.491	-2.602	-.912	-2.991	-1.184	-2.729	-1.357
2	1.396	.971	.039	.289	.024	.248	-.066	.176	-.130	.173	.013	.270	-.023	.283
3	-2.774	3.236	-.029	-.222	-.066	-.003	-.025	-.035	-.017	.047	.002	-.041	.002	-.036
4	-.695	-.435	.256	-.084	-.061	-.082	-.046	-.043	.043	-.054	.013	-.050	.002	-.041
5	-.172	.666	.065	.208	-.015	.026	-.007	.066	-.013	.047	-.024	.033	-.018	.032
6	.186	-.139	-.072	.102	.014	.009	.016	.012	.023	-.017	.022	.038	.015	.004
7	.105	.219	-.065	-.035	.015	.004	.026	-.008	-.013	-.014	-.004	-.018	.002	-.021
8	.152	-.116	.011	.006	.001	.037	.004	.014	.008	.017	.004	.027	.001	.029
9	.051	.120	.001	.021	-.004	.007	-.002	-.005	-.016	.003	-.012	-.001	-.004	.000
10	.016	-.047	-.004	.027	-.005	-.001	-.013	-.007	-.001	-.002	-.004	-.003	-.008	-.005

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.224	-1.256	-1.750	-1.091	-1.470	-.872	10.520	-2.902	6.608	-2.149	4.176	-1.080	2.794	-.678
2	-.074	.309	-.124	.318	-.146	.310	-1.215	-1.197	-.789	-.112	-.260	.137	-.196	.232
3	.009	-.038	.013	-.041	.013	-.329	.110	.007	.425	.207	.066	-.056	.051	-.045
4	.003	-.043	.003	-.047	-.006	-.045	-.358	-.023	-.100	-.170	-.020	-.040	-.007	-.049
5	-.020	.031	-.023	.034	-.017	.036	.010	.057	.038	.108	-.038	.059	-.025	.057
6	.013	.004	.007	.004	.008	.004	-.045	-.014	-.055	-.053	-.017	-.011	-.009	-.005
7	.001	-.022	-.004	-.025	-.001	-.019	-.028	-.052	-.016	-.021	-.013	-.033	-.004	-.027
8	.003	.025	.003	.021	.004	.022	-.006	-.016	-.001	-.014	-.032	-.005	-.001	-.002
9	-.003	.000	-.004	-.001	-.005	.001	.002	-.034	-.038	-.017	.033	-.013	.003	-.009
10	-.008	-.005	-.008	-.011	-.007	-.010	-.001	-.040	.006	-.032	-.035	-.030	-.002	-.031

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.562	-.372	1.133	-.253	.495	-.066	.047	-.085	-.569	-.518	-.132	-.077
2	-.139	.264	-.144	.353	-.020	.337	-.155	.301	-.120	.236	-.310	.316
3	.046	-.055	.038	-.105	.023	-.098	.039	.014	.016	.016	.044	-.058
4	-.017	-.050	-.033	-.044	.016	-.089	.014	-.089	-.016	-.046	.037	-.047
5	-.019	.057	-.021	.070	-.083	.048	-.013	.063	-.016	.052	-.033	.049
6	-.006	-.004	-.004	-.000	.009	.017	-.005	-.018	.006	.011	.001	-.000
7	-.005	-.023	.000	-.032	-.007	-.013	-.002	-.024	-.009	-.018	-.002	-.014
8	-.071	[illegible]	-.015	.001	.012	.006	-.002	.011	.010	.015	.005	.017
9	-.003	-.002	.001	.004	-.003	-.009	-.005	.001	-.005	.002	-.007	.006
10	-.004	-.017	[illegible]	-.023	-.008	-.015	-.006	-.014	-.005	-.013	-.004	-.011

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 173 ALPHA-MCL = 6.0 PDP RUN.PT 33.06
RUN 33 ALPHA-PAR = 2.0 Q-COMP = .32473
POINT 3 SIGMA =-135. V-REF = 199.82
COMPUTED FREQUENCY = 15.43, K = .1217

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	26.649	168.03	7.340	172.34	4.243	179.90	3.084	189.16	2.946	198.02	3.217	201.60	3.048	206.45
2	1.700	34.81	.291	82.36	.249	84.50	.188	110.62	.216	126.94	.271	87.31	.284	94.55
3	4.263	130.60	.224	262.50	.066	182.90	.043	235.06	.050	110.01	.041	272.99	.036	272.90
4	.820	212.01	.270	341.90	.103	233.42	.063	222.96	.069	308.46	.051	283.43	.041	273.03
5	.694	106.10	.218	72.68	.030	120.56	.066	96.04	.049	105.09	.041	126.68	.037	118.92
6	.232	323.31	.124	125.09	.017	32.25	.020	35.71	.038	322.47	.023	19.72	.015	15.04
7	.243	64.41	.074	208.62	.016	15.62	.027	342.97	.019	226.90	.018	257.74	.021	279.40
8	.192	322.75	.017	28.84	.037	88.70	.015	72.81	.019	64.61	.027	81.41	.029	88.19
9	.131	66.91	.021	85.85	.008	118.00	.005	242.64	.016	168.88	.012	183.54	.004	176.51
10	.049	289.02	.028	99.01	.005	196.75	.015	210.02	.002	240.82	.005	216.72	.010	212.04

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.554	209.46	2.063	211.93	1.709	210.68	10.913	344.58	6.949	341.98	4.314	345.50	2.875	346.36
2	.318	103.40	.341	111.36	.343	115.16	1.706	224.58	.797	188.11	.294	152.21	.304	130.27
3	.039	282.94	.042	263.82	.032	294.05	.110	3.72	.473	25.96	.087	319.53	.068	318.05
4	.044	273.39	.047	273.81	.045	262.66	.063	201.80	.197	239.54	.045	243.08	.050	261.57
5	.036	122.68	.042	124.42	.040	115.44	.058	79.80	.114	70.53	.060	98.08	.062	113.58
6	.013	17.80	.008	31.39	.009	27.57	.047	196.94	.076	223.78	.020	212.40	.010	206.33
7	.022	273.26	.025	260.77	.019	266.29	.059	241.85	.026	231.59	.035	248.33	.028	260.78
8	.026	82.39	.022	82.54	.022	80.44	.017	249.93	.014	267.82	.035	247.43	.003	240.45
9	.003	169.37	.004	191.75	.005	170.87	.034	273.50	.019	245.76	.013	282.16	.009	285.91
10	.010	220.61	.013	234.53	.012	234.88	.040	268.43	.032	270.72	.030	260.86	.031	266.71

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.605	346.60	1.161	347.40	.411	350.75	.097	298.80	.769	222.34	.153	210.46
2	.299	117.79	.381	112.17	.337	93.39	.339	117.22	.265	116.94	.442	134.48
3	.071	309.78	.112	269.92	.101	283.22	.041	20.33	.023	44.65	.073	307.02
4	.053	251.04	.056	233.13	.090	280.13	.090	279.21	.049	251.24	.047	278.56
5	.060	108.51	.073	136.96	.096	150.25	.064	101.27	.054	107.21	.059	124.04
6	.007	210.12	.004	183.95	.019	61.99	.019	254.72	.013	59.30	.001	356.63
7	.024	259.02	.032	270.03	.015	240.62	.024	265.94	.018	269.43	.015	262.57
8	.001	168.60	.005	168.39	.013	26.77	.011	98.98	.018	54.65	.018	73.93
9	.004	212.11	.004	80.76	.003	184.25	.005	172.02	.005	154.83	.009	140.09
10	.018	258.26	.023	259.12	.017	242.06	.015	244.99	.014	247.45	.012	251.96

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 170 ALPHA-MCL = 6.0 PDP RUN.PT 33.06
RUN 33 ALPHA-BAR = 2.0 Q-COMP = .32473
POINT 3 SIGMA =-135. V-REF = 199.82
COMPUTED FRECUENCY = 15.48, K = .1217

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	36.591	-8.427	13.882	-3.178	8.420	-1.087	5.839	-.187	4.364	.539	4.124	.931	3.134	1.291
2	-2.611	-2.168	-.828	-.401	-.284	-.111	-.130	.056	-.009	.092	-.156	.082	.003	.053
3	2.894	-3.229	.455	.429	.131	-.053	.075	-.010	.063	-.102	.036	-.064	.021	-.052
4	.637	.411	-.356	-.096	.041	.042	.039	-.006	-.060	.004	-.046	.005	.014	-.048
5	.203	-.610	-.027	-.100	.007	.033	-.018	-.009	-.006	.010	.003	.037	-.065	.015
6	-.232	.125	.016	-.155	-.032	-.020	-.025	-.016	-.029	.014	-.025	-.008	-.006	.013
7	-.133	-.271	.049	.015	-.028	-.037	-.030	-.019	.009	-.009	.034	-.014	-.009	.007
8	-.158	.100	-.017	-.020	-.003	-.042	-.006	-.016	-.009	-.017	-.039	-.026	.011	-.023
9	-.049	-.154	-.009	-.038	.007	-.020	.005	-.004	.013	-.005	.013	.035	.001	-.001
10	-.017	.006	.005	-.060	-.000	-.028	.011	-.023	-.002	-.015	-.031	-.020	.000	-.010

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.270	1.172	1.162	.573	1.338	.794
2	-.051	-.008	.004	-.082	-.164	.005
3	.030	.052	.066	.057	.031	-.029
4	.012	-.045	-.019	.001	.013	-.002
5	.007	.032	.007	.018	-.016	.012
6	-.016	-.022	-.000	.007	-.007	-.004
7	-.003	-.002	.004	.006	-.001	.005
8	-.005	-.015	.008	-.006	.001	-.005
9	-.003	.006	-.001	.003	-.002	.005
10	.001	-.007	.002	-.002	.003	-.001

N	CNREAL	CNIMAG
1	5.614	-.027
2	-.227	-.073
3	.165	-.101
4	-.007	.001
5	-.006	-.010
6	-.023	-.011
7	-.007	-.015
8	-.008	-.016
9	.002	-.009
10	.001	-.017

N	CMREAL	CMIMAG
1	1.289	-.360
2	-.069	-.046
3	.062	-.039
4	-.000	.007
5	.003	-.013
6	-.004	-.003
7	-.002	-.006
8	-.003	-.000
9	-.000	-.005
10	-.000	-.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.298	-.754	3.312	-.525	-13.581	1.873	-2.670	-.500	7.259	5.052
2	-.387	.336	.307	.444	-.920	-1.462	-.086	.164	.419	-.124
3	.018	-.002	.113	-.224	-.796	-.003	-.016	-.073	-.289	.432
4	.064	-.041	.003	-.077	-.171	-.694	.012	-.066	.275	-.053
5	-.067	.047	-.040	.053	.072	.160	-.012	.055	-.231	.188
6	.008	-.010	-.039	-.020	.003	-.057	.024	-.007	-.009	.092
7	.043	-.030	-.012	-.256	.089	.042	-.001	-.024	-.026	-.064
8	-.033	-.000	-.003	.016	.015	.087	-.004	.032	-.028	.047
9	-.002	.003	-.003	-.013	-.016	.045	-.006	.000	-.016	-.011
10	.039	-.012	.002	-.046	.006	.041	-.006	-.005	.002	-.031

*** STABILITY PARAMETER

```
*                 *
* XI =      .3603 *
*                 *
*******************
```

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 170 ALPHA-MCL = 6.0 PDP RUN.PT 33.06
RUN 33 ALPHA-BAR = 2.0 C-COMP = .32473
POINT 3 SIGMA =-135. V-REF = 199.82
COMPUTED FRECUENCY = 15.46, K = .1217

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	37.546	347.03	14.231	347.30	1.490	352.64	5.542	358.16	4.397	7.05	4.228	12.72	3.390	22.39
2	3.394	219.70	.920	265.86	.305	291.27	.142	156.83	.092	95.88	.177	152.22	.053	87.21
3	4.330	311.77	.625	43.35	.142	338.07	.076	352.21	.120	301.64	.074	299.29	.065	288.93
4	.759	32.65	.366	193.60	.059	46.07	.039	350.96	.060	176.04	.046	173.38	.049	286.07
5	.642	286.38	.104	255.06	.034	78.07	.020	205.49	.012	122.61	.037	85.12	.067	166.86
6	.263	151.65	.155	276.04	.037	212.33	.030	212.53	.032	154.41	.027	197.58	.014	113.48
7	.302	243.91	.051	16.93	.046	232.67	.036	212.64	.013	313.30	.014	285.37	.012	140.81
8	.187	147.58	.023	240.02	.042	266.11	.017	250.99	.019	241.64	.028	249.96	.025	295.01
9	.162	252.34	.039	256.16	.021	288.15	.006	320.91	.014	337.72	.014	19.39	.001	333.10
10	.016	160.36	.060	274.52	.028	269.72	.026	295.32	.015	261.03	.020	268.19	.010	272.64

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.555	27.30	1.313	25.86	1.556	30.70
2	.082	185.51	.082	273.00	.164	178.22
3	.060	60.65	.057	63.60	.042	316.86
4	.047	284.64	.019	177.90	.013	351.86
5	.033	77.55	.019	67.08	.020	141.42
6	.029	231.70	.007	90.81	.008	212.81
7	.004	212.92	.007	58.81	.005	97.75
8	.016	251.19	.010	319.88	.005	285.32
9	.003	174.47	.007	113.65	.005	112.62
10	.007	279.06	.003	323.80	.004	335.76

N	CN-MAG	PHIN
1	5.614	359.72
2	.239	197.77
3	.193	328.51
4	.007	172.90
5	.011	238.46
6	.025	205.19
7	.017	245.43
8	.017	243.21
9	.010	283.37
10	.017	274.56

N	CM-MAG	PHIM
1	1.336	343.38
2	.083	213.41
3	.073	327.88
4	.007	90.44
5	.014	284.56
6	.005	217.79
7	.006	250.74
8	.00[illegible]	180.96
9	.[illegible]	265.79
10	.003	269.30

*** STABILITY PARAMETER

```
*                *
* XI =     .3603 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	#1		#2		#4		#6		#10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.419	341.83	3.353	351.00	13.709	172.15	2.716	190.61	8.843	34.84
2	.513	139.04	.540	55.29	1.727	237.81	.185	117.64	.437	343.48
3	.015	353.45	.251	296.90	.796	180.18	.074	257.55	.520	123.83
4	.076	327.01	.077	272.31	.714	256.15	.067	280.34	.280	348.99
5	.062	145.00	.066	127.04	.175	65.90	.057	102.39	.298	140.90
6	.013	307.79	.044	206.42	.057	272.72	.025	343.17	.092	90.17
7	.052	324.66	.057	256.08	.098	25.04	.024	267.96	.069	247.89
8	.033	180.36	.016	100.26	.088	79.91	.033	97.73	.055	120.63
9	.004	124.36	.013	257.53	.048	169.92	.006	179.59	.020	213.25
10	.040	342.93	.046	272.99	.042	82.29	.008	216.89	.032	273.80

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 172 ALPHA-MCL = 6.0 PDP RUN.PT 33.08
RUN 33 ALPHA-BAR = 2.0 Q-COMP = .32962
POINT 5 SIGMA =-135. V-REF = 201.34
COMPUTED FREQUENCY = 19.09, K = .1489

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.072	6.170	-7.205	1.355	-4.059	.237	-2.895	-.302	-2.665	-.733	-2.848	-.979	-2.548	-1.149
2	1.869	.839	.224	.119	.326	.213	.230	.159	.172	.163	.326	.235	.302	.255
3	-2.124	3.614	.040	-.270	-.041	.042	-.024	-.018	-.002	.054	-.009	-.028	-.005	-.032
4	-.692	-.328	.279	-.058	-.100	-.011	-.075	.017	.002	-.002	-.019	-.001	-.029	.003
5	.018	.665	.106	.185	.022	-.006	.036	.011	.042	-.006	.020	-.013	.023	-.010
6	.022	-.218	-.073	.057	.009	.007	.021	.017	.017	-.015	.024	.008	.016	.015
7	.062	.190	-.038	-.016	.011	.019	.021	.009	-.011	.019	-.003	.005	.009	.003
8	.042	-.186	.015	-.012	.003	.002	.005	-.002	.010	.005	.010	.006	.000	.005
9	.137	.039	.009	.009	.020	-.004	.009	-.010	.002	-.004	.003	-.006	.005	-.006
10	-.017	-.073	-.015	-.020	.006	-.009	.006	-.012	.018	-.013	.015	-.009	.007	.002

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.058	-1.058	-1.575	-.884	-1.296	-.649	10.494	-2.866	6.649	-2.035	4.263	-.860	2.872	-.406
2	.248	.289	.199	.304	.178	.292	-.911	-1.133	-.445	-.026	.069	.140	.132	.234
3	-.005	-.036	.005	-.041	.008	-.040	.030	-.097	.357	-.015	.018	-.101	.019	-.077
4	-.025	.001	-.031	-.003	-.028	-.000	-.111	.090	-.164	.005	-.061	.033	-.051	.006
5	.022	-.010	.024	-.008	.026	-.010	.029	-.052	.069	-.025	.013	-.022	.016	-.012
6	.014	.014	.015	.013	.017	.013	.004	.076	-.028	.033	-.003	.032	-.009	.021
7	.009	.004	.011	.007	.012	.005	.024	-.015	.029	.007	.021	.008	.013	.020
8	.003	.004	-.001	.002	.004	.003	.005	.014	.007	.005	.000	.004	.002	-.002
9	.004	-.005	.009	-.004	.003	-.004	-.022	-.009	-.016	-.006	-.002	-.006	.005	-.004
10	.008	.001	.000	.005	.003	.002	.015	.019	.010	.011	-.009	.014	-.012	.007

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.646	-.122	1.238	.077	.522	.232	.176	.229	-.487	-.111	.004	.073
2	.165	.260	.230	.344	.303	.308	.185	.279	.171	.227	.053	.306
3	.022	-.080	.010	-.121	-.002	-.100	.048	-.006	.037	-.000	.015	-.064
4	-.050	.006	-.062	.019	-.025	-.039	-.031	-.034	-.035	.001	-.020	-.004
5	.012	-.008	.022	-.006	-.027	.008	.035	-.006	.032	-.005	.019	-.002
6	.002	.015	.004	.014	.013	.019	-.003	-.000	.016	.007	.012	.010
7	.015	.011	.014	.016	.009	.021	.007	.015	.004	.010	.006	.014
8	.004	-.003	.001	-.001	.012	-.004	.007	.002	.015	-.004	.014	.001
9	-.006	-.004	.007	-.006	.001	-.004	.004	-.005	.003	-.007	.003	-.005
10	-.006	.002	-.008	-.001	-.003	.002	-.004	-.002	.001	-.009	.003	-.008

CCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 172 ALPHA-MCL = 6.0 PCP RUN.PT 33.08
RUN 33 ALPHA-BAR = 2.0 C-CCMP = .32962
POINT 5 SIGMA =-135. V-REF = 261.34
COMPUTED FREQUENCY = 19.09, K = .1489

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.820	166.17	7.332	169.35	4.065	176.65	2.911	185.95	2.763	195.37	3.012	198.97	2.795	204.27
2	2.049	24.17	.253	27.98	.390	33.09	.279	34.60	.237	43.41	.432	35.77	.395	40.13
3	4.192	120.44	.273	278.34	.058	134.43	.030	216.48	.054	92.11	.029	252.74	.032	261.63
4	.766	205.37	.285	348.26	.101	186.37	.077	166.84	.003	311.39	.019	181.49	.029	173.40
5	.669	68.45	.213	60.16	.023	343.69	.037	17.21	.042	352.19	.024	326.90	.025	337.05
6	.219	275.72	.093	142.27	.012	38.80	.027	39.29	.022	318.51	.025	19.17	.022	44.21
7	.200	71.93	.041	202.38	.022	59.27	.023	22.64	.021	120.08	.006	121.66	.009	18.10
8	.191	232.80	.019	320.88	.003	35.92	.005	340.11	.011	28.10	.012	32.13	.005	86.91
9	.143	15.76	.012	43.06	.020	347.86	.014	311.29	.005	296.93	.007	297.98	.007	312.00
10	.075	256.50	.024	233.23	.011	300.73	.013	296.96	.022	325.22	.018	330.64	.007	17.21

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.314	207.21	1.807	209.31	1.450	206.61	10.878	348.72	6.953	342.99	4.349	348.60	2.900	351.95
2	.381	49.44	.364	56.74	.342	58.63	1.453	231.21	.446	183.28	.156	63.93	.269	60.48
3	.036	261.30	.041	276.36	.041	281.37	.102	287.26	.358	357.64	.133	280.01	.080	283.82
4	.025	178.12	.031	185.15	.028	180.61	.143	141.05	.164	178.18	.070	151.89	.052	173.87
5	.024	335.39	.026	342.80	.028	339.45	.059	293.97	.073	340.01	.026	299.27	.020	322.90
6	.020	45.01	.020	42.06	.021	38.90	.076	87.27	.043	130.75	.032	94.53	.023	112.92
7	.010	25.29	.013	32.25	.013	24.74	.028	328.49	.030	12.88	.022	22.03	.024	58.14
8	.005	56.27	.002	103.44	.005	42.41	.014	69.01	.008	35.58	.004	87.96	.003	312.13
9	.006	304.45	.009	335.37	.005	309.52	.024	203.55	.017	200.30	.006	250.36	.007	319.64
10	.006	9.62	.005	85.20	.004	40.06	.024	51.20	.014	48.68	.017	121.40	.014	149.73

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.650	355.78	1.241	3.56	.571	23.98	.289	52.38	.499	192.88	.073	86.52
2	.308	57.57	.414	56.22	.432	45.50	.335	56.45	.284	53.13	.310	80.09
3	.083	285.66	.121	274.69	.100	268.61	.048	352.77	.037	359.38	.066	282.79
4	.051	173.74	.065	162.82	.046	238.16	.046	227.56	.035	179.11	.021	191.60
5	.014	326.37	.023	345.20	.028	163.84	.035	349.99	.033	350.38	.019	353.49
6	.015	81.82	.015	73.02	.023	56.44	.003	136.78	.017	23.21	.016	39.13
7	.019	37.37	.021	48.73	.023	66.65	.016	64.73	.011	69.35	.015	67.46
8	.005	317.40	.002	310.47	.013	343.42	.007	14.83	.016	346.73	.014	5.02
9	.004	264.90	.009	318.87	.004	283.83	.006	305.32	.008	292.62	.005	299.61
10	.007	159.26	.008	187.46	.006	164.93	.004	212.63	.009	279.45	.008	289.21

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 172 ALPHA-MCL = 6.0 POP RUN.PT 33.06
RUN 33 ALPHA-PAR = 2.0 Q-COMP = .32962
POINT 5 SIGMA =-135. V-REF = 201.34
COMPUTED FREQUENCY = 19.09, K = .1489

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.143		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	35.566	-9.036	13.854	-3.390	6.321	-1.097	5.767	-.104	4.310	.611	4.087	1.056	3.070	1.381
2	-2.780	-1.972	-.669	-.144	-.258	-.072	-.097	.075	-.007	.097	-.076	.109	.001	.054
3	2.154	-3.711	.317	.255	.059	-.143	.043	-.059	.024	-.134	.019	-.093	.002	-.068
4	.580	.418	-.443	.063	.039	.044	.023	-.012	-.052	.008	-.042	.020	.004	-.043
5	.011	-.720	-.037	-.210	-.009	-.016	-.020	-.023	-.030	-.002	.002	.007	-.050	.018
6	-.018	.295	.045	-.024	-.012	.025	-.030	.004	-.015	.030	-.019	.006	-.003	.004
7	-.036	-.205	.068	.022	.009	-.011	-.008	.011	.026	-.007	.017	.010	.000	.018
8	-.037	.200	-.008	.017	-.003	.002	-.003	-.001	-.006	-.009	-.009	-.008	.012	-.008
9	-.159	-.048	-.025	-.015	-.022	-.002	-.004	.006	-.002	-.000	.003	.003	-.004	.002
10	.033	.092	.024	.030	-.014	.024	-.018	.019	-.024	.015	-.023	.008	-.015	.000

X =	.774		.860		.910		N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI						
1	2.234	1.267	1.089	.773	1.300	.723	1	5.529	-.001	1	1.272	-.380
2	-.053	-.010	-.029	-.077	-.125	.013	2	-.203	-.038	2	-.067	-.033
3	.053	.030	.033	.040	.006	-.024	3	.113	-.155	3	.043	-.056
4	-.006	-.034	-.005	.003	.007	-.004	4	-.018	.015	4	-.003	.011
5	.013	.004	.008	.002	-.007	.008	5	-.015	-.037	5	-.002	-.019
6	-.016	-.015	.001	-.007	-.005	-.004	6	-.009	.014	6	.000	.006
7	-.002	.010	-.008	.003	-.006	.009	7	.008	.000	7	.002	-.004
8	.004	-.002	.016	-.006	.016	-.002	8	-.001	.003	8	-.002	.004
9	.006	-.002	-.006	-.003	-.001	-.001	9	-.010	-.002	9	-.004	-.001
10	-.011	-.004	.001	-.014	-.000	-.010	10	-.010	.011	10	.001	.005

*** STABILITY PARAMETER

*
* XI = .3803 *
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.339	-.319	3.379	-.151	-13.066	2.371	-2.512	-.220	7.235	5.161
2	-.044	.500	.764	.440	-.536	-1.401	.276	.131	.719	.009
3	.033	-.013	.138	-.251	-.795	.192	-.600	-.055	-.235	.496
4	-.057	-.021	-.039	-.019	-.293	-.549	-.030	.007	.176	.011
5	.030	.012	.005	-.066	.106	.112	.044	-.001	-.079	.113
6	-.040	.024	.036	.025	-.052	-.062	.014	.016	.056	.108
7	-.039	.034	.028	.003	.042	.044	.001	.010	.024	-.004
8	-.035	-.003	.009	.007	-.000	-.014	.034	.006	-.007	.016
9	-.026	.051	-.000	-.010	.047	.000	.005	-.007	.016	-.003
10	.007	.007	.002	-.001	.003	-.001	.036	-.005	-.004	.011

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 172 ALPHA-MCL = 6.0 PDP RUN.PT 33.08
RUN 33 ALPHA-BAR = 2.0 Q-COMP = .32962
POINT 5 SIGMA =-135. V-REF = 201.34
COMPUTED FREQUENCY = 19.09, K = .1489

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	36.696	345.74	14.263	346.25	8.393	352.49	5.768	358.96	4.353	8.07	4.221	14.49	3.366	24.22
2	3.408	215.35	.684	192.18	.268	195.67	.123	142.34	.098	93.93	.145	131.18	.054	89.12
3	4.291	300.13	.407	38.83	.154	292.35	.073	306.25	.136	280.36	.095	281.27	.069	271.89
4	.715	35.77	.448	171.88	.058	48.74	.026	332.78	.053	171.54	.047	155.21	.043	275.99
5	.720	270.84	.213	260.00	.019	239.51	.030	228.96	.030	183.85	.007	72.65	.053	160.62
6	.295	93.54	.051	331.90	.027	115.10	.030	172.11	.033	116.10	.020	162.04	.005	126.14
7	.208	259.49	.071	18.38	.014	311.18	.014	126.69	.027	344.63	.020	30.79	.018	89.09
8	.203	100.53	.019	114.77	.003	142.64	.003	192.90	.011	234.18	.012	220.43	.015	325.07
9	.166	196.87	.029	209.80	.022	184.50	.007	123.74	.002	180.77	.003	7.31	.004	155.47
10	.097	70.34	.039	51.54	.026	121.13	.026	133.96	.029	148.41	.024	161.82	.015	179.91

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.579	29.94	1.335	35.38	1.488	29.06
2	.063	189.28	.082	249.34	.126	173.97
3	.061	29.17	.052	50.67	.025	285.16
4	.035	260.49	.006	145.60	.008	331.13
5	.013	17.43	.008	14.93	.011	134.10
6	.023	219.74	.007	276.85	.006	218.32
7	.011	100.32	.008	159.61	.011	122.67
8	.005	332.85	.017	339.25	.010	348.64
9	.000	357.48	.006	208.77	.001	224.21
10	.012	197.56	.014	274.06	.010	269.82

N	CN-MAG	PHIN
1	5.529	359.99
2	.266	190.50
3	.192	306.20
4	.024	141.06
5	.040	248.35
6	.017	124.85
7	.008	2.00
8	.003	101.44
9	.010	190.42
10	.015	134.50

N	CM-MAG	PHIM
1	1.327	343.35
2	.074	206.57
3	.070	307.85
4	.012	106.36
5	.019	265.45
6	.006	86.28
7	.004	301.90
8	.004	117.94
9	.004	194.47
10	.005	83.65

*** STABILITY PARAMETER

```
*                 *
* XI =      .3803 *
*                 *
*******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.360	352.23	3.383	357.44	13.260	169.72	2.522	185.00	8.888	35.50
2	.502	95.08	.882	29.96	1.500	249.08	.305	25.42	.719	.72
3	.035	338.12	.287	298.77	.817	166.44	.055	269.94	.549	115.37
4	.060	200.20	.043	206.07	.623	241.90	.031	167.94	.176	3.51
5	.032	20.85	.066	274.42	.154	46.45	.044	359.20	.138	125.16
6	.047	148.81	.026	76.72	.081	230.22	.022	48.33	.122	62.72
7	.052	138.79	.028	6.09	.061	46.03	.010	82.98	.025	351.47
8	.009	202.76	.011	40.30	.014	268.12	.007	57.18	.017	114.63
9	.055	111.87	.010	269.34	.047	.28	.009	305.64	.016	347.97
10	.010	44.43	.002	332.64	.003	346.68	.008	319.63	.012	110.22

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 162 ALPHA-MCL = 6.0 PDP RUN.PT 32.01
RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32567
POINT 1 SIGMA = -90. V-REF = 200.14
COMPUTED FREQUENCY = 9.08, K = .0712

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-23.790	10.248	-6.252	1.761	-3.715	.442	-2.525	-.348	-2.119	-.995	-2.021	-1.550	-1.695	-1.871
2	1.922	-.172	.477	-.183	.232	-.242	.159	-.241	.166	-.200	.277	-.143	.217	-.106
3	-.183	4.392	.080	.413	.104	.445	.083	.421	.120	.490	.091	.428	.093	.419
4	-.575	.304	.049	.118	-.075	.169	-.030	.150	.036	.077	.015	.113	.016	.109
5	.464	.261	.079	-.010	.027	-.047	.066	-.039	.008	-.048	.012	-.046	.019	-.051
6	-.129	-.329	-.103	.101	-.102	.019	-.105	-.013	-.112	-.005	-.101	.010	-.099	.009
7	.056	-.077	-.049	.008	.035	-.032	.017	-.028	-.002	.010	-.003	-.005	-.002	-.008
8	-.190	-.219	.034	.000	.020	.012	-.007	.014	.028	.014	-.011	.007	-.005	.007
9	.085	-.014	-.002	-.000	-.004	-.001	.001	.026	-.010	.018	-.011	.016	-.016	.025
10	-.040	.166	.012	.035	-.003	.045	-.007	.035	-.010	.017	-.006	.016	-.005	.013

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.289	-1.714	-.958	-1.483	-.799	-1.237	8.695	-4.735	5.197	-3.174	3.400	-2.144	2.331	-1.558
2	.150	-.056	.105	-.094	.570	-.109	-1.309	-.648	-.576	-.194	-.087	-.114	.011	-.098
3	.092	.406	.097	.411	.103	.407	.185	.329	.484	.596	.121	.345	.112	.365
4	.015	.108	.018	.112	.024	.109	.005	.043	-.042	-.108	.024	.081	.021	.088
5	.020	-.049	.024	-.050	.020	-.053	.016	-.037	.030	.021	.032	-.036	.030	-.033
6	-.091	.005	-.095	.007	-.092	.011	-.125	.054	-.124	.013	-.110	.031	-.104	.014
7	-.006	-.011	-.005	-.013	-.003	-.011	.016	.025	.003	.037	.006	.018	.003	.014
8	.003	.007	-.005	.002	-.002	-.000	-.055	.003	-.024	.007	-.021	.003	-.012	-.002
9	-.016	.024	-.023	.023	-.020	.021	-.014	.039	-.022	.033	-.023	.036	-.026	.030
10	-.005	.013	.000	.009	-.001	.009	-.007	-.036	-.013	-.007	-.003	-.036	-.003	.004

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.357	-1.006	1.165	-.694	.569	-.498	.340	-.435	-.126	-.660	.334	-.127
2	.062	-.090	.102	-.137	.237	-.098	.099	-.121	.073	-.150	-.050	-.099
3	.102	.333	.099	.397	.044	.322	.135	.461	.120	.427	.088	.366
4	.013	.088	.015	.138	.029	.094	.037	.077	.011	.124	.045	.117
5	.031	-.038	.054	-.060	-.012	-.025	.038	-.059	.031	-.056	.019	-.037
6	-.098	.009	-.131	.006	-.066	.012	-.112	.007	-.083	.018	-.087	.002
7	-.003	.008	-.003	.006	-.013	-.008	-.005	-.012	-.011	-.014	-.008	-.010
8	-.006	-.002	-.004	-.005	-.003	-.005	-.007	-.002	.004	-.005	-.002	-.001
9	-.024	.026	-.031	.029	-.030	.029	-.031	.025	-.024	.020	-.027	.020
10	.001	.005	.001	.010	.006	.009	.001	.013	.001	.015	-.003	.013

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 162 ALPHA-MCL = 6.0 PDP RUN.PT 32.01
RUN 32 ALPHA-EAR = 2.0 Q-COMP = .32567
POINT 1 SIGMA = -90. V-REF = 200.14
COMPUTED FRECUENCY = 9.06, K = .0712

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

	X = .012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.904	156.70	6.495	164.27	3.741	173.22	2.549	187.84	2.341	295.14	2.546	217.48	2.524	227.82
2	1.930	354.90	.511	339.06	.335	313.84	.289	303.49	.260	309.73	.312	332.73	.242	334.11
3	4.396	92.38	.421	78.97	.457	76.87	.429	78.82	.504	76.28	.438	78.00	.429	77.51
4	.651	152.15	.128	67.66	.185	113.96	.153	101.33	.085	64.97	.114	82.35	.110	81.84
5	.532	29.38	.068	352.80	.054	300.22	.077	329.64	.049	279.90	.049	283.96	.054	290.33
6	.354	248.52	.144	135.53	.104	169.42	.106	187.11	.112	182.59	.101	174.32	.100	174.98
7	.097	306.63	.049	171.11	.048	317.16	.033	300.84	.010	99.55	.006	240.60	.008	258.09
8	.289	228.95	.034	.00	.023	31.60	.016	115.88	.031	25.91	.013	31.51	.009	52.95
9	.086	350.39	.002	185.85	.004	190.61	.026	87.21	.020	119.22	.020	124.03	.029	121.91
10	.171	103.40	.037	71.18	.045	94.37	.036	100.84	.019	120.19	.017	109.59	.014	110.20

	X = .774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.144	233.04	1.766	237.13	1.473	237.16	9.901	331.43	6.089	328.58	4.019	327.77	2.604	326.24
2	.173	330.31	.141	318.05	.129	302.60	1.461	206.34	.608	198.61	.143	232.83	.099	276.47
3	.417	77.24	.421	77.70	.420	75.77	.378	60.67	.768	50.89	.366	70.63	.382	72.97
4	.109	81.63	.113	60.87	.112	77.61	.043	83.30	.116	248.75	.085	73.42	.090	76.48
5	.053	292.51	.055	295.55	.057	290.56	.040	293.76	.037	35.85	.048	311.82	.044	312.44
6	.091	176.62	.095	175.58	.092	173.15	.136	156.59	.124	173.81	.114	164.47	.105	172.32
7	.012	242.99	.014	249.36	.011	253.41	.030	56.89	.037	84.92	.019	71.41	.014	75.91
8	.007	69.98	.005	158.35	.002	185.90	.055	176.44	.025	164.85	.021	171.27	.012	189.39
9	.028	123.52	.033	134.39	.029	134.41	.041	110.44	.040	124.25	.043	122.43	.039	130.99
10	.014	108.84	.009	87.77	.010	98.03	.037	258.90	.015	208.36	.007	241.09	.005	122.61

	X = .392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.714	324.65	1.469	322.52	.756	318.64	.552	307.98	.672	259.17	.358	339.14
2	.109	304.43	.148	313.73	.257	337.62	.157	309.33	.167	295.94	.111	243.26
3	.348	73.01	.409	75.98	.325	82.24	.481	73.65	.443	74.28	.376	76.51
4	.089	81.78	.139	63.62	.098	72.78	.086	64.62	.124	84.74	.125	69.00
5	.050	309.35	.081	311.72	.027	244.59	.071	302.66	.064	299.19	.042	297.59
6	.098	174.71	.131	177.59	.067	169.50	.113	176.19	.085	167.79	.087	178.56
7	.009	106.73	.009	107.24	.015	212.06	.013	249.06	.018	232.49	.013	233.54
8	.006	195.21	.007	230.25	.006	245.36	.007	209.17	.007	307.05	.003	195.76
9	.035	132.30	.042	136.04	.041	135.84	.039	141.02	.032	140.08	.033	143.05
10	.005	82.76	.010	83.98	.011	57.40	.014	83.82	.015	88.03	.013	102.25

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 162 ALPHA-MCL = 6.0 PDP RUN.PT 32.01
RUN 32 ALPHA-BAR = 2.0 C-COMP = .32567
POINT 1 SIGMA = -90. V-REF = 200.14
COMPUTED FREQUENCY = 9.08, K = .0712

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	32.485	-14.983	11.449	-4.935	7.115	-2.585	4.856	-1.211	3.506	-.011	3.186	.656	2.264	1.373
2	-3.232	-.477	-1.053	-.011	-.319	.128	-.148	.142	-.104	.110	-.175	.036	.020	.008
3	.368	-4.063	.404	.183	.018	-.100	.029	-.056	-.018	-.157	.038	-.031	-.049	-.097
4	.581	-.261	-.090	-.226	.099	-.088	.051	-.062	-.023	.012	.030	.025	.014	-.015
5	-.448	-.298	-.049	.031	.005	.011	-.036	.006	.023	.010	.042	-.012	-.031	.026
6	.005	.383	-.021	-.088	-.008	.012	.001	.027	.014	.014	-.030	-.005	.034	.003
7	-.042	.162	.052	.029	-.029	.050	-.013	.042	-.001	-.001	.001	.014	-.011	-.000
8	.135	.222	-.058	.007	-.041	-.009	-.005	-.016	-.033	-.015	-.016	-.012	-.008	-.012
9	-.099	.353	-.021	.033	-.019	.037	-.027	.004	-.014	.008	-.019	.013	-.014	.004
10	.033	-.262	-.025	-.042	.000	-.051	.004	-.031	.010	-.011	.007	-.006	.011	-.004

X =	.774		.860		.910		N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI						
1	1.629	1.278	.837	.823	1.133	1.110	1	4.612	-.681	1	1.119	-.625
2	-.051	-.036	-.031	-.056	-.120	.010	2	-.276	.030	2	-.091	.004
3	.043	.055	.031	.016	-.015	-.041	3	.042	-.164	3	.019	-.061
4	.021	-.330	-.007	.012	.021	.007	4	.030	-.039	4	.009	-.015
5	.018	-.010	.007	-.006	-.001	.016	5	-.014	-.002	5	-.009	-.004
6	-.022	.002	.011	.011	.004	-.009	6	-.001	.012	6	-.001	.005
7	.001	-.001	-.006	-.001	-.004	.001	7	-.004	.017	7	-.000	.005
8	-.009	-.009	.009	-.007	-.001	-.000	8	-.013	-.002	8	-.001	.003
9	-.015	.001	-.001	-.003	-.006	-.001	9	-.018	.011	9	-.003	.003
10	.006	.000	.000	.006	-.001	.004	10	.034	-.020	10	-.000	-.007

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.500	-1.621	3.343	-.563	-11.967	3.433	-2.102	-.526	1.900	3.163
2	.102	.028	.971	-.152	-.862	-1.414	.237	-.330	.654	.426
3	.003	.554	.263	.168	-.687	1.074	.079	.452	-.096	.093
4	-.060	.112	.045	.064	-.453	-.172	.024	.147	-.280	.289
5	.077	-.023	.077	-.131	.131	-.045	.018	-.069	.162	-.002
6	-.147	-.093	-.139	.158	-.227	-.060	-.138	.009	-.051	-.012
7	.020	.045	.077	-.052	.099	-.148	.025	.001	-.013	-.001
8	-.023	.026	.033	-.024	.130	-.033	.035	.009	-.058	-.005
9	-.043	.001	-.001	.007	.028	-.034	-.005	.018	-.079	.001
10	-.012	-.016	-.042	.016	.072	-.019	-.011	.021	-.020	-.002

*** STABILITY PARAMETER

* XI = .6251 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 162 ALPHA-MCL = 6.0 PDP RUN.PT 32.01
RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32567
POINT 1 SIGMA = -90. V-REF = 200.14
COMPUTED FREQUENCY = 9.06, K = .0712

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.774	335.24	12.467	336.68	7.570	340.03	5.005	346.00	3.506	359.81	3.253	11.63	2.648	31.23
2	3.267	188.39	1.053	180.59	.343	158.17	.206	136.14	.151	133.56	.179	168.32	.021	21.44
3	4.079	275.18	.444	24.38	.101	280.00	.063	297.18	.158	263.51	.032	284.91	.109	243.26
4	.636	335.79	.243	248.18	.133	318.41	.080	309.69	.026	153.40	.025	89.40	.020	312.47
5	.538	213.62	.058	147.50	.012	67.57	.037	170.45	.025	22.69	.044	343.39	.040	139.36
6	.383	89.30	.090	256.74	.014	125.03	.027	87.99	.020	45.22	.030	188.62	.034	5.84
7	.111	112.08	.060	29.38	.058	119.78	.044	107.51	.002	240.18	.014	87.82	.011	181.92
8	.259	58.71	.058	173.57	.042	192.80	.017	252.65	.037	234.25	.020	217.82	.015	238.06
9	.113	151.91	.039	122.11	.042	116.94	.027	171.96	.016	148.73	.023	146.14	.015	164.66
10	.205	279.15	.049	239.25	.051	270.09	.031	277.44	.015	312.36	.009	319.89	.011	339.01

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.071	38.12	1.170	44.68	1.586	44.42
2	.062	215.00	.065	240.92	.120	175.40
3	.070	51.87	.034	27.46	.044	249.38
4	.037	304.86	.014	117.90	.022	19.59
5	.021	329.54	.009	320.95	.016	92.18
6	.022	174.43	.016	43.29	.010	295.78
7	.002	305.93	.006	192.80	.004	172.73
8	.013	225.74	.012	320.74	.001	218.76
9	.015	175.61	.003	244.57	.006	188.24
10	.006	1.33	.006	88.42	.004	112.90

N	CN-MAG	PHIN
1	4.662	351.59
2	.277	173.73
3	.169	284.24
4	.049	307.98
5	.014	188.61
6	.012	95.66
7	.017	134.18
8	.013	190.23
9	.021	147.88
10	.021	280.98

N	CM-MAG	PHIM
1	1.282	330.81
2	.091	177.37
3	.064	287.07
4	.018	301.33
5	.010	201.49
6	.005	101.36
7	.005	90.13
8	.004	114.73
9	.004	130.05
10	.007	267.32

*** STABILITY PARAMETER

```
*                *
* XI =     .6251 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.209	312.79	3.390	350.45	12.450	163.99	2.167	194.06	8.381	76.90
2	.106	15.39	.983	351.11	1.656	238.64	.406	305.76	.781	33.10
3	.554	89.64	.312	32.52	1.275	122.59	.458	80.09	.134	135.99
4	.128	118.29	.079	54.76	.484	200.86	.149	80.54	.402	134.09
5	.080	343.50	.152	300.52	.139	341.13	.071	284.57	.162	359.44
6	.174	212.49	.210	131.22	.234	194.86	.139	176.20	.052	193.33
7	.050	66.10	.093	326.11	.178	303.79	.025	1.96	.013	186.31
8	.034	131.67	.041	324.07	.134	345.77	.036	13.81	.058	184.83
9	.043	178.81	.007	101.03	.044	309.14	.019	106.69	.079	179.58
10	.020	232.92	.045	159.15	.075	344.99	.024	118.94	.020	186.38

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 164 ALPHA-MCL = 6.0 PDP RUN.PT 32.03
RUN 32 ALPHA-PAR = 2.0 O-COMP = .32868
POINT 3 SIGMA = -90. V-REF = 201.08
COMPUTED FREQUENCY = 15.47, K = .1209

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-23.190	11.644	-6.322	2.196	-3.923	.740	-2.816	-.135	-2.524	-.786	-2.456	-1.345	-2.137	-1.636
2	1.335	-.269	.224	.102	.009	.079	-.044	.104	-.022	.174	.081	.229	.051	.270
3	.591	3.790	-.001	.032	.002	.061	-.015	.041	.028	.059	-.040	.002	-.034	.008
4	-.628	.416	.054	.061	-.018	.136	.030	.114	.055	.023	.056	.053	.054	.055
5	.364	-.009	.056	-.024	.012	-.040	.041	-.052	-.007	-.024	.000	-.035	.002	-.043
6	-.083	-.247	.044	.056	.025	-.009	.012	-.017	.018	-.004	.024	-.006	.019	-.002
7	.016	-.024	-.045	.033	.009	-.027	-.005	-.012	-.006	-.002	-.010	.004	.004	.012
8	-.185	-.001	.009	.001	.015	.016	.008	.029	.032	.034	.022	.016	.016	-.002
9	.053	-.103	.017	-.012	.009	.004	.016	.013	.006	.009	.010	.017	.009	.025
10	.065	.044	.021	-.001	.013	.004	.014	-.001	.007	-.005	.011	-.007	.015	-.007

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.726	-1.496	-1.377	-1.257	-1.220	-1.000	7.916	-4.778	4.658	-2.927	2.956	-1.911	1.884	-1.249
2	-.007	.293	-.053	.310	-.062	.305	-1.186	-.040	-.500	.311	-.113	.309	-.045	.303
3	-.040	.004	-.040	.002	-.039	.002	-.046	-.039	.211	-.009	-.072	-.008	-.065	-.002
4	.056	.055	.064	.050	.066	.050	.081	.036	-.030	-.022	.060	.029	.052	.034
5	.007	-.039	.009	-.041	.009	-.040	-.008	-.022	.037	-.013	.017	-.035	.024	-.027
6	.017	.000	.009	-.007	.015	-.009	-.030	-.018	-.023	-.016	-.010	-.010	-.006	-.013
7	.001	.007	.006	.004	.006	.005	.038	.003	.026	.008	.018	.005	.010	.007
8	.021	.006	.027	.006	.020	.001	.015	-.004	.026	.004	.027	.008	.027	.017
9	.003	.023	-.001	.028	.003	.024	-.006	.050	-.055	.036	-.010	.029	-.016	.023
10	.011	-.007	.009	-.007	.008	-.009	-.015	-.022	-.009	-.012	-.005	-.009	-.002	-.005

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.983	-.701	.663	-.499	.166	-.127	-.095	-.055	-.607	-.188	.015	-.054
2	-.012	.283	-.016	.341	.126	.243	-.021	.283	-.071	.267	-.108	.331
3	-.059	-.002	-.085	-.012	-.142	-.025	-.007	.026	-.007	.022	-.070	.004
4	.052	.037	.069	.064	.059	.035	.046	.009	.077	.058	.071	.031
5	.017	-.035	.026	-.055	.011	-.000	.028	-.053	.013	-.041	.018	-.023
6	-.006	-.014	-.015	-.009	.017	-.031	-.007	.000	.013	-.026	.007	-.016
7	.007	.007	.010	.004	-.002	.003	.001	.005	-.004	.003	-.000	-.003
8	.029	.008	.041	.020	.025	.008	.038	.020	.024	.012	.031	.017
9	-.008	.019	-.015	.021	.000	.027	-.003	.019	-.000	.017	-.004	.017
10	-.001	-.005	[illegible]	-.005	.002	-.010	.001	-.007	.004	-.004	.002	-.005

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 164 ALPHA-MCL = 6.0 PDP RUN.PT 32.03
RUN 32 ALPHA-BAR = 2.0 G-COMP = .32868
POINT 3 SIGMA = -90. V-REF = 201.06
COMPUTED FREQUENCY = 15.47, K = .1209

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.949	153.34	6.692	160.85	3.992	169.31	2.819	182.75	2.644	197.29	2.830	208.71	2.691	217.43
2	1.361	348.61	.246	24.53	.080	83.69	.113	113.21	.176	97.27	.243	70.48	.274	79.23
3	3.836	81.14	.032	92.65	.561	88.04	.044	109.79	.066	64.43	.040	177.37	.035	166.15
4	.754	146.52	.081	48.82	.137	97.73	.118	75.44	.060	22.65	.077	43.20	.077	45.50
5	.364	358.59	.060	336.94	.042	286.03	.066	3 8.53	.025	253.59	.035	270.40	.043	273.19
6	.261	251.50	.071	51.76	.027	339.98	.021	306.75	.019	346.48	.025	346.65	.019	354.07
7	.029	302.77	.056	143.52	.024	290.96	.013	248.18	.006	202.25	.011	157.61	.013	71.69
8	.185	180.27	.010	8.67	.022	46.27	.030	74.52	.047	46.24	.027	35.74	.016	352.59
9	.116	297.29	.020	324.59	.009	22.47	.021	39.75	.011	57.08	.020	61.05	.027	71.29
10	.079	34.17	.021	357.19	.013	17.47	.014	356.29	.008	322.14	.013	327.81	.016	335.33

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.284	220.91	1.864	222.39	1.578	219.35	9.246	328.89	5.501	327.65	3.520	327.11	2.260	326.45
2	.293	91.32	.314	99.79	.311	101.55	1.186	181.93	.589	148.15	.329	110.13	.306	98.37
3	.040	174.27	.040	177.16	.035	176.88	.061	220.38	.211	357.48	.072	186.58	.065	181.81
4	.078	44.69	.082	37.86	.083	37.28	.089	24.20	.037	216.42	.066	25.64	.062	33.38
5	.039	279.58	.042	282.39	.041	282.42	.023	251.18	.039	340.50	.039	295.24	.036	312.07
6	.017	.64	.012	323.11	.017	330.57	.034	210.79	.028	215.59	.014	227.02	.014	243.20
7	.007	78.13	.007	32.31	.008	42.20	.038	4.61	.027	17.83	.018	17.06	.012	32.89
8	.021	15.28	.023	14.90	.020	3.93	.015	346.35	.026	7.77	.028	16.46	.032	31.87
9	.024	82.68	.028	93.06	.024	82.09	.051	96.69	.037	98.46	.030	110.05	.028	123.62
10	.014	326.73	.012	320.27	.012	311.11	.027	234.86	.015	232.30	.010	242.90	.006	246.99

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.207	324.51	.829	323.02	.209	322.56	.110	210.05	.035	197.25	.056	285.97
2	.283	92.50	.342	92.62	.274	62.71	.284	94.21	.276	104.82	.348	108.02
3	.059	182.26	.085	168.17	.144	189.92	.027	104.99	.023	107.13	.071	176.98
4	.064	35.39	.094	43.09	.069	30.30	.047	11.20	.096	36.77	.078	23.42
5	.039	296.15	.061	295.44	.011	358.74	.060	298.34	.043	287.26	.029	308.59
6	.015	246.08	.018	210.66	.036	298.74	.007	179.84	.029	296.37	.018	294.18
7	.010	46.08	.011	21.18	.004	126.54	.005	80.88	.005	142.81	.003	263.50
8	.030	15.38	.046	25.51	.026	17.18	.043	27.14	.027	27.34	.036	28.59
9	.021	111.92	.026	125.47	.023	89.02	.019	97.64	.017	90.72	.018	102.15
10	.005	255.31	.005	268.26	.011	280.61	.007	279.34	.005	311.17	.005	290.02

QCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 164 ALPHA-MCL = 6.0 PDP RUN.PT 32.03
RUN 32 ALPHA-PAR = 2.0 Q-COMP = .32868
POINT 3 SIGMA = -90. V-REF = 201.08
COMPUTED FREQUENCY = 15.47, K = .1209

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	31.106	-16.422	10.960	-5.123	6.679	-2.652	4.699	-1.114	3.507	.065	3.118	.846	2.303	1.508
2	-2.520	.229	-.724	.206	-.122	.230	-.000	.199	.010	.108	-.097	.112	.074	-.026
3	-.637	-3.829	.212	-.041	-.074	-.070	-.050	-.043	-.087	-.061	-.045	-.014	-.109	-.033
4	.709	-.379	-.083	-.083	.078	-.107	.022	-.080	-.003	.014	.013	.012	.005	-.020
5	-.372	-.013	-.019	.011	.005	.005	-.017	.025	.024	-.011	.026	-.020	.009	.043
6	.053	.230	-.067	-.072	-.035	-.001	-.018	.004	-.024	-.010	-.039	-.003	-.002	-.029
7	.023	.027	.071	-.025	.009	.028	.015	.018	.013	.010	.020	-.000	-.006	-.009
8	.200	-.003	.016	.002	.012	-.008	.019	-.012	-.004	-.026	.019	.004	.009	.010
9	-.059	.153	-.022	.048	-.019	.025	-.032	.010	-.014	.010	-.024	.004	-.008	-.003
10	-.081	-.066	-.031	-.011	-.018	-.013	-.016	-.004	-.008	.000	-.011	.002	-.013	-.004

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.631	1.441	.770	1.068	1.235	.946
2	-.014	-.010	-.017	-.042	-.046	.027
3	.033	.022	.033	.020	-.032	.002
4	-.010	-.046	.013	.007	.005	-.019
5	.022	-.014	.004	-.001	.010	.017
6	-.024	-.000	.003	-.019	-.008	-.008
7	-.001	-.002	-.010	-.001	-.006	-.008
8	.017	.014	.002	.006	.011	.016
9	-.006	-.005	.001	-.011	-.007	-.006
10	-.010	.001	-.005	.003	-.006	.004

N	CNREAL	CNIMAG
1	4.496	-.663
2	-.149	.095
3	-.048	-.144
4	.029	-.043
5	-.003	.005
6	-.021	-.005
7	.011	.003
8	.017	-.001
9	-.017	.012
10	-.014	-.004

N	CMREAL	CMIMAG
1	1.067	-.656
2	-.062	.025
3	-.006	-.064
4	.011	-.012
5	-.007	-.000
6	-.002	.002
7	.004	.002
8	.003	-.002
9	-.003	.006
10	-.002	-.002

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.056	-1.272	3.005	-.203	-12.643	4.155	-2.464	-.252	2.123	8.585
2	-.181	.516	.893	.258	-1.510	-1.232	-.017	.062	.584	.765
3	-.046	-.033	.029	-.255	-.581	.365	-.037	.007	-.502	-.383
4	-.023	.062	.141	.086	-.365	-.249	.053	.096	-.175	.209
5	.061	.345	-.024	-.107	.157	-.105	.030	-.070	.164	-.005
6	.005	.059	-.023	.014	-.047	-.021	.022	.005	.056	-.016
7	-.021	-.009	.006	-.008	.025	-.095	.016	-.004	.064	-.020
8	.012	.039	-.017	-.035	.101	-.026	.025	.012	.023	.059
9	-.038	-.011	.024	.035	.054	.001	.012	.023	-.017	.048
10	-.032	.039	.011	-.012	.050	-.023	.011	-.007	-.004	-.008

*** STABILITY PARAMETER

```
*                *
* XI =     .6561 *
*                *
******************
```

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 164 ALPHA-MCL = 6.0 PDP RUN.PT 32.03
RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32868
POINT 3 SIGMA = -90. V-REF = 201.08
COMPUTED FREQUENCY = 15.47, K = .1209

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.175	332.17	12.116	334.99	7.372	338.92	4.830	346.67	3.508	1.39	3.231	15.18	2.753	33.22
2	2.531	174.81	.757	163.96	.260	117.96	.199	90.04	.109	84.79	.148	139.73	.079	340.60
3	3.882	260.56	.216	349.08	.101	223.39	.067	220.84	.107	215.21	.047	197.30	.113	196.97
4	.804	331.86	.118	224.97	.133	306.06	.083	285.77	.014	100.68	.017	42.62	.021	283.82
5	.372	182.03	.021	150.39	.007	45.91	.030	124.22	.027	336.35	.033	321.97	.044	78.65
6	.236	76.96	.099	227.18	.035	181.88	.019	167.38	.026	201.71	.040	184.56	.029	266.85
7	.036	50.68	.075	340.76	.030	72.78	.024	50.70	.016	37.19	.020	359.74	.011	236.26
8	.200	359.23	.017	7.24	.014	325.60	.023	328.22	.026	261.70	.019	11.00	.013	47.43
9	.164	111.06	.053	114.59	.032	127.40	.033	162.69	.017	144.38	.025	171.76	.009	198.81
10	.105	219.37	.033	199.87	.022	217.01	.017	194.50	.008	179.63	.012	168.14	.013	195.16

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.176	41.45	1.317	54.21	1.556	37.45
2	.017	215.05	.046	247.90	.053	149.58
3	.040	33.64	.039	31.35	.032	177.11
4	.047	257.78	.015	30.60	.020	285.21
5	.026	327.19	.004	350.73	.020	60.87
6	.024	180.14	.019	280.19	.011	226.22
7	.002	252.16	.010	186.34	.010	233.80
8	.022	38.55	.007	74.28	.019	55.04
9	.007	220.53	.011	276.58	.009	221.92
10	.010	175.09	.006	148.30	.007	147.14

N	CN-MAG	PHIN
1	4.544	351.61
2	.177	147.34
3	.152	251.60
4	.052	303.79
5	.006	121.06
6	.021	192.60
7	.011	17.47
8	.017	356.86
9	.020	144.93
10	.015	196.10

N	CM-MAG	PHIM
1	1.253	328.42
2	.067	157.87
3	.064	264.22
4	.016	313.37
5	.007	181.28
6	.003	133.08
7	.004	26.51
8	.004	324.28
9	.006	115.40
10	.003	220.44

*** STABILITY PARAMETER

*   *
* XI = .6561 *
*   *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.653	309.70	3.012	356.14	13.308	161.81	2.477	185.83	8.843	76.11
2	.547	109.29	.930	16.09	1.949	219.20	.064	105.13	.963	52.63
3	.057	215.47	.257	276.49	.687	147.84	.038	169.74	.632	217.35
4	.067	110.59	.165	31.25	.442	214.39	.110	61.07	.273	130.04
5	.076	36.82	.109	257.06	.189	326.20	.076	293.41	.164	358.25
6	.011	61.59	.027	148.57	.051	203.84	.023	13.96	.058	344.22
7	.023	202.64	.010	309.05	.099	284.44	.017	346.00	.068	342.58
8	.041	73.09	.039	244.57	.104	345.52	.028	25.84	.062	70.80
9	.039	195.79	.043	54.96	.054	1.18	.026	62.00	.051	109.88
10	.050	129.00	.016	311.40	.055	335.80	.013	327.98	.009	243.47

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 166 ALPHA-MCL = 6.0 PDP RUN.PT 32.05
RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32490
POINT 5 SIGMA = -90. V-REF = 199.90
COMPUTED FRECUENCY = 19.08, K = .1499

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-22.667	12.148	-6.150	2.279	-3.640	.663	-2.546	-.264	-2.235	-.935	-2.153	-1.494	-1.793	-1.791
2	1.447	-.620	.142	-.206	.031	-.170	-.010	-.142	.001	-.069	.118	-.046	.084	.000
3	1.265	3.733	.059	-.082	.069	.034	.042	.006	.078	.019	.007	-.047	.004	-.037
4	-.582	.330	.056	-.092	-.046	.065	-.002	.047	.005	-.044	-.001	-.009	-.004	.002
5	.170	-.016	.043	.021	-.027	.001	.001	-.017	-.040	.011	-.028	.001	-.019	-.004
6	-.002	-.241	.053	.060	.011	-.012	-.009	-.012	-.006	.001	-.001	-.008	-.010	-.004
7	-.003	.028	-.052	.046	-.005	-.006	-.016	-.008	-.008	.017	-.005	.007	-.001	-.006
8	-.125	-.034	-.011	-.029	-.006	-.003	-.014	.005	-.001	-.010	-.004	-.003	-.010	.008
9	-.030	.063	-.002	.014	-.012	.004	-.009	.003	-.008	-.000	-.001	.002	.006	-.007
10	-.065	-.031	-.002	-.012	-.000	-.005	.006	-.004	-.003	-.012	.003	-.007	.017	.007

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.378	-1.638	-.988	-1.394	-.629	-1.131	8.395	-5.170	5.175	-3.226	3.379	-2.077	2.268	-1.351
2	.036	.040	.002	.046	-.015	.048	-1.077	-.253	-.393	.070	-.036	.042	.049	.035
3	.005	-.042	.000	-.045	.002	-.040	-.123	-.078	.150	-.111	-.067	-.049	-.043	-.043
4	-.007	-.004	-.008	-.010	-.009	-.006	-.025	.064	-.112	.009	-.037	.006	-.037	-.007
5	-.019	-.004	-.018	-.001	-.015	-.002	.062	-.032	.062	-.013	.028	-.003	.019	.009
6	-.010	-.001	-.008	-.003	-.012	-.004	-.046	.004	-.034	.009	-.011	.012	-.011	.011
7	-.000	-.005	-.003	-.008	.002	-.007	.028	-.019	.026	-.013	.014	-.008	.011	-.004
8	-.012	.006	-.009	.008	-.011	.006	-.039	.036	-.030	.026	-.028	.023	-.027	.013
9	.007	-.007	.010	-.009	.009	-.008	.024	-.043	.019	-.028	.021	-.025	.025	-.013
10	.013	.008	.015	.011	.011	.008	.026	.033	.022	.028	.025	.035	.010	.035

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.313	-.765	1.052	-.546	.531	-.154	.285	-.093	-.233	-.183	.380	-.256
2	.064	.030	.079	.031	.188	-.054	.041	.010	-.017	.033	-.030	.078
3	-.030	-.043	-.046	-.059	-.089	-.039	.059	-.033	.033	-.036	-.015	-.028
4	-.033	-.006	-.025	.002	-.043	-.021	-.042	-.024	-.003	-.016	-.014	-.021
5	.009	.000	-.001	-.007	.014	.036	-.015	.002	-.014	.004	-.002	.008
6	-.008	.005	-.008	.017	-.003	-.010	-.006	.007	-.008	-.008	-.008	-.000
7	.010	-.000	.004	.002	.002	.002	-.002	.010	.001	.003	.002	.001
8	-.016	.006	-.029	.005	-.022	.005	-.016	-.002	-.011	-.002	-.009	.001
9	.011	-.007	.014	-.007	.013	.000	.012	-.001	.008	.000	.006	-.001
10	.036	.019	.024	.021	.023	.019	.001	.014	-.002	.010	-.003	.007

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 166 ALPHA-MCL = 6.0 PDP RUN.PT 32.05
RUN 32 ALPHA-BAR = 2.0 C-COMP = .32490
POINT 5 SIGMA = -90. V-REF = 199.90
COMPUTED FREQUENCY = 19.06, K = .1499

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.143-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.717	151.61	6.558	159.66	3.700	169.68	2.559	185.93	2.430	203.14	2.621	214.75	2.534	224.96
2	1.574	336.62	.250	304.60	.173	250.40	.142	266.02	.089	270.42	.126	338.72	.084	.33
3	3.942	71.28	.101	305.70	.077	25.88	.043	7.87	.080	13.35	.047	278.47	.038	276.78
4	.669	150.41	.107	301.34	.080	125.52	.047	92.55	.044	276.88	.009	262.89	.004	157.15
5	.171	354.45	.048	26.19	.027	178.43	.017	273.68	.042	164.50	.028	178.52	.019	192.99
6	.241	269.48	.080	48.32	.016	312.80	.015	233.44	.006	173.24	.008	261.87	.011	203.19
7	.028	96.27	.070	138.49	.008	231.82	.018	204.85	.019	116.26	.009	126.25	.006	262.30
8	.129	155.16	.031	249.96	.007	205.72	.015	159.64	.010	265.22	.005	217.65	.013	143.11
9	.070	115.35	.014	96.31	.012	161.08	.003	98.45	.008	181.19	.002	124.02	.009	308.50
10	.072	205.31	.012	260.92	.005	267.36	.007	327.94	.012	255.60	.007	297.89	.019	21.85

X =	.774-UPPER		.866-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.143-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.141	229.93	1.758	234.68	1.403	233.75	9.859	328.37	6.098	328.07	3.967	328.42	2.640	329.21
2	.054	47.68	.046	67.48	.051	107.64	1.106	193.22	.399	169.89	.043	98.47	.060	35.49
3	.042	276.26	.045	270.55	.043	272.41	.145	212.59	.187	323.46	.053	216.36	.061	225.27
4	.006	210.98	.013	230.69	.011	215.30	.068	111.21	.112	175.39	.037	170.36	.037	191.06
5	.020	191.50	.018	183.58	.016	186.74	.069	332.32	.063	347.63	.029	354.86	.021	25.59
6	.010	184.10	.008	200.92	.013	197.00	.046	174.64	.035	165.22	.016	134.13	.016	135.36
7	.005	264.57	.009	253.08	.007	287.68	.034	324.82	.029	333.33	.017	329.27	.012	342.09
8	.013	152.56	.012	141.43	.012	149.60	.054	137.33	.040	139.25	.036	139.75	.030	153.86
9	.010	315.36	.013	319.17	.012	316.49	.049	298.84	.034	303.90	.033	310.12	.028	332.35
10	.015	33.11	.018	36.66	.013	34.68	.042	51.63	.036	52.77	.042	55.88	.036	73.57

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.520	329.76	1.185	332.56	.553	343.84	.300	341.95	.296	218.23	.458	326.39
2	.071	25.40	.055	21.65	.196	344.04	.042	13.96	.037	117.38	.054	110.86
3	.052	234.76	.074	232.04	.097	203.87	.067	330.40	.049	312.68	.032	242.22
4	.033	189.80	.025	175.24	.046	206.07	.048	209.39	.016	258.70	.025	236.39
5	.009	2.14	.007	261.99	.036	69.34	.015	171.05	.015	164.39	.008	107.34
6	.010	147.28	.019	115.53	.011	253.15	.009	131.66	.011	225.34	.008	183.08
7	.010	359.15	.005	20.09	.003	43.36	.010	104.08	.004	69.17	.002	19.94
8	.019	150.68	.020	166.66	.022	167.98	.016	187.99	.012	191.97	.009	172.74
9	.013	325.15	.016	331.73	.013	.27	.012	353.20	.008	1.59	.006	353.24
10	.015	73.74	.021	60.07	.019	86.40	.014	87.13	.010	101.10	.008	135.21

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 166 ALPHA-MCL = 6.0 PDP RUN.PT 32.05
RUN 32 ALPHA-BAR = 2.0 Q-COMP = .32490
POINT 5 SIGMA = -90. V-REF = 199.90
COMPUTED FREQUENCY = 19.08, K = .1499

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	31.062	-17.317	11.325	-5.505	7.019	-2.740	4.813	-1.087	3.548	.190	3.205	.948	2.324	1.637
2	-2.524	.367	-.535	.276	-.038	.212	.059	.177	.063	.120	-.039	.077	.105	-.054
3	-1.388	-3.811	.091	-.029	-.136	-.083	-.085	-.049	-.108	-.061	-.053	-.012	-.093	-.002
4	.557	-.267	-.168	.101	.010	-.059	-.035	-.054	-.038	.038	-.024	.012	-.039	-.022
5	-.108	-.016	.018	-.035	.056	-.003	.018	.026	.049	-.011	.027	-.008	.032	.040
6	-.043	.245	-.087	-.051	-.022	.023	-.003	.023	-.002	.005	-.007	.025	.007	-.006
7	.031	-.048	.078	-.059	.019	-.002	.027	.004	.018	-.017	.010	-.006	.003	.008
8	.095	.070	-.019	.055	-.021	.026	-.012	.008	-.017	.017	-.015	.008	-.011	-.003
9	.054	-.106	.020	-.042	.033	-.029	.025	-.016	.018	-.007	.015	-.009	.007	.007
10	.092	.064	.024	.040	.024	.040	.004	.039	.009	.030	.000	.028	-.014	.012

X =	.774		.850		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.664	1.545	.755	1.210	1.210	.875
2	.005	-.030	-.019	-.014	-.014	.030
3	.054	.008	.033	.009	-.016	.012
4	-.035	-.020	.005	-.006	-.005	-.015
5	.005	.006	.003	.005	.013	.009
6	.004	.007	-.000	-.005	.004	.003
7	-.002	.014	.004	.012	-.000	.007
8	-.005	-.008	-.002	-.010	.002	-.005
9	.005	.005	-.002	.009	-.002	.007
10	-.012	.005	-.017	-.001	-.014	-.001

N	CNREAL	CNIMAG
1	4.567	-.667
2	-.096	.093
3	-.069	-.141
4	-.015	-.014
5	.022	.004
6	-.009	.013
7	.016	-.005
8	-.009	.011
9	.015	-.011
10	.003	.023

N	CMREAL	CMIMAG
1	1.086	-.687
2	-.054	.029
3	-.026	-.064
4	.004	-.002
5	.001	-.002
6	-.005	.003
7	.004	-.004
8	-.000	.005
9	.003	-.005
10	.005	.005

*** STABILITY PARAMETER

```
*                  *
* XI =      .6874  *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.500	-1.275	3.267	-.301	-12.288	4.405	-2.056	-.375	2.691	8.532
2	.094	.267	1.091	-.117	-1.767	-1.531	.017	-.226	.656	.493
3	.051	-.001	.068	-.261	-.484	.202	.037	-.038	-.442	-.270
4	-.076	-.023	.006	-.082	-.380	-.337	.001	.008	-.185	.141
5	-.031	.046	.022	-.034	.054	-.043	-.039	.007	.098	-.009
6	-.022	-.026	-.004	.031	.012	-.028	-.004	.001	.048	-.054
7	-.023	.006	.007	-.005	-.027	-.024	-.004	-.004	-.026	.009
8	.004	-.032	-.024	.002	.033	-.061	-.012	-.015	-.012	.006
9	-.012	.027	.014	-.010	.017	.024	.010	.000	-.023	.025
10	-.016	.026	.020	.020	.014	-.033	.009	.004	.003	-.002

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 166 ALPHA-MCL = 6.0 PDP RUN.PT 32.05
RUN 32 ALPHA-PAR = 2.0 Q-COMP = .32490
POINT 5 SIGMA = -90. V-REF = 199.90
COMPUTED FRECUENCY = 19.35, K = .1499

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.563	330.86	12.592	334.08	7.535	338.68	4.935	347.27	3.553	3.06	3.342	16.47	2.843	35.16
2	2.550	171.73	.602	152.71	.216	100.02	.187	71.53	.135	62.15	.086	116.62	.118	332.49
3	4.056	249.99	.095	342.43	.159	211.33	.099	210.02	.124	209.50	.054	192.84	.093	181.26
4	.618	334.43	.196	149.03	.060	279.47	.064	237.21	.054	135.22	.027	154.30	.045	209.77
5	.109	168.30	.039	298.01	.056	356.60	.032	56.27	.051	347.68	.028	343.92	.052	51.17
6	.249	100.06	.101	210.49	.032	133.46	.023	96.19	.005	115.91	.026	105.48	.009	320.79
7	.057	302.73	.098	322.88	.019	353.13	.028	8.34	.025	316.88	.011	328.85	.008	71.13
8	.110	39.45	.059	109.33	.034	128.92	.014	147.64	.024	136.48	.017	152.72	.012	195.67
9	.119	296.79	.047	295.72	.044	318.41	.030	327.40	.020	338.32	.018	328.05	.010	44.88
10	.112	35.00	.047	59.76	.047	59.38	.039	84.28	.031	72.67	.028	89.60	.019	140.00

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.271	42.89	1.427	58.05	1.493	35.89
2	.030	278.86	.023	215.45	.033	115.88
3	.055	8.62	.034	14.65	.020	144.20
4	.040	209.08	.008	310.71	.015	251.65
5	.006	54.16	.006	55.60	.016	35.84
6	.009	60.23	.005	263.91	.005	41.00
7	.015	97.64	.012	71.91	.007	91.81
8	.010	240.71	.010	258.40	.005	286.56
9	.007	48.07	.009	100.87	.008	106.79
10	.013	156.95	.017	182.01	.014	182.57

N	CN-MAG	PHIN
1	4.615	351.69
2	.134	136.12
3	.167	237.96
4	.020	222.50
5	.022	11.02
6	.016	125.40
7	.016	343.36
8	.014	129.05
9	.019	324.36
10	.024	81.57

N	CM-MAG	PHIM
1	1.285	327.66
2	.061	151.64
3	.069	247.63
4	.005	328.34
5	.002	287.65
6	.006	142.60
7	.006	320.20
8	.005	93.44
9	.006	303.10
10	.007	45.48

*** STABILITY PARAMETER

```
*                *
* XI =     .6874 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.968	319.63	3.281	354.74	13.054	163.28	2.089	190.34	8.946	72.49
2	.283	70.53	1.097	353.87	2.338	220.92	.227	274.42	.820	36.97
3	.051	358.65	.269	284.58	.524	157.33	.053	314.22	.518	211.43
4	.079	197.09	.082	273.85	.508	221.60	.008	85.85	.233	142.63
5	.055	124.02	.040	303.44	.069	321.59	.039	170.21	.098	354.86
6	.036	231.67	.031	97.13	.030	293.70	.004	162.77	.073	311.45
7	.024	160.63	.009	325.93	.036	222.21	.006	229.78	.028	160.49
8	.032	277.14	.024	174.81	.069	298.62	.020	231.27	.014	152.09
9	.029	113.52	.017	323.21	.029	53.80	.010	1.83	.034	132.15
10	.033	119.52	.028	45.44	.035	293.02	.010	26.18	.003	325.32

ORIGINAL PAGE IS OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

QCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 144 ALPHA-MCL = 6.0 PDP RUN.PT 29.03
RUN 29 ALPHA-PAP = 2.0 C-COMP = .32009
POINT 1 SIGMA = -45. V-REF = 198.39
COMPUTED FREQUENCY = 9.07, K = .0718

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-19.474	13.269	-4.565	1.998	-2.723	.541	-1.679	-.349	-1.156	-1.051	-.817	-1.631	-.441	-1.979
2	-.446	-.820	.213	-.051	.002	-.023	.011	.023	.065	.077	.132	.101	.078	.138
3	.985	1.494	-.215	-.224	-.215	-.223	-.192	-.191	-.202	-.214	-.265	-.257	-.258	-.250
4	-.050	-.113	.033	-.006	.035	-.003	.045	-.043	.046	-.093	.050	-.047	.050	-.042
5	.420	-.065	.018	.061	.069	.032	.065	.026	.027	.070	.032	.059	.038	.047
6	-.465	-.087	.057	.046	.059	.044	.016	.036	.055	.042	.074	.038	.065	.035
7	.036	-.118	-.015	-.013	-.029	-.034	-.012	.001	-.008	.002	-.029	-.009	-.029	.001
8	-.287	.168	-.065	-.009	-.076	.012	-.069	.011	-.061	-.011	-.053	.001	-.049	-.004
9	.177	-.072	.020	-.006	.006	-.004	.017	-.017	-.003	.003	-.005	.001	-.011	-.004
10	.005	.054	-.015	-.008	.007	-.009	-.008	-.005	.004	-.008	.012	-.009	.013	-.006

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.191	-1.872	-.010	-1.627	.039	-1.496	6.031	-5.166	3.383	-3.261	2.254	-2.449	1.547	-1.849
2	.034	.150	.010	.149	-.002	.146	-.687	.143	-.259	.204	.039	.138	.049	.120
3	-.251	-.245	-.253	-.253	-.261	-.244	-.231	-.173	-.061	-.148	-.253	-.189	-.244	-.200
4	.046	-.044	.051	-.044	.045	-.049	.035	-.099	-.024	-.122	.034	-.073	.039	-.070
5	.038	.046	.047	.054	.043	.053	.023	.070	.032	.074	.027	.059	.028	.056
6	.054	.039	.056	.035	.068	.039	.094	.018	.081	.014	.079	.028	.070	.032
7	-.029	.003	-.030	.006	-.027	.013	-.059	-.003	-.043	-.000	-.039	-.007	-.032	-.009
8	-.047	-.004	-.022	-.003	-.046	.002	-.009	.017	-.029	.013	-.038	.014	-.041	.006
9	-.012	-.002	-.010	.006	-.009	-.008	-.037	.003	-.023	.002	-.014	-.000	-.010	-.003
10	.011	-.003	.010	-.004	.011	-.004	.030	.003	.019	-.001	.013	-.001	.011	-.003

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.987	-1.262	.946	-1.240	.667	-.896	.488	-.707	.177	-.825	.621	-.380
2	.046	.101	.044	.118	.100	.075	.082	.089	-.015	.116	-.011	.147
3	-.232	-.193	-.271	-.247	-.311	-.231	-.228	-.249	-.222	-.224	-.270	-.242
4	.034	-.059	.047	-.075	.058	-.042	.025	-.078	.049	-.051	.035	-.053
5	.031	.048	.044	.059	.043	.046	.040	.048	.042	.042	.051	.052
6	.057	.029	.079	.029	.063	.028	.074	.040	.068	.026	.067	.029
7	-.031	-.052	-.034	-.001	-.033	.009	-.032	.005	-.029	.006	-.026	.010
8	-.045	[illegible]	-.052	.007	-.050	[illegible]	-.056	.005	-.051	.003	-.048	-.000
9	[illegible]	.001	-.007	[illegible]	[illegible]	[illegible]	-.005	-.001	-.009	.003	-.014	.001
10	.007	-.004	[illegible]	[illegible]	[illegible]	-.004	.008	-.002	.006	.001	.003	-.001

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 144 ALPHA-MCL = 6.0 PDP RUN.PT 29.03
RUN 29 ALPHA-PAR = 2.0 Q-COMP = .32009
POINT 1 SIGMA = -45. V-REF = 198.39
COMPUTED FREQUENCY = 9.07, K = .0718

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	23.565	145.73	5.075	156.82	2.777	168.76	1.715	191.75	1.562	222.28	1.824	243.40	2.027	257.44
2	.933	241.48	.219	346.59	.023	274.06	.026	65.69	.101	49.65	.167	37.46	.158	60.34
3	1.789	56.61	.311	226.19	.310	226.07	.271	224.85	.294	226.59	.369	224.18	.359	224.16
4	.124	246.11	.033	349.98	.035	354.65	.062	316.86	.103	296.48	.069	316.56	.066	320.10
5	.429	348.50	.064	73.54	.076	24.71	.071	23.46	.075	68.65	.067	61.54	.061	50.90
6	.473	190.54	.068	42.87	.073	36.83	.039	65.84	.069	37.63	.083	26.94	.073	28.45
7	.124	268.02	.020	220.76	.045	230.05	.012	176.96	.009	166.16	.030	197.33	.029	178.57
8	.345	146.91	.085	166.13	.077	170.99	.070	171.34	.062	190.21	.053	178.41	.049	184.15
9	.193	336.18	.021	342.65	.007	322.35	.024	314.34	.004	135.08	.005	165.19	.012	197.75
10	.055	81.50	.017	268.43	.011	309.43	.010	212.59	.009	295.62	.015	325.41	.014	334.75

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.145-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.882	264.18	1.687	269.66	1.496	271.50	7.941	319.41	4.698	316.05	3.328	312.62	2.411	309.92
2	.154	77.25	.150	86.13	.146	90.74	.702	168.23	.329	141.82	.142	77.66	.129	67.85
3	.351	224.24	.358	224.94	.357	223.04	.289	216.89	.160	247.53	.316	216.79	.316	219.40
4	.066	317.38	.067	319.04	.067	312.56	.105	289.24	.124	258.88	.090	295.37	.080	299.38
5	.050	50.69	.069	51.27	.066	51.01	.073	71.43	.081	66.89	.065	64.88	.063	62.89
6	.075	31.29	.075	28.20	.075	23.93	.095	11.01	.082	9.90	.084	19.27	.077	24.26
7	.029	173.84	.030	168.50	.030	155.05	.059	182.59	.043	180.29	.039	189.69	.033	194.89
8	.047	184.61	.052	183.13	.046	177.41	.019	119.09	.031	155.73	.041	159.31	.041	172.09
9	.012	181.62	.010	179.09	.009	180.23	.037	175.56	.023	174.24	.014	181.75	.010	199.00
10	.011	341.73	.011	339.86	.011	338.58	.030	6.41	.019	358.50	.013	356.66	.011	344.04

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.603	308.03	1.559	307.34	1.117	306.64	.859	304.60	.844	282.12	.728	328.58
2	.111	65.37	.126	69.75	.125	37.05	.121	47.55	.117	97.28	.148	94.20
3	.302	219.85	.367	222.37	.356	216.53	.338	227.54	.316	225.29	.362	221.91
4	.068	300.32	.085	299.16	.071	324.16	.082	287.54	.071	314.04	.064	303.44
5	.057	57.01	.073	53.65	.063	46.52	.063	50.25	.060	45.29	.073	45.74
6	.073	23.63	.088	26.13	.069	23.67	.084	28.37	.073	20.61	.073	23.75
7	.031	184.09	.034	161.39	.034	163.97	.032	170.86	.030	169.25	.028	158.52
8	.046	169.24	.059	172.89	.050	177.96	.056	174.89	.051	177.00	.048	180.53
9	.009	172.37	.007	179.77	.009	159.10	.005	195.58	.009	159.23	.004	157.35
10	.008	332.88	.009	342.21	.009	332.86	.009	346.44	.007	10.13	.004	343.68

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 144 ALPHA-MCL = 6.0 PDP RUN.PT 29.03
RUN 29 ALPHA-BAR = 2.0 Q-COMP = .32009
POINT 1 SIGMA = -45. V-REF = 198.39
COMPUTED FRECUENCY = 9.07, K = .0718

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	25.505	-18.435	8.048	-5.258	4.977	-2.990	3.227	-1.500	2.143	-.212	1.762	.391	1.108	1.082
2	-.241	.963	-.472	.254	.029	.161	.038	.096	-.019	.024	-.089	.017	.021	-.062
3	-1.215	-1.667	.154	.077	-.038	.034	-.052	-.009	-.030	.021	-.006	.010	-.054	.020
4	.085	.014	-.057	-.116	-.000	-.069	-.006	-.027	-.012	.034	-.008	-.027	.008	.000
5	-.397	.155	.014	.013	-.041	.027	-.036	.027	.004	-.023	.012	.001	.005	-.002
6	.558	.105	.031	-.032	.020	-.016	.054	-.004	.012	-.013	.004	.001	-.002	-.007
7	-.097	.115	-.028	.013	-.013	.028	-.020	-.009	-.022	-.004	-.005	.008	-.004	.009
8	.279	-.171	.056	.022	.036	.002	.029	-.005	.015	.020	-.006	.006	-.002	.005
9	-.214	.061	-.043	.009	-.020	.004	-.027	.014	-.006	-.002	-.002	-.001	.003	.007
10	.022	-.051	.034	.006	.006	.008	.019	.002	.003	.005	-.004	.006	-.005	.002

X =	.774		.850		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.678	1.165	.187	.862	.582	1.116
2	.048	-.060	-.025	-.033	-.009	.001
3	.023	-.005	.031	.029	-.009	.001
4	-.024	-.034	-.002	-.007	-.010	-.004
5	.003	.002	-.001	-.011	.008	-.001
6	.010	.001	.002	-.010	-.002	-.001
7	-.003	.002	.000	-.000	.001	-.002
8	-.009	.009	.001	.006	-.002	-.003
9	.005	-.001	.001	.003	.005	.002
10	-.002	.001	-.004	.005	-.007	.003

N	CNREAL	CNIMAG
1	3.042	-.995
2	-.042	.065
3	-.045	-.036
4	-.007	-.021
5	-.016	.008
6	.031	-.004
7	-.013	.008
8	.020	.001
9	-.014	.006
10	.004	.002

N	CMREAL	CMIMAG
1	.855	-.703
2	-.017	.034
3	-.017	-.022
4	.000	-.005
5	-.009	.004
6	.012	.000
7	-.003	.003
8	.009	-.002
9	-.007	.002
10	.003	-.000

*** STABILITY PARAMETER

```
*                  *
* XI =      .7034  *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.491	-1.792	3.759	-.757	-10.100	3.718	-1.351	-.727	-2.742	5.988
2	.205	.260	1.279	-.286	-1.433	-1.067	.107	-.014	-.370	.819
3	-.350	-.290	-.302	-.616	-.691	-.021	-.300	-.317	.124	-.226
4	.046	-.388	.100	-.311	-.300	-.212	.066	-.065	.192	-.132
5	.045	.079	-.031	.054	.183	-.035	.030	.070	.006	.009
6	.095	.047	.085	.044	.125	.027	.070	.051	.018	.034
7	-.052	-.017	-.086	-.007	.075	-.041	-.031	-.014	-.029	-.037
8	-.073	.015	-.075	.038	-.069	-.035	-.076	.001	-.104	-.031
9	-.002	-.006	-.001	-.006	.075	-.020	.005	.000	.014	-.021
10	.019	-.002	.012	.021	-.018	-.055	-.000	-.002	-.015	-.013

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 144   ALPHA-MCL = 6.0   PDP RUN.PT 29.03
RUN 29   ALPHA-PAR = 2.0   Q-COMP = .32009
POINT 1   SIGMA = -45.   V-REF = 198.39
COMPUTED FREQUENCY = 9.07, K = .0718

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	31.470	324.14	9.613	326.84	5.806	329.00	3.558	335.07	2.154	354.36	1.805	12.50	1.548	44.34
2	.993	104.07	.536	151.67	.163	79.92	.103	68.38	.031	128.18	.090	169.14	.066	289.00
3	2.063	233.90	.172	26.50	.051	138.05	.052	189.96	.036	145.37	.042	122.45	.057	159.92
4	.086	9.67	.129	243.97	.069	269.62	.028	257.38	.036	109.13	.029	252.98	.008	2.42
5	.426	158.65	.019	44.30	.049	146.92	.046	142.92	.023	278.82	.012	2.53	.005	342.08
6	.568	10.62	.045	314.40	.026	321.33	.054	355.57	.018	312.18	.034	10.18	.008	257.78
7	.151	130.27	.031	155.72	.029	110.17	.022	204.42	.023	190.83	.010	122.24	.010	114.52
8	.328	328.50	.060	21.43	.038	3.61	.029	350.28	.025	51.63	.008	134.12	.006	107.25
9	.229	159.25	.044	168.74	.020	158.70	.030	152.40	.006	196.47	.003	204.99	.008	62.83
10	.055	293.39	.035	12.41	.010	54.94	.019	6.70	.006	57.99	.007	124.95	.005	158.08

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.348	59.79	.882	77.74	1.259	62.47
2	.077	308.46	.042	233.17	.009	174.04
3	.023	348.25	.042	42.35	.009	170.42
4	.041	235.14	.007	257.64	.011	200.41
5	.004	42.78	.011	264.35	.008	352.72
6	.010	6.04	.010	280.80	.002	209.95
7	.003	142.82	.000	287.67	.003	297.45
8	.012	133.58	.006	61.73	.003	228.98
9	.008	352.78	.003	66.57	.006	15.59
10	.003	146.63	.006	127.64	.008	156.30

N	CN-MAG	PHIN
1	3.201	341.89
2	.078	122.43
3	.058	218.30
4	.022	250.99
5	.018	153.42
6	.031	352.19
7	.015	149.28
8	.020	2.80
9	.015	157.56
10	.005	30.43

N	CM-MAG	PHIM
1	1.107	320.56
2	.038	115.74
3	.028	233.28
4	.005	271.87
5	.010	152.89
6	.012	.18
7	.004	143.22
8	.009	346.68
9	.007	164.85
10	.003	351.03

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.858	285.34	3.835	348.62	10.762	159.79	1.534	208.27	6.586	114.60
2	.331	51.78	1.310	347.40	1.786	216.69	.108	352.55	.899	114.29
3	.455	219.68	.686	243.90	.691	181.71	.437	226.60	.258	298.70
4	.100	297.48	.327	287.75	.367	215.23	.092	315.74	.233	325.61
5	.091	60.36	.062	120.10	.186	349.09	.076	67.00	.011	53.56
6	.106	26.23	.095	27.44	.128	12.01	.086	36.16	.038	61.24
7	.053	198.90	.086	184.66	.086	331.09	.034	204.11	.047	231.78
8	.075	168.47	.084	153.31	.078	207.09	.076	178.96	.108	196.53
9	.006	246.70	.006	261.84	.078	344.95	.005	5.25	.025	334.87
10	.019	353.73	.024	60.45	.058	252.09	.002	258.22	.020	219.74

*** STABILITY PARAMETER

* XI = .7034 *

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 146 ALPHA-MCL = 6.0 POP RUN.PT 29.05
RUN 29 ALPHA-BAR = 2.0 Q-COMP = .32138
POINT 3 SIGMA = -45. V-REF = 198.79
COMPUTED FREQUENCY = 15.46, K = .1221

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.091	14.958	-4.361	2.466	-2.331	.856	-1.434	-.125	-1.013	-.839	-.689	-1.398	-.332	-1.725
2	-.419	-.258	.439	.164	.270	.204	.261	.251	.340	.292	.409	.309	.363	.330
3	1.425	1.071	-.028	-.056	-.008	-.038	.039	-.022	.041	-.043	-.028	-.063	-.022	-.054
4	-.057	-.176	.012	.008	.006	.018	.002	-.018	-.034	-.048	-.009	-.020	-.008	-.020
5	.279	-.260	.042	.035	.062	-.006	.043	-.013	.036	.044	.037	.030	.028	.021
6	-.274	.124	.014	.012	.003	.012	-.020	.041	.002	.021	-.001	.019	-.007	.028
7	-.050	-.035	-.017	-.002	-.019	-.016	.005	-.017	-.007	-.023	-.011	-.010	.005	-.009
8	.096	.084	.007	-.013	.010	-.004	.011	-.006	.007	-.022	.007	-.014	-.003	-.016
9	-.051	-.090	-.027	-.015	-.019	-.009	-.019	-.020	-.016	-.015	-.018	-.014	-.018	-.008
10	.061	.037	.011	.016	.018	.013	.013	.020	.015	.014	.017	.014	.016	.016

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.085	-1.624	.122	-1.446	.170	-1.239	5.395	-5.363	3.146	-3.207	2.062	-2.270	1.431	-1.575
2	.316	.337	.311	.351	.315	.327	-.343	.324	.072	.359	.303	.228	.314	.224
3	-.017	-.052	-.015	-.050	-.024	-.044	.028	.020	.127	-.072	.005	-.012	.002	-.020
4	-.008	-.022	-.010	-.024	-.005	-.021	-.017	-.034	-.052	-.013	-.009	-.020	-.004	-.020
5	.028	.023	.027	.019	.025	.018	.039	.013	.056	.018	.048	.017	.039	.022
6	-.008	.021	-.010	.024	-.006	.018	-.019	.031	-.012	.024	-.013	.017	-.011	.013
7	.003	-.010	.006	-.008	-.001	-.009	.024	-.009	.012	-.007	.008	-.006	.005	-.003
8	.000	-.018	.000	-.021	-.002	-.014	-.021	-.024	-.010	-.019	-.002	-.034	.010	-.033
9	-.017	-.011	-.019	-.009	-.016	-.010	-.000	-.001	-.009	-.007	-.014	-.006	-.011	-.014
10	.016	.015	.016	.018	.015	.013	.004	.006	.006	.007	.007	.010	.006	.014

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.941	-.994	.917	-.875	.694	-.596	.602	-.373	.282	-.410	.797	-.381
2	.299	.217	.368	.283	.362	.208	.383	.229	.307	.321	.330	.300
3	-.010	-.023	-.007	-.040	-.064	-.003	-.004	-.071	.000	-.057	-.032	-.026
4	-.003	-.014	-.019	-.020	.018	-.022	-.028	-.003	.004	-.025	-.005	-.022
5	.039	.015	.049	.020	.034	.010	.040	.021	.035	.013	.036	.012
6	-.008	.010	-.006	.008	-.008	.009	-.002	.006	-.002	.004	-.000	.006
7	-.001	-.001	-.038	-.005	-.004	.000	-.006	-.006	-.008	-.007	-.011	-.009
8	.005	-.023	.019	-.034	.009	-.028	.007	-.023	.007	-.016	.006	-.016
9	-.012	-.009	-.020	-.014	-.013	-.006	-.017	-.013	-.016	-.012	-.012	-.011
10	.008	.011	[illegible]	.012	.011	.011	.011	.011	.011	.011	.009	.011

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 146 ALPHA-MCL = 6.0 PDP RUN.PT 29.05
RUN 29 ALPHA-BAR = 2.0 Q-COMP = .32138
POINT 3 SIGMA = -45. V-REF = 198.79
COMPUTED FREQUENCY = 15.46, K = .1221

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.146-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	22.712	138.81	4.752	148.73	2.483	159.82	1.440	184.96	1.315	219.63	1.558	243.76	1.756	259.11
2	.492	211.62	.468	20.54	.338	37.10	.363	43.89	.448	40.68	.513	37.11	.490	42.28
3	1.782	36.92	.062	243.62	.039	258.29	.045	330.31	.059	313.77	.069	245.82	.059	247.78
4	.185	252.07	.014	31.92	.019	72.69	.018	275.22	.059	234.50	.022	246.43	.022	248.56
5	.382	317.04	.055	40.02	.062	354.05	.045	342.60	.057	50.12	.048	39.59	.035	36.95
6	.301	155.54	.018	41.23	.012	78.18	.046	116.01	.021	84.18	.019	92.05	.029	103.16
7	.069	210.17	.014	190.24	.025	218.96	.018	285.55	.024	252.42	.015	223.26	.011	298.69
8	.128	41.25	.015	298.58	.011	335.27	.012	330.50	.024	288.11	.016	297.26	.016	258.34
9	.109	235.71	.031	209.95	.021	236.53	.028	227.24	.022	223.43	.022	218.14	.019	205.72
10	.072	31.55	.020	55.71	.022	36.19	.024	57.79	.021	44.38	.022	38.95	.022	45.13

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.626	267.01	1.451	274.82	1.250	277.83	7.607	315.18	4.493	314.45	3.067	312.26	2.128	312.26
2	.462	46.82	.469	48.43	.454	46.15	.472	136.59	.366	78.65	.379	36.97	.386	35.52
3	.055	251.46	.052	253.72	.050	241.27	.035	35.80	.146	330.52	.013	294.06	.020	276.81
4	.023	250.00	.026	248.11	.022	257.66	.038	243.13	.053	194.15	.021	246.20	.020	259.32
5	.036	39.33	.033	35.02	.031	36.21	.041	18.44	.059	17.33	.051	19.31	.045	29.03
6	.023	109.75	.026	111.67	.019	107.22	.036	120.95	.027	117.63	.022	127.85	.017	131.32
7	.010	287.25	.010	305.29	.009	265.44	.026	338.79	.015	329.10	.010	322.22	.005	332.30
8	.018	271.45	.021	270.15	.014	260.57	.032	228.69	.022	241.82	.034	266.31	.034	286.79
9	.020	214.29	.021	206.65	.018	212.55	.001	263.46	.011	218.43	.015	204.61	.018	232.79
10	.022	42.53	.024	49.45	.020	40.06	.008	55.89	.009	50.71	.012	55.73	.015	65.65

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.369	313.43	1.268	316.33	.915	319.35	.708	328.22	.497	304.51	.884	334.46
2	.370	36.01	.464	37.62	.418	29.87	.446	30.86	.444	46.31	.446	42.24
3	.025	247.95	.041	260.26	.064	182.73	.072	266.96	.057	270.12	.041	218.75
4	.014	258.35	.022	243.63	.029	308.54	.028	187.20	.025	278.97	.022	257.75
5	.042	20.67	.052	22.19	.036	16.32	.045	27.16	.038	20.45	.038	18.83
6	.013	129.13	.010	127.11	.011	134.65	.006	108.72	.005	116.24	.036	91.54
7	.001	204.90	.010	211.31	.004	175.04	.009	222.44	.011	222.67	.014	220.17
8	.023	283.23	.035	287.23	.030	287.02	.024	286.51	.018	291.73	.017	290.24
9	.015	214.73	.024	215.82	.014	206.91	.021	218.64	.020	218.04	.017	222.73
10	.014	52.49	.016	49.31	.015	46.10	.016	44.83	.015	46.08	.014	51.14

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 146 ALPHA-MCL = 6.0 PDP RUN.PT 29.05
RUN 29 ALPHA-BAR = 2.0 Q-COMP = .32138
POINT 3 SIGMA = -45. V-REF = 198.79
COMPUTED FRECUENCY = 15.46, K = .1221

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	22.487	-20.320	7.207	-5.674	4.393	-3.127	2.865	-1.451	1.954	-.155	1.606	.522	1.026	1.129
2	.076	.562	-.367	.195	.033	.024	.053	-.027	-.041	-.075	-.041	-.026	-.001	-.122
3	-1.397	-1.050	.154	-.016	.013	.026	-.036	.002	-.050	.019	.021	.023	-.042	.051
4	.040	.143	-.064	-.021	-.014	-.037	-.005	-.002	.031	.034	-.001	.000	.026	-.002
5	-.240	.273	.014	-.018	-.014	.023	-.003	.035	.003	-.029	.012	-.011	.007	-.011
6	.255	-.093	-.026	.012	-.016	.005	.009	-.028	-.010	-.011	-.005	-.011	-.001	-.020
7	.084	.025	.026	-.005	.027	.009	.003	.015	.006	.022	.002	.005	-.009	.010
8	-.117	-.108	-.018	-.006	-.012	-.030	-.001	-.027	-.002	-.000	.003	-.020	.012	-.013
9	.051	.089	.019	.009	.005	.003	.008	.006	.004	.006	-.002	-.001	.005	.002
10	-.057	-.031	-.005	-.009	-.012	-.004	-.006	-.006	-.006	-.004	-.007	-.002	-.005	-.005

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.687	1.251	.160	1.036	.627	.858
2	.067	-.108	-.005	-.030	.016	-.027
3	.014	-.019	.015	-.007	-.008	.018
4	-.020	.018	.014	-.000	-.000	-.001
5	.012	-.002	.009	-.006	.011	-.006
6	.006	-.016	.008	-.020	.005	-.012
7	-.009	.004	-.014	.001	-.010	.000
8	.006	-.004	.006	.005	.006	-.002
9	-.000	-.002	.003	-.003	.003	-.001
10	-.005	-.003	-.005	-.007	-.006	-.002

N	CNREAL	CNIMAG
1	2.734	-1.063
2	-.016	-.013
3	-.043	-.019
4	.001	.005
5	-.003	.006
6	.005	-.014
7	.005	.009
8	-.003	-.015
9	.006	.005
10	-.008	-.005

N	CMREAL	CMIMAG
1	.751	-.743
2	-.010	.021
3	-.017	-.016
4	-.002	.000
5	-.005	.006
6	.002	-.000
7	.004	.001
8	-.004	-.003
9	.002	.002
10	-.001	-.001

*** STABILITY PARAMETER

```
*                  *
*  XI =     .7434  *
*                  *
********************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.005		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.840	-1.376	3.973	-.480	-9.011	4.415	-1.107	-.416	-2.274	6.137
2	.387	.603	1.892	-.293	-1.150	-.417	.399	.252	.084	1.111
3	.026	-.029	.046	-.400	-.345	.156	-.027	-.066	.366	.013
4	.039	-.016	.046	-.184	-.263	-.187	.000	-.030	.132	-.025
5	.008	.089	.027	-.058	.152	-.122	.042	.026	-.019	.009
6	-.032	.021	.001	-.032	.103	.005	-.005	.017	.038	.028
7	.056	-.026	.015	-.045	.042	.006	.004	-.018	.015	-.030
8	.022	-.047	.008	.004	.040	-.072	.007	-.023	-.012	-.009
9	.036	-.035	-.010	-.007	-.012	-.039	-.019	-.016	-.038	-.035
10	-.023	.023	-.004	-.009	.045	.030	.013	.018	.007	.016

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 146 ALPHA-MCL = 6.0 PDP RUN.PT 29.05
RUN 29 ALPHA-BAR = 2.0 Q-COMP = .32138
POINT 3 SIGMA = -45. V-REF = 198.79
COMPUTED FREQUENCY = 15.46, K = .1221

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	30.308	317.90	9.172	321.79	5.392	324.56	3.212	333.15	1.960	355.46	1.689	18.02	1.525	47.73
2	.587	82.56	.415	152.02	.041	35.88	.059	332.91	.085	241.42	.049	212.32	.122	269.71
3	1.748	216.94	.155	354.08	.029	62.76	.037	176.45	.054	159.23	.031	46.98	.066	129.29
4	.148	74.36	.067	197.89	.040	249.23	.006	201.50	.046	47.33	.001	178.35	.026	355.68
5	.364	131.35	.023	308.83	.027	121.51	.035	95.56	.029	275.63	.016	317.81	.013	302.61
6	.271	339.88	.029	155.52	.017	161.50	.030	287.42	.015	226.96	.013	244.49	.020	266.67
7	.088	16.79	.026	348.92	.029	19.02	.015	89.85	.023	75.07	.005	65.24	.013	133.48
8	.160	222.74	.018	197.93	.032	248.22	.027	268.41	.002	190.36	.020	279.56	.017	313.04
9	.108	55.58	.020	25.37	.005	32.08	.010	37.05	.007	61.49	.032	192.66	.005	22.57
10	.065	208.79	.010	240.36	.012	197.58	.009	224.48	.007	209.52	.007	193.82	.007	223.04

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.427	61.23	1.048	81.23	1.062	53.82
2	.127	302.06	.031	261.08	.032	299.89
3	.024	304.96	.016	335.98	.020	114.34
4	.027	136.83	.014	358.42	.001	260.71
5	.012	348.97	.010	327.46	.012	330.40
6	.017	290.12	.021	290.65	.013	294.94
7	.010	157.43	.014	175.01	.010	178.78
8	.007	326.55	.008	36.79	.009	346.51
9	.002	269.09	.004	312.22	.004	338.03
10	.006	216.27	.009	235.09	.006	195.10

N	CN-MAG	PHIN
1	2.933	338.75
2	.021	219.49
3	.047	203.88
4	.005	81.32
5	.007	114.53
6	.015	288.43
7	.010	62.22
8	.015	259.55
9	.008	40.46
10	.009	212.37

N	CM-MAG	PHIM
1	1.057	315.29
2	.023	115.81
3	.024	223.17
4	.002	174.08
5	.007	130.46
6	.002	355.55
7	.004	13.16
8	.005	221.49
9	.003	51.82
10	.001	212.85

*** STABILITY PARAMETER

```
*                *
* XI =     .7434 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.612	301.42	4.001	353.11	10.034	153.90	1.183	200.62	6.544	110.33
2	.716	57.34	1.914	351.20	1.223	199.91	.472	32.29	1.114	85.67
3	.039	311.51	.403	276.61	.379	155.67	.072	247.73	.366	2.08
4	.042	337.51	.190	283.96	.323	215.39	.030	270.36	.134	349.14
5	.090	84.61	.064	294.71	.195	321.32	.049	31.36	.021	153.18
6	.038	146.73	.002	301.94	.103	2.99	.018	105.01	.029	73.61
7	.062	335.26	.047	289.08	.042	8.32	.019	283.56	.034	297.11
8	.052	294.50	.009	27.55	.082	299.04	.024	286.98	.015	216.61
9	.050	315.65	.012	214.34	.041	252.32	.025	219.80	.052	222.51
10	.032	135.09	.010	243.74	.054	33.16	.022	53.22	.018	67.68

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 148 ALPHA-MCL = 6.0 PDP RUN.PT 29.07
RUN 29 ALPHA-BAR = 2.0 Q-COMP = .32013
POINT 5 SIGMA = -45. V-REF = 198.40
COMPUTED FREQUENCY = 19.06, K = .1509

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-16.952	15.232	-4.546	2.464	-2.921	.819	-2.071	-.189	-1.780	-.905	-1.492	-1.448	-1.120	-1.742
2	-.474	-.410	.123	-.193	-.038	-.153	-.021	-.121	.041	-.127	.085	-.129	.041	-.096
3	1.320	.891	-.014	-.017	.011	-.000	.053	.007	.047	-.013	-.009	-.012	-.004	-.010
4	-.001	-.353	.015	-.022	.001	-.006	-.010	-.036	-.034	-.051	-.013	-.029	-.024	-.025
5	.060	-.187	-.026	.024	-.009	-.005	-.022	.001	-.012	.040	-.015	.030	-.010	.026
6	-.230	.127	.028	-.013	.022	-.015	.021	.005	.036	-.014	.038	-.023	.035	-.018
7	.077	-.073	.011	-.007	-.005	.001	.014	.001	.007	.004	.000	.011	-.001	.010
8	-.044	.110	-.012	-.005	.000	-.004	.002	-.012	.006	-.018	.008	-.015	.004	-.010
9	.040	-.105	-.003	-.009	-.006	-.005	-.008	-.008	-.012	-.002	-.009	.001	-.001	-.000
10	-.025	.059	-.014	.001	-.010	-.010	-.007	-.007	-.007	-.018	-.004	-.016	.000	-.003

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.864	-1.642	-.663	-1.465	-.619	-1.252	4.363	-5.350	2.271	-3.095	1.222	-2.172	.603	-1.474
2	.015	-.084	.015	-.092	.017	-.089	-.588	-.100	-.198	-.105	-.006	-.197	.026	-.185
3	-.001	-.012	.002	-.010	.004	-.007	.023	.014	.079	-.063	.015	-.012	.010	-.011
4	-.020	-.030	-.024	-.034	-.021	-.035	-.070	.005	-.078	.000	-.051	-.023	-.035	-.034
5	-.008	.028	-.009	.025	-.006	.025	.025	.032	.018	.030	.012	.034	.001	.030
6	.034	-.017	.031	-.015	.028	-.016	.027	-.031	.024	-.022	.020	-.017	.024	-.012
7	-.000	.010	.000	.005	-.002	.009	-.007	.026	.001	.017	.006	.010	.004	.013
8	.004	-.009	.001	-.006	.004	-.011	.014	-.018	.003	-.014	-.006	-.004	-.010	-.009
9	-.001	.002	.000	-.001	-.004	.001	-.003	.022	.000	.014	.009	.011	.006	.012
10	.001	-.003	.000	.004	-.002	-.002	.000	-.014	-.006	-.005	-.008	.011	-.016	.006

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.189	-.918	-.009	-.787	-.100	-.542	-.249	-.338	-.479	-.348	.006	-.473
2	.025	-.165	.042	-.188	.064	-.209	.056	-.230	.034	-.088	.037	-.113
3	.007	-.012	.009	-.022	-.024	.028	.010	-.037	.005	-.035	-.004	.006
4	-.035	-.031	-.039	-.041	-.015	-.052	-.040	-.026	-.025	-.047	-.022	-.043
5	.005	.029	.000	.032	-.004	.033	.000	.033	-.005	.027	-.003	.023
6	.018	-.014	.024	-.014	.020	-.016	.024	-.018	.023	-.012	.023	-.014
7	.005	.008	.007	.005	.006	.006	.004	.005	.000	.006	.001	.009
8	-.003	-.010	-.003	-.011	-.003	-.013	-.002	-.012	.000	-.015	.004	-.016
9	-.000	.008	-.002	.007	.001	.006	-.004	.004	-.006	.004	-.008	.004
10	-.011	.003	-.016	.002	-.011	.004	-.013	.000	-.011	-.005	-.011	-.007

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 146 ALPHA-MCL = 6.0 PDP RUN.PT 29.07
RUN 29 ALPHA-PAR = 2.0 Q-COMP = .32013
POINT 5 SIGMA = -45. V-REF = 198.40
COMPUTED FREQUENCY = 19.06, K = .1509

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.146-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	22.796	138.06	5.171	151.54	3.033	164.34	2.079	185.21	1.997	206.94	2.079	224.14	2.071	237.25
2	.627	220.87	.229	302.61	.158	256.22	.123	259.95	.133	288.04	.155	303.36	.104	292.96
3	1.593	34.02	.023	230.18	.011	359.67	.054	7.95	.049	344.27	.015	233.39	.011	246.15
4	.353	269.91	.026	303.55	.006	277.29	.037	254.77	.062	236.14	.031	245.93	.035	226.74
5	.196	287.87	.036	137.02	.010	207.26	.023	176.25	.042	106.68	.033	116.21	.028	111.62
6	.253	151.06	.031	336.05	.026	325.18	.022	13.40	.038	338.56	.045	329.04	.040	333.28
7	.106	316.45	.013	326.42	.005	164.66	.014	5.53	.008	28.48	.011	88.57	.010	94.78
8	.119	111.65	.017	263.76	.004	273.18	.012	280.27	.019	288.04	.017	297.39	.011	293.29
9	.113	290.58	.009	253.69	.005	217.09	.011	224.37	.012	190.11	.009	173.23	.001	183.60
10	.064	113.23	.014	175.42	.014	225.33	.010	226.75	.020	249.07	.018	257.21	.003	270.70

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.656	242.25	1.608	245.63	1.396	243.69	6.904	309.20	3.639	306.27	2.492	299.37	1.593	292.24
2	.085	280.29	.093	279.35	.091	290.57	.597	189.65	.224	208.05	.197	268.20	.187	277.92
3	.012	267.62	.010	284.56	.005	300.32	.027	31.34	.101	321.46	.019	321.44	.015	312.33
4	.036	235.78	.041	234.99	.041	238.92	.070	176.01	.078	179.72	.056	204.54	.049	224.18
5	.029	106.59	.027	110.53	.025	103.19	.040	51.32	.035	59.43	.036	70.14	.030	87.86
6	.038	333.72	.034	333.90	.033	329.86	.041	310.73	.033	317.52	.026	320.64	.027	334.09
7	.010	91.74	.005	88.25	.009	102.15	.027	104.13	.017	87.13	.012	61.48	.014	72.18
8	.010	295.09	.006	278.38	.012	290.70	.023	308.10	.014	283.06	.007	213.74	.013	221.43
9	.002	125.47	.001	273.64	.004	162.86	.022	97.36	.014	89.60	.014	51.84	.014	64.04
10	.003	282.80	.004	87.29	.002	227.51	.014	270.03	.008	218.57	.014	126.47	.017	161.24

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.937	261.61	.787	269.35	.551	259.58	.420	233.69	.592	216.01	.473	270.70
2	.167	278.48	.192	262.70	.219	286.96	.237	263.70	.094	290.68	.119	287.98
3	.014	300.17	.024	292.03	.037	130.04	.038	284.43	.036	278.12	.007	123.60
4	.046	221.73	.057	226.27	.054	254.33	.048	212.88	.053	241.65	.048	243.25
5	.029	80.45	.032	69.16	.033	97.10	.033	89.95	.028	101.42	.023	97.87
6	.023	321.64	.028	329.25	.026	321.21	.030	322.65	.026	333.14	.027	329.11
7	.009	56.68	.009	38.28	.006	46.72	.006	52.41	.006	89.04	.009	83.56
8	.010	255.69	.012	255.57	.013	256.23	.012	259.00	.015	270.67	.016	282.64
9	.006	93.25	.007	101.92	.006	80.74	.006	140.14	.007	145.69	.009	150.06
10	.012	165.06	.016	174.23	.011	160.25	.013	178.32	.013	204.96	.014	213.51

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 146 ALPHA-MCL = 6.0 PDP RUN.PT 29.07
RUN 29 ALPHA-PAR = 2.0 C-COMP = .32013
POINT 5 SIGMA = -45. V-REF = 198.40
COMPUTED FREQUENCY = 19.06, K = .1509

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	21.315	-20.562	6.818	-5.559	4.143	-2.991	2.674	-1.286	1.969	-.014	1.483	.661	1.021	1.199
2	-.114	.310	-.321	.087	.031	-.043	.047	-.064	-.017	-.038	-.043	-.058	.023	-.113
3	-1.297	-.877	.093	-.045	.004	-.012	-.043	-.018	-.040	.001	.018	-.010	-.019	.038
4	-.070	.358	-.093	.022	-.052	-.017	-.026	.001	-.000	.020	-.027	-.012	.009	-.027
5	-.035	.218	.044	.006	.021	.038	.024	.028	.017	-.012	.015	.003	.006	.007
6	.257	-.158	-.004	-.010	-.001	-.002	.003	-.017	-.017	-.000	-.015	.009	-.015	.002
7	-.084	.100	-.010	.024	.011	.009	-.010	.012	-.002	.004	.036	-.006	.006	-.004
8	.056	-.129	.015	-.009	-.006	.001	-.012	.003	-.008	.008	-.011	.004	-.007	-.003
9	-.042	.127	.003	-.023	.015	.015	.014	.020	.012	.010	.037	.036	.002	.006
10	.025	-.073	.008	-.006	.002	.021	-.010	.013	-.004	.021	-.011	.020	-.011	.007

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.615	1.304	.185	1.117	.625	.779
2	.041	-.146	.019	.003	.020	-.024
3	.010	-.025	.003	-.026	-.006	.013
4	-.020	.004	-.002	-.013	-.000	-.007
5	.008	.005	.004	.002	.003	-.002
6	-.011	-.001	-.008	.003	-.005	.003
7	.004	-.005	-.000	.001	.003	-.000
8	-.007	-.002	-.001	-.008	-.001	-.005
9	-.003	.002	-.006	.005	-.004	.003
10	-.013	.003	-.012	-.009	-.010	-.006

N	CNREAL	CNIMAG
1	2.600	-.980
2	-.015	-.041
3	-.043	-.033
4	-.022	.008
5	.013	.015
6	-.000	-.006
7	-.001	.006
8	-.004	-.004
9	.004	.013
10	-.006	.007

N	CMREAL	CMIMAG
1	.710	-.734
2	-.012	.011
3	-.018	-.016
4	-.006	.007
5	.002	.005
6	.005	-.003
7	-.002	.003
8	.001	-.002
9	.001	.003
10	.002	.000

*** STABILITY PARAMETER

```
*                *
* XI =    .7339  *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.089	-1.564	3.134	-.451	-9.638	4.306	-1.933	-.468	-2.859	5.826
2	.217	-.102	1.470	-1.055	-1.436	-.838	.039	-.230	-.086	.494
3	.027	.005	.015	-.361	-.322	.202	-.012	-.013	.375	-.030
4	-.016	-.043	-.044	-.155	-.199	-.042	-.020	-.022	.106	-.096
5	-.043	-.000	-.094	-.007	.026	-.029	-.020	.037	-.043	-.015
6	.024	.040	.012	-.041	.073	-.023	.038	-.024	.039	-.019
7	-.005	.018	-.022	.015	.050	-.016	.006	.005	.031	-.038
8	.028	-.009	-.029	-.024	-.001	-.009	-.004	-.014	-.006	.005
9	.004	.031	.000	-.005	.010	-.013	-.005	-.007	-.006	-.016
10	.029	-.042	-.010	.003	-.021	.007	-.008	-.005	-.012	.020

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 148 ALPHA-MCL = 6.0 PDP RUN.PT 29.07
RUN 29 ALPHA-PAR = 2.0 Q-COMP = .32013
POINT 5 SIGMA = -45. V-REF = 198.40
COMPUTED FREQUENCY = 19.06, K = .1509

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	29.630	316.00	8.797	320.81	5.110	324.17	2.967	334.32	1.969	359.60	1.624	24.03	1.575	49.61
2	.331	110.19	.333	164.76	.054	305.90	.079	306.59	.042	246.46	.072	233.60	.115	281.52
3	1.566	214.07	.104	334.00	.012	288.12	.047	203.27	.040	178.51	.020	331.10	.042	117.12
4	.365	100.98	.096	166.41	.054	198.45	.026	176.76	.020	90.87	.029	205.13	.029	288.48
5	.221	99.08	.044	7.59	.044	60.99	.037	50.27	.020	325.48	.015	9.36	.009	49.74
6	.302	328.33	.010	245.97	.002	229.27	.017	280.84	.017	181.12	.017	148.70	.015	173.85
7	.130	130.04	.025	112.44	.034	40.28	.015	129.88	.004	123.71	.009	317.82	.007	329.78
8	.141	294.35	.017	329.35	.006	175.18	.012	166.95	.011	137.01	.011	161.88	.008	204.04
9	.134	108.41	.023	62.21	.021	46.63	.024	55.46	.015	40.67	.010	39.43	.006	68.42
10	.078	289.12	.010	323.41	.021	85.26	.016	127.83	.022	101.87	.023	120.37	.013	145.84

X =	.774		.860		.913							
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	N	CN-MAG	PHIN	N	CM-MAG	PHIM
1	1.442	64.73	1.132	80.61	.998	51.26	1	2.779	339.35	1	1.021	314.04
2	.152	285.61	.019	10.59	.031	310.02	2	.043	249.80	2	.016	137.38
3	.027	292.04	.026	275.68	.015	121.86	3	.054	217.05	3	.024	220.73
4	.020	168.39	.013	262.48	.007	268.25	4	.023	160.24	4	.009	131.22
5	.010	31.69	.004	27.28	.003	326.13	5	.020	47.45	5	.006	69.80
6	.011	185.91	.009	156.20	.006	153.15	6	.006	266.42	6	.006	322.83
7	.006	306.77	.001	92.85	.003	354.20	7	.006	103.59	7	.004	120.65
8	.007	199.22	.008	265.08	.005	263.38	8	.005	229.48	8	.002	303.81
9	.003	150.38	.008	139.36	.005	138.99	9	.014	73.06	9	.004	76.97
10	.014	166.37	.015	218.50	.011	213.44	10	.009	131.48	10	.002	8.22

*** STABILITY PARAMETER

* XI = .7339 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.566	266.74	3.166	351.61	10.556	155.93	1.989	193.62	6.489	116.14
2	.239	334.88	1.810	324.33	1.663	210.28	.233	279.55	.502	99.92
3	.027	9.76	.361	272.36	.380	147.85	.317	226.61	.376	355.40
4	.046	250.27	.161	254.23	.244	215.41	.029	227.92	.143	318.01
5	.042	180.15	.094	184.40	.039	311.95	.042	116.40	.046	199.14
6	.047	58.86	.042	286.01	.077	342.43	.045	328.04	.043	334.43
7	.019	113.86	.027	145.44	.052	342.74	.008	37.28	.049	308.72
8	.030	342.92	.037	219.29	.009	266.76	.015	252.89	.007	142.07
9	.031	82.29	.005	272.79	.017	306.92	.009	236.58	.017	248.94
10	.051	303.58	.011	163.09	.022	160.74	.009	210.32	.023	121.45

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILF 138 ALPHA-MCL = 6.0 PDP RUN.PT 28.04
RUN 26 ALPHA-BAR = 2.0 O-COMP = .32297
POINT 1 SIGMA = 0. V-REF = 199.30
COMPUTED FREQUENCY = 9.08, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-18.550	4.321	-3.905	1.197	-2.158	.743	-1.161	.507	-.463	.356	.214	.246	.514	.221
2	-.238	.156	-.082	.068	-.111	-.060	-.057	-.015	-.036	-.005	-.044	-.046	-.045	-.087
3	-.762	.340	.236	-.282	.176	-.224	.196	-.228	.248	-.266	.274	-.285	.264	-.275
4	.408	.458	-.073	-.002	-.058	.001	-.029	.020	-.050	.002	-.069	-.003	-.062	-.003
5	.076	-.079	.016	-.052	-.005	-.022	.005	-.058	-.002	-.055	-.005	-.049	-.007	-.052
6	.185	-.014	-.072	-.071	-.040	-.056	-.044	-.063	-.055	-.068	-.043	-.062	-.042	-.057
7	-.025	-.157	.020	.009	.023	.000	.029	-.012	.034	-.010	.037	-.014	.041	-.017
8	.033	.078	-.007	.015	.006	.009	-.011	.006	-.011	.004	-.013	.006	-.014	.007
9	-.066	-.157	-.008	-.007	-.012	-.010	-.011	-.000	-.007	.003	-.007	.001	-.007	.003
10	-.079	.140	-.007	.033	-.008	.030	-.008	.032	-.004	.023	-.001	.022	-.002	.020

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.814	.196	.862	.219	.829	.237	4.893	-.855	2.448	.040	1.820	.079	1.300	.256
2	-.046	-.129	-.046	-.143	-.045	-.148	-.095	-.480	-.018	-.203	-.031	-.154	-.037	-.146
3	.254	-.266	.263	-.265	.248	-.273	.198	-.272	.224	-.227	.226	-.263	.235	-.262
4	-.055	-.003	-.062	-.003	-.061	.001	-.053	-.009	-.039	.001	-.055	-.000	-.056	-.003
5	-.010	-.054	-.009	-.057	-.006	-.053	-.034	-.047	-.027	-.052	-.016	-.046	-.014	-.051
6	-.042	-.051	-.045	-.053	-.046	-.049	-.042	-.032	-.041	-.045	-.045	-.048	-.036	-.050
7	.045	-.020	.048	-.021	.043	-.025	.034	-.034	.032	-.027	.033	-.023	.036	-.017
8	-.016	.007	-.017	.008	-.015	.010	-.034	-.012	-.018	-.005	-.015	.001	-.012	.002
9	-.008	.006	-.007	.005	-.004	.006	.002	.029	-.003	.017	-.004	.013	-.005	.012
10	-.003	.017	-.002	.017	-.001	.013	.013	-.000	.002	.006	.001	.008	-.000	.009

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.893	.319	.931	.468	.776	.383	.611	.489	.575	.325	.463	.556
2	-.039	-.129	-.051	-.159	-.045	-.135	-.007	-.136	-.052	-.153	-.049	-.122
3	.218	-.241	.272	-.297	.242	-.262	.262	-.283	.240	-.267	.237	-.264
4	-.051	.001	-.068	.001	-.057	-.002	-.070	-.005	-.061	-.003	-.060	.008
5	-.011	-.043	-.010	-.059	-.009	-.054	-.010	-.062	-.012	-.054	-.007	-.055
6	-.044	-.046	-.051	-.058	-.042	-.050	-.052	-.050	-.050	-.051	-.041	-.049
7	.033	-.019	.045	-.023	.036	-.017	.051	-.025	.046	-.019	.041	-.017
8	-.009	.005	-.012	.010	-.010	.010	-.013	.013	-.009	.011	-.006	.009
9	-.003	.005	-.005	.008	-.003	.009	.001	.003	-.005	-.001	-.002	.003
10	-.001	.010	.000	.012	-.001	.006	-.001	.012	.001	.008	-.001	.015

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 136 ALPHA-MCL = 6.0 PDP RUN.PT 28.04
RUN 28 ALPHA-BAR = 2.0 Q-COMP = .32297
POINT 1 SIGMA = 0. V-REF = 199.30
COMPUTED FREQUENCY = 9.08, K = .0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	19.047	166.89	4.084	162.96	2.282	160.99	1.267	156.40	.584	142.42	.326	48.93	.559	23.23
2	.285	146.77	.107	140.45	.12[illegible]	[illegible]08.15	.059	194.59	.036	188.24	.064	225.82	.098	242.54
3	.834	155.99	.368	309.97	.285	308.08	.300	310.63	.364	312.93	.395	313.84	.381	313.78
4	.613	48.34	.073	181.92	.058	178.58	.035	146.04	.050	178.12	.069	182.38	.062	182.49
5	.110	313.68	.054	287.10	.023	257.85	.058	274.46	.055	267.93	.049	264.35	.052	262.00
6	.185	355.68	.101	224.55	.068	234.61	.077	235.[illegible]5	.087	230.70	.075	235.23	.071	233.18
7	.159	261.06	.021	24.52	.023	.41	.032	337.[illegible]	.036	343.04	.039	338.60	.044	336.86
8	.085	66.80	.017	113.72	.011	53.39	.012	153.2[illegible]	.012	159.22	.014	156.60	.016	155.75
9	.170	247.10	.010	220.15	.015	220.82	.011	182.52	.008	159.38	.007	174.21	.008	156.16
10	.161	119.41	.034	102.06	.031	104.47	.033	133.35	.023	99.33	.022	93.18	.020	96.00

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.837	13.51	.889	14.23	.862	15.97	4.967	350.08	2.448	.93	1.822	2.49	1.325	11.14
2	.137	250.22	.150	252.19	.154	253.21	.490	2[illegible].85	.204	264.94	.157	258.59	.150	255.91
3	.368	313.71	.373	314.85	.369	312.26	.336	3[illegible].14	.319	314.65	.347	310.66	.352	311.95
4	.055	182.64	.062	183.05	.061	179.39	.054	190.06	.039	178.33	.055	180.02	.057	183.16
5	.055	259.90	.057	260.95	.053	263.44	.058	234.20	.058	242.74	.049	250.70	.053	254.74
6	.066	230.79	.070	230.14	.067	227.09	.053	217.24	.061	227.75	.065	226.73	.061	234.30
7	.049	335.47	.052	336.65	.049	329.93	.048	314.58	.042	319.41	.040	324.72	.040	334.36
8	.017	155.07	.015	146.39	.018	146.73	.036	199.72	.019	195.67	.015	176.27	.012	172.58
9	.009	142.63	.008	147.10	.007	124.37	.029	86.43	.017	99.57	.014	106.41	.013	112.63
10	.017	99.72	.017	96.59	.013	96.29	.013	358.13	.006	70.85	.008	81.69	.009	92.27

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.948	19.69	1.042	26.66	.865	26.25	.782	38.70	.661	29.51	.723	50.22
2	.135	253.05	.167	252.35	.142	251.77	.136	267.09	.159	251.14	.131	248.28
3	.325	312.09	.403	312.48	.357	312.71	.386	312.83	.359	311.89	.355	311.90
4	.051	179.32	.068	179.54	.057	181.55	.070	184.31	.061	182.60	.060	172.86
5	.045	256.14	.060	259.92	.055	260.61	.063	261.06	.055	257.29	.055	262.85
6	.064	226.70	.077	228.44	.065	230.08	.072	223.63	.071	225.63	.063	230.04
7	.038	330.05	.051	332.89	.040	335.56	.057	334.07	.050	337.54	.044	337.55
8	.011	148.87	.015	139.71	.014	135.02	.018	134.70	.015	130.22	.010	123.10
9	.006	122.45	.010	119.22	.009	107.10	.003	72.71	.005	186.33	.004	127.66
10	.010	97.21	.012	87.60	.006	96.43	.012	95.30	.008	81.48	.015	95.10

ORIGINAL PAGE IS
OF POOR QUALITY

SEMI PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 138 ALPHA-MCL = 6.0 PDP RUN.PT 28.04
RUN 28 ALPHA-PAR = 2.0 C-COMP = .32297
POINT 1 SIGMA = 0. V-REF = 199.30
COMPUTED FREQUENCY = 9.08, K = .0716

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	23.443	-5.176	6.357	-1.157	3.978	-.664	2.462	-.251	1.355	-.037	.717	.222	.262	.162
2	.144	-.636	.064	-.271	.030	-.095	.021	-.131	-.004	-.124	-.006	-.114	.001	-.048
3	.961	-.611	-.012	.055	.050	-.039	.040	-.034	-.030	.025	-.001	-.012	-.022	.013
4	-.460	-.467	.034	.004	.002	-.001	-.027	-.023	-.001	-.001	.001	.003	.005	.001
5	-.109	.037	-.043	.006	-.011	-.023	-.018	.007	-.009	.012	-.006	-.009	-.002	-.002
6	-.227	-.018	.031	.076	-.005	.038	.008	.014	.012	.021	-.008	.004	.001	.007
7	.059	.123	.017	-.036	.016	-.024	.007	-.005	-.001	-.009	.009	-.009	-.004	.001
8	-.067	-.090	-.012	-.021	-.021	-.008	-.001	-.004	.002	.001	.001	.004	.004	.004
9	.066	.186	.005	.023	.008	.027	.006	.013	.004	.002	.002	.008	.004	.005
10	.092	-.141	.039	-.027	.009	-.023	.007	-.023	.002	-.013	.002	-.010	.001	-.014

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.203	.294	-.267	.107	-.366	.219
2	.039	-.007	-.006	-.008	-.004	.026
3	.006	-.017	-.024	-.003	-.011	.009
4	-.015	-.003	.002	.001	.001	.007
5	-.000	-.007	-.003	.003	-.001	-.002
6	-.010	.002	-.005	.002	.005	.001
7	.006	-.004	-.001	.001	-.002	.008
8	.003	.006	.007	.003	.029	-.001
9	.005	-.003	.002	-.005	.002	-.003
10	.002	-.005	.003	-.009	.000	.002

N	CNREAL	CNIMAG
1	2.112	-.728
2	.022	-.101
3	.030	-.021
4	-.016	-.016
5	-.012	-.001
6	-.005	.008
7	.005	-.004
8	-.003	-.004
9	.007	.012
10	.006	-.017

N	CMREAL	CMIMAG
1	.794	-.171
2	.007	-.026
3	.018	-.010
4	-.006	-.008
5	-.004	.000
6	-.002	.001
7	.002	-.001
8	-.003	-.003
9	.001	.005
10	.002	-.004

*** STABILITY PARAMETER

*
* XI = .1708 *
*
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.212	.384	3.263	.194	-8.813	1.609	-.671	.419	-5.582	.721
2	-.031	-.038	.268	-.985	-.470	-.901	-.039	-.032	-.383	-.427
3	.297	-.374	.239	-.559	-.397	-.263	.312	-.331	-.050	-.256
4	-.065	-.004	-.043	-.138	-.202	-.309	-.068	.003	-.119	-.028
5	-.007	-.052	-.042	-.093	.048	-.068	.006	-.060	-.040	-.031
6	-.000	-.063	-.056	-.076	-.260	-.070	-.065	-.072	-.101	-.123
7	.034	-.029	.065	.013	.058	.015	.035	-.010	.037	.003
8	-.021	-.106	-.067	.013	.053	.108	-.013	.010	.008	.034
9	-.066	.016	-.019	.054	-.033	-.019	-.011	.007	.013	-.012
10	-.004	.022	.026	.042	.006	.384	-.012	.032	-.006	.065

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 138	ALPHA-MCL = 6.0	PDP RUN.PT	28.04
RUN 28	ALPHA-BAR = 2.0	Q-COMP =	.32297
POINT 1	SIGMA = 0.	V-REF =	199.30
	COMPUTED FREQUENCY = 9.08,	K =	.0716

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	24.007	347.55	6.458	349.68	4.033	350.52	2.474	354.18	1.356	358.45	.751	17.23	.308	31.73
2	.652	282.73	.279	233.34	.124	310.34	.132	278.99	.124	268.26	.114	266.81	.048	270.93
3	1.139	327.53	.056	102.52	.063	322.36	.052	319.55	.039	140.03	.012	263.71	.025	149.01
4	.656	225.44	.034	5.97	.003	328.34	.036	219.58	.001	231.06	.004	68.34	.005	12.26
5	.114	163.44	.043	179.73	.026	244.42	.020	157.94	.015	126.82	.011	239.38	.003	235.33
6	.227	184.51	.040	39.67	.010	122.53	.016	58.35	.024	61.33	.009	153.77	.007	83.85
7	.136	64.50	.038	269.02	.026	293.40	.009	321.30	.009	261.04	.013	314.94	.004	168.67
8	.112	233.20	.024	240.67	.023	199.61	.004	253.89	.002	31.55	.004	72.17	.006	40.58
9	.198	69.58	.024	77.54	.025	71.74	.014	63.33	.005	26.73	.008	72.93	.007	52.55
10	.168	303.28	.029	268.38	.024	291.66	.024	287.57	.013	281.02	.011	279.50	.014	275.81

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.357	124.64	.306	159.55	.485	136.96
2	.040	349.48	.018	235.45	.026	98.75
3	.019	295.77	.024	186.52	.014	141.32
4	.015	190.44	.002	20.37	.007	85.58
5	.007	269.67	.004	139.31	.002	245.14
6	.010	170.36	.006	154.76	.005	9.78
7	.008	325.21	.002	133.14	.006	103.67
8	.006	60.69	.004	46.36	.009	353.46
9	.009	340.75	.005	292.36	.004	301.38
10	.005	290.75	.010	268.97	.002	87.37

N	CN-MAG	PHIN
1	2.124	353.85
2	.103	282.03
3	.037	325.50
4	.023	226.14
5	.012	186.00
6	.010	118.72
7	.007	325.60
8	.005	231.58
9	.014	62.05
10	.018	290.61

N	CM-MAG	PHIM
1	.813	347.86
2	.027	284.40
3	.020	331.52
4	.010	231.08
5	.004	174.93
6	.002	149.08
7	.002	342.24
8	.004	223.70
9	.005	75.61
10	.005	297.11

*** STABILITY PARAMETER

* XI = .1708 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.439	61.09	3.269	3.41	8.959	169.65	.792	148.02	5.628	172.64
2	.049	230.86	1.021	285.22	1.016	242.47	.051	219.33	.574	228.15
3	.478	308.45	.608	293.10	.477	213.56	.454	313.34	.261	258.86
4	.065	183.27	.145	252.66	.369	236.87	.068	177.68	.122	193.21
5	.052	268.04	.102	245.91	.063	304.88	.061	277.92	.051	217.90
6	.100	236.29	.091	236.68	.092	229.04	.097	227.80	.160	230.56
7	.045	319.27	.066	11.25	.059	14.47	.037	344.50	.008	24.10
8	.021	180.35	.068	168.74	.121	63.71	.016	142.55	.035	76.52
9	.017	110.86	.057	106.93	.038	209.49	.013	148.49	.018	318.00
10	.022	99.78	.046	64.49	.085	85.71	.034	110.80	.065	95.26

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 140 ALPHA-MCL = 6.0 PDP RUN.PT 28.06
RUN 26 ALPHA-BAR = 2.0 Q-COMP = .32435
POINT 3 SIGMA = 0. V-REF = 199.73
COMPUTED FREQUENCY = 15.44, K = .1214

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.888	2.677	-3.944	.630	-2.339	.266	-1.454	.071	-.076	-.026	-.246	-.052	.023	.006
2	-.095	.342	.013	.225	-.004	.120	.018	.191	.041	.222	.037	.183	.040	.146
3	-.959	.268	-.012	-.053	-.064	-.000	-.035	-.004	-.006	-.028	-.008	-.019	-.013	-.017
4	.370	.470	.009	-.021	.028	-.007	.053	.004	.030	-.010	.034	-.011	.037	-.011
5	.004	-.023	.011	.034	-.004	.054	.006	.023	.002	.033	.001	.035	.001	.030
6	.210	.065	.021	-.008	.033	.009	.018	.006	.017	.008	.010	.006	.007	.006
7	-.023	-.135	-.021	-.003	-.022	-.006	-.015	-.010	-.023	-.011	-.015	-.002	-.011	.002
8	.039	.028	.001	.018	-.002	.014	-.005	.012	.019	.007	-.002	.007	-.002	.004
9	-.011	-.061	.001	-.005	.007	-.004	.002	-.001	.002	-.001	.002	-.001	.002	.000
10	.012	-.007	.007	.003	.002	.004	.003	.006	.003	.008	.001	.008	.000	.009

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.293	.064	.314	.132	.248	.184	4.055	-.697	1.898	.182	1.258	.187	.731	.381
2	.042	.108	.038	.101	.048	.091	.029	-.195	.075	.047	.064	.093	.053	.103
3	-.019	-.014	-.022	-.017	-.020	-.010	-.002	.012	-.014	.015	-.017	-.012	-.016	-.017
4	.041	-.010	.041	-.003	.044	-.006	.046	-.020	.053	-.017	.041	-.010	.039	-.003
5	.000	.026	.001	.024	.002	.021	.016	.008	.015	.019	.017	.026	.010	.028
6	.004	.006	.006	.007	.005	.005	-.020	.012	-.007	.008	-.006	.001	.000	-.000
7	-.008	.006	-.012	.008	-.014	.009	.007	.009	-.005	.008	-.014	.010	-.020	.004
8	-.001	.009	.002	-.003	-.003	.001	-.003	-.015	.003	-.009	.022	-.014	.024	-.004
9	.001	.002	.000	.003	-.001	.001	.004	.009	.002	.007	.000	.007	.000	.003
10	-.000	.010	-.004	.009	-.002	.010	-.008	.004	-.006	.005	-.005	.003	-.004	.004

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.371	.466	.264	.653	.171	.524	-.045	.628	-.106	.415	-.038	.661
2	.047	.101	.056	.125	.053	.107	.080	.126	.032	.105	.051	.110
3	-.020	-.019	-.025	-.028	-.023	-.026	-.026	-.025	-.017	-.020	-.030	-.027
4	.036	-.003	.042	.002	.034	.000	.043	.008	.040	.012	.033	.000
5	.012	.025	.014	.034	.014	.029	.013	.024	.007	.032	.004	.027
6	.002	-.001	.007	.000	.008	-.003	.007	-.001	.010	-.003	.013	.001
7	-.018	.006	-.027	.005	-.015	.008	-.025	.007	-.018	.003	-.015	.002
8	.016	-.004	.031	-.008	.015	-.005	.018	-.002	.010	.001	.014	.001
9	-.001	.002	-.002	.001	-.003	-.001	-.001	-.002	-.000	-.001	-.001	.000
10	-.003	.004	-.003	.007	-.003	.007	-.003	.009	.001	.008	-.003	.009

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 140 ALPHA-MCL = 6.0 PDP RUN.PT 28.06
RUN 28 ALPHA-PAR = 2.0 Q-COMP = .32435
POINT 3 SIGMA = 0. V-REF = 199.73
COMPUTED FREQUENCY = 15.44, K = .1214

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	18.087	171.49	3.994	170.92	2.354	173.51	1.456	177.19	.677	181.70	.262	192.04	.024	14.32
2	.355	105.45	.226	66.82	.120	91.84	.192	84.55	.226	79.58	.167	78.47	.151	74.67
3	.995	164.41	.054	257.23	.064	180.00	.036	186.34	.028	256.81	.020	246.95	.021	231.02
4	.598	51.80	.023	293.90	.029	346.02	.053	4.35	.031	340.76	.036	342.51	.039	344.32
5	.023	280.80	.035	71.40	.054	94.74	.024	75.55	.033	86.97	.035	87.90	.030	88.79
6	.226	21.99	.022	339.99	.034	14.90	.019	19.97	.018	24.73	.012	33.55	.009	42.45
7	.137	260.29	.031	165.11	.023	196.08	.018	213.80	.025	205.79	.015	189.27	.011	171.37
8	.046	36.13	.018	65.86	.014	96.91	.013	113.70	.020	21.87	.008	108.59	.004	115.41
9	.062	259.38	.006	278.26	.008	329.56	.002	345.55	.002	342.69	.003	325.05	.002	5.36
10	.014	329.92	.007	24.14	.004	63.45	.007	62.59	.008	67.33	.008	82.42	.009	88.00

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.300	12.41	.341	22.51	.309	36.65	4.114	350.24	1.907	5.48	1.272	8.44	.625	27.53
2	.116	68.54	.108	69.21	.103	62.27	.197	278.59	.089	31.83	.113	55.23	.115	62.67
3	.024	217.46	.028	217.29	.022	207.07	.013	97.49	.021	132.04	.021	215.97	.023	227.71
4	.042	345.84	.041	355.66	.044	352.39	.050	336.28	.055	342.46	.042	346.68	.039	355.40
5	.026	89.99	.024	88.24	.021	84.91	.018	25.82	.025	51.77	.031	57.01	.030	71.02
6	.007	56.31	.010	49.40	.007	46.69	.023	148.09	.011	129.44	.036	166.66	.000	345.84
7	.009	142.68	.015	147.41	.017	145.92	.011	49.20	.010	123.59	.017	142.71	.020	169.44
8	.001	169.03	.004	305.44	.003	168.90	.015	257.47	.009	292.24	.026	327.61	.025	349.99
9	.002	53.12	.003	61.45	.002	142.61	.010	66.24	.008	73.36	.007	87.37	.003	81.68
10	.010	92.70	.010	114.94	.010	104.32	.009	153.47	.008	139.95	.006	151.36	.006	136.70

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.596	51.45	.704	68.02	.551	71.94	.630	94.14	.429	104.37	.602	93.32
2	.111	64.73	.137	65.64	.119	63.76	.149	57.47	.110	73.08	.121	65.03
3	.028	223.21	.038	227.75	.035	229.33	.036	223.15	.027	229.55	.041	221.72
4	.036	355.38	.042	3.32	.034	.15	.044	10.08	.042	16.55	.033	.21
5	.027	64.74	.037	67.79	.032	64.97	.027	61.74	.032	76.91	.027	80.41
6	.002	342.45	.007	.89	.009	339.18	.007	351.03	.011	343.47	.013	3.26
7	.019	161.34	.028	170.52	.017	152.07	.026	165.18	.019	169.43	.015	171.06
8	.016	345.31	.032	344.81	.016	340.17	.018	352.80	.010	3.98	.014	2.61
9	.002	102.45	.002	145.96	.003	203.74	.002	257.18	.001	259.68	.001	145.15
10	.005	130.42	.007	117.46	.006	110.26	.009	108.85	.008	83.62	.009	110.99

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 140 ALPHA-MCL = 6.0 PDP RUN.PT 28.06
RUN 28 ALPHA-PAR = 2.0 Q-COMP = .32435
POINT 3 SIGMA = 0. V-REF = 199.73
COMPUTED FREQUENCY = 15.44, K = .1214

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	21.943	-3.375	5.843	-.448	3.597	-.080	2.186	.310	1.248	.492	.510	.706	.147	.518
2	.124	-.537	.063	-.179	.068	-.027	.035	-.089	.007	-.122	.019	-.058	.013	-.039
3	.957	-.255	-.002	.069	.047	-.012	.020	-.013	-.014	.008	-.017	-.009	-.009	-.010
4	-.324	-.490	.043	.004	.013	-.003	-.014	-.007	.006	.007	.008	.013	-.004	.011
5	.012	.030	.004	-.014	.021	-.028	.004	.005	.010	-.008	.013	-.001	.013	-.001
6	-.230	-.372	-.027	.016	-.039	-.007	-.017	-.006	-.014	-.008	-.003	-.006	.001	-.009
7	.031	.144	.025	.011	.008	.017	-.005	.014	.005	.017	-.013	.007	-.004	.006
8	-.042	-.043	.002	-.026	.023	-.027	.030	-.016	-.003	-.012	.033	-.016	.017	-.009
9	.016	.070	.001	.013	-.007	.011	-.002	.004	-.003	.003	-.004	.003	-.004	-.001
10	-.020	.011	-.013	.002	-.007	-.001	-.008	-.002	-.007	-.004	-.005	-.002	-.003	-.002

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.338	.564	-.420	.283	-.286	.477
2	.038	.018	-.006	.004	.003	.018
3	-.007	-.010	.005	-.004	-.010	-.017
4	.002	.018	-.000	.015	-.011	.006
5	.013	-.002	.007	.008	.003	.006
6	.003	-.007	.004	-.010	.006	-.005
7	-.017	.001	-.006	-.004	-.001	-.007
8	.019	-.003	.008	.004	.017	.000
9	-.002	-.004	-.001	-.004	.001	-.001
10	-.002	-.001	.005	-.002	-.001	-.001

N	CNREAL	CNIMAG
1	1.887	.238
2	.028	-.068
3	.030	-.010
4	-.007	-.009
5	.010	-.003
6	-.016	-.008
7	-.001	.012
8	.015	-.013
9	-.002	.005
10	-.005	-.001

N	CMREAL	CMIMAG
1	.739	-.103
2	.006	-.019
3	.017	-.001
4	-.003	-.009
5	.000	-.001
6	-.007	-.000
7	.002	.004
8	-.001	-.003
9	.000	.002
10	-.001	.000

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.367	.151	2.622	-.063	-8.832	.661	-1.114	.008	-5.533	-.207
2	.073	.255	.212	-.758	-.167	-.569	.059	.228	-.052	-.037
3	-.024	-.037	-.117	-.100	-.658	-.033	-.011	-.038	-.355	-.049
4	.055	-.011	.053	-.146	.023	-.319	.046	-.022	-.032	-.014
5	.013	.041	-.051	.023	.042	.025	.007	.041	-.052	.000
6	.005	-.004	.006	.004	.041	.037	.013	.003	.031	.028
7	-.022	.002	-.043	.009	-.025	-.024	-.022	-.000	-.054	-.028
8	.007	.006	.003	.002	.020	.067	-.002	.002	.022	.030
9	.004	.006	.017	.005	-.026	-.009	.003	-.002	.006	-.006
10	-.005	.006	-.013	.009	.016	.019	.001	.007	-.001	.006

*** STABILITY PARAMETER

****
* XI = .1031 *
****

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 14C   ALPHA-MCL = 6.0   PDP RUN.PT 28.06
RUN 28   ALPHA-BAR = 2.0   Q-COMP = .32435
POINT 3   SIGMA = 0.   V-REF = 199.73
COMPUTED FREQUENCY = 15.44, K = .1214

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	22.231	351.26	5.860	355.61	3.597	358.73	2.207	8.07	1.341	21.51	.870	54.16	.536	74.12
2	.551	283.00	.189	269.36	.073	338.54	.095	291.41	.122	273.11	.061	288.13	.041	288.20
3	.990	345.08	.069	91.56	.048	345.26	.024	326.63	.016	148.62	.020	207.92	.013	226.64
4	.588	236.53	.044	5.54	.013	348.11	.015	207.56	.010	50.67	.015	58.46	.011	109.94
5	.033	68.35	.015	285.82	.035	307.91	.006	52.50	.013	319.80	.013	357.47	.013	357.01
6	.241	197.50	.032	150.19	.039	190.86	.018	200.41	.017	209.76	.007	247.33	.010	278.35
7	.147	78.02	.028	23.11	.019	63.81	.014	110.60	.018	72.70	.014	151.31	.007	120.31
8	.060	225.65	.026	274.79	.036	310.26	.034	331.25	.012	255.40	.037	334.73	.019	331.28
9	.072	77.57	.013	83.70	.012	121.77	.004	115.20	.004	132.07	.005	145.50	.004	196.76
10	.023	151.26	.017	170.10	.007	188.49	.008	195.93	.007	209.13	.005	200.72	.004	212.69

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.658	120.97	.507	146.04	.556	120.96
2	.042	25.06	.008	145.62	.019	80.49
3	.012	234.09	.006	321.81	.020	238.36
4	.018	53.20	.015	91.85	.012	150.97
5	.013	350.18	.010	49.69	.007	66.30
6	.008	290.96	.011	291.65	.009	328.20
7	.017	177.30	.007	217.14	.007	258.54
8	.019	352.58	.009	26.43	.017	.35
9	.004	245.62	.004	260.88	.001	320.77
10	.003	206.92	.005	343.18	.001	223.28

N	CN-MAG	PHIN
1	1.902	7.19
2	.074	292.45
3	.031	341.31
4	.011	232.32
5	.010	344.08
6	.018	205.36
7	.012	93.49
8	.020	319.53
9	.005	113.00
10	.005	192.62

N	CM-MAG	PHIM
1	.746	352.06
2	.020	287.24
3	.017	355.92
4	.009	250.99
5	.001	289.61
6	.007	183.40
7	.004	60.60
8	.003	255.49
9	.002	87.78
10	.001	169.43

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.397	157.66	2.623	358.63	8.857	175.72	1.114	179.57	5.536	182.14
2	.265	74.03	.787	285.64	.593	253.69	.235	75.58	.064	215.67
3	.044	237.68	.154	220.44	.659	182.84	.040	253.51	.359	187.81
4	.056	348.39	.155	289.92	.319	274.16	.051	334.54	.035	203.51
5	.043	72.55	.056	155.95	.049	30.79	.041	80.65	.052	179.47
6	.006	322.19	.007	28.63	.055	42.38	.013	11.82	.041	42.04
7	.023	174.14	.044	168.15	.034	223.57	.022	180.66	.061	206.94
8	.009	38.33	.003	32.59	.070	73.29	.003	127.36	.038	53.39
9	.007	53.41	.018	17.43	.028	198.23	.004	326.12	.009	317.30
10	.008	132.61	.015	144.70	.025	50.14	.007	81.81	.007	96.91

*** STABILITY PARAMETER

*   *
* XI =   .1031 *
*   *
****

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 142 ALPHA-MCL = 6.0 PDP RUN.PT 28.08
RUN 28 ALPHA-PAR = 2.0 C-COMP = .32292
POINT 5 SIGMA = 0. V-REF = 199.28
COMPUTED FRECUENCY = 19.04, K = .1501

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-17.664	2.501	-3.432	.409	-1.787	.057	-.856	-.137	-.231	-.221	.445	-.202	.730	-.102
2	-.116	.326	-.016	.227	-.040	.081	-.031	.136	-.006	.161	-.002	.107	-.001	.062
3	-.971	.513	.013	.040	-.059	.071	-.042	.076	-.015	.051	-.015	.050	-.020	.048
4	.346	.382	-.028	-.029	-.017	-.004	.009	.006	-.001	-.003	-.011	-.006	-.011	-.005
5	-.015	.061	-.003	.009	-.017	.023	-.003	-.007	.000	-.007	-.008	-.002	-.005	-.003
6	.166	.011	-.001	-.013	.014	.006	.003	.000	-.005	-.010	.000	.008	-.001	.007
7	.076	-.028	.007	.014	.011	.011	.010	.004	.017	.011	.012	.004	.014	.003
8	-.005	-.032	.003	-.005	.009	-.003	.002	.003	.006	.003	.005	.003	.001	.003
9	.028	-.054	.001	-.002	.001	-.002	.002	-.001	.001	-.003	.000	.001	.000	.005
10	-.012	-.028	.011	.000	.011	.003	.011	.008	.019	.006	.015	.009	.010	.012

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.015	-.001	1.051	.115	.973	.167	4.843	-.725	2.705	.177	1.985	.215	1.433	.449
2	.000	.016	.007	.007	.006	.004	.001	-.340	.055	-.070	.043	.001	.036	.020
3	-.026	.047	-.023	.048	-.021	.049	-.045	.022	-.019	.051	-.022	.028	-.022	.028
4	-.011	-.003	-.013	-.008	-.011	-.006	-.027	.010	-.021	-.007	-.026	-.006	-.018	-.014
5	-.003	-.004	-.001	.003	-.001	.001	.010	-.019	.003	-.008	.008	.002	.002	.006
6	-.002	.007	-.004	.003	-.001	.007	-.024	.014	-.016	.004	-.018	-.011	-.012	-.015
7	.016	.002	.019	.006	.017	.005	.015	-.006	.017	-.001	.024	.007	.025	.014
8	-.003	.002	-.008	-.000	-.003	.001	-.011	.010	-.009	.004	-.016	-.001	-.016	-.006
9	-.000	.008	.002	.006	.001	.007	.005	.014	.003	.010	.002	.014	-.004	.013
10	.004	.016	-.002	.021	.001	.016	-.010	.024	-.011	.020	-.024	.021	-.024	.011

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.988	.552	1.010	.603	.817	.666	.638	.803	.510	.535	.656	.764
2	.035	.028	.044	.041	.039	.031	.059	.040	.001	.046	.048	.034
3	-.017	.032	-.023	.035	-.026	.027	-.020	.043	-.018	.035	-.023	.031
4	-.017	-.014	-.015	-.019	-.011	-.016	-.013	-.018	-.003	-.015	-.009	-.013
5	.002	.005	.004	.007	-.001	.003	-.001	.006	-.004	.002	-.003	.004
6	-.010	-.009	-.013	-.019	-.004	-.009	-.008	-.013	-.002	-.009	-.001	-.004
7	.019	.009	.027	.016	.020	.010	.023	.011	.017	.007	.020	.011
8	-.005	-.005	-.007	-.008	-.005	-.004	-.003	-.006	.001	-.006	.007	-.006
9	-.001	.007	-.003	.007	-.003	.006	-.003	.004	-.004	.002	-.004	.002
10	-.006	.009	-.008	.009	-.005	.005	-.002	.007	.005	.003	.006	.004

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 142 ALPHA-MCL = 6.0 PDP RUN.PT 28.08
RUN 28 ALPHA-PAR = 2.0 Q-COMP = .32292
POINT 5 SIGMA = 0. V-REF = 199.28
COMPUTED FREQUENCY = 19.04, K = .1501

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	17.840	171.94	3.462	173.22	1.788	178.18	.867	189.11	.320	223.73	.468	335.54	.737	352.06
2	.346	109.65	.227	94.15	.090	116.05	.140	102.76	.161	92.21	.107	91.07	.062	90.82
3	1.098	152.12	.042	72.09	.092	129.58	.087	119.18	.053	106.85	.052	106.59	.052	112.89
4	.512	48.37	.040	226.12	.018	192.40	.011	35.40	.003	258.10	.012	210.48	.012	204.28
5	.063	103.78	.010	108.59	.028	125.51	.008	246.22	.007	273.84	.008	197.51	.006	211.03
6	.166	3.78	.013	267.47	.015	23.12	.003	6.58	.011	242.65	.008	87.00	.007	94.63
7	.081	339.95	.015	62.87	.015	45.21	.011	23.67	.020	34.41	.012	18.20	.014	11.41
8	.032	261.54	.006	301.26	.009	338.92	.004	54.52	.009	20.49	.006	32.67	.003	68.43
9	.061	297.75	.003	302.20	.003	291.87	.003	342.38	.003	286.30	.001	74.63	.005	89.98
10	.031	247.99	.011	2.51	.012	16.27	.014	37.83	.020	16.70	.018	29.91	.016	52.04

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.015	359.92	1.058	6.24	.987	9.76	4.897	351.48	2.711	3.74	1.997	6.16	1.502	17.40
2	.016	89.16	.008	67.60	.009	25.69	.340	270.17	.089	307.92	.043	1.84	.041	29.12
3	.054	118.96	.053	116.11	.052	114.04	.050	154.20	.054	110.56	.036	128.09	.035	128.30
4	.011	197.52	.015	209.51	.013	205.99	.029	159.10	.022	198.60	.026	192.93	.023	217.41
5	.005	232.87	.003	107.30	.001	142.22	.022	296.95	.008	293.09	.009	12.63	.006	67.41
6	.007	102.98	.005	147.38	.007	100.13	.028	149.11	.017	166.28	.021	212.05	.019	232.48
7	.016	6.23	.020	19.13	.018	16.96	.016	338.37	.017	357.71	.025	15.44	.029	29.06
8	.004	145.26	.008	161.03	.003	169.66	.019	336.44	.010	156.85	.016	182.97	.017	199.33
9	.008	91.64	.006	78.54	.007	82.92	.015	69.48	.011	72.35	.015	81.93	.013	106.27
10	.017	76.01	.021	96.29	.016	86.07	.026	112.76	.023	119.83	.032	138.68	.026	155.50

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.132	29.16	1.291	38.50	1.054	39.17	1.025	51.52	.739	46.35	1.037	49.33
2	.045	39.43	.060	42.83	.050	38.72	.071	33.67	.046	88.30	.059	35.77
3	.036	117.72	.042	123.89	.037	134.18	.047	114.98	.040	116.38	.038	126.56
4	.022	220.27	.024	231.69	.020	235.59	.022	234.93	.015	258.05	.016	235.58
5	.005	72.81	.008	62.06	.003	108.33	.006	99.66	.004	154.91	.005	122.34
6	.014	220.43	.023	236.70	.010	246.98	.015	237.94	.009	255.96	.004	255.38
7	.021	25.54	.031	30.72	.022	27.41	.025	24.94	.019	20.88	.023	29.39
8	.009	215.78	.011	226.09	.007	221.09	.007	243.44	.006	277.73	.006	273.35
9	.007	101.17	.008	112.10	.007	120.31	.005	123.04	.004	152.96	.004	154.04
10	.012	131.57	.012	133.27	.007	135.59	.007	102.44	.006	30.42	.007	36.73

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 142 ALPHA-MCL = 6.0 PDP RUN.PT 28.08
RUN 28 ALPHA-BAR = 2.0 Q-COMP = .32292
POINT 5 SIGMA = 0. V-REF = 199.28
COMPUTED FREQUENCY = 19.04, K = .1501

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.149		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	22.507	-3.227	6.144	-.232	3.772	.158	2.289	.586	1.219	.772	.566	1.006	.088	.768
2	.118	-.666	.071	-.297	.083	-.080	.067	-.116	.041	-.132	.046	-.066	.040	-.031
3	.926	-.492	-.032	.010	.037	-.043	.021	-.048	-.001	-.019	-.009	-.015	-.005	-.022
4	-.367	-.372	.007	.022	-.008	-.002	-.027	-.020	-.016	-.011	-.004	-.013	-.000	-.011
5	.025	-.081	.006	-.017	.025	-.021	.006	.013	.001	.012	.012	.010	.004	.006
6	-.189	.003	-.016	.017	-.032	-.017	-.015	-.015	-.005	.001	-.013	-.027	-.003	-.016
7	-.061	.022	.010	-.014	.013	-.004	.015	.010	.002	-.003	.015	.012	.006	.007
8	-.006	.042	-.017	.009	-.024	.002	-.018	-.008	-.016	-.009	-.013	-.011	-.006	-.007
9	-.023	.068	.002	.012	.001	.017	-.006	.013	-.002	.010	-.003	.006	-.003	.001
10	.002	.052	-.022	.020	-.035	.018	-.034	.002	-.027	.004	-.024	.000	-.015	-.007

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	-.377	.804	-.541	.420	-.317	.597
2	.059	.023	-.002	.038	.040	.031
3	.006	-.004	.006	-.012	-.001	-.017
4	-.002	-.015	.010	-.007	.002	-.007
5	.002	.010	-.003	-.001	-.001	.003
6	-.006	-.020	.002	-.012	.000	-.011
7	.007	.009	-.001	.000	.003	.006
8	-.000	-.009	.009	-.005	.004	-.006
9	-.003	-.004	-.006	-.006	-.005	-.005
10	-.006	-.009	.008	-.017	.004	-.012

N	CNREAL	CNIMAG
1	1.939	.468
2	.051	-.087
3	.031	-.035
4	-.017	-.020
5	.007	.001
6	-.015	-.012
7	.006	.004
8	-.010	-.004
9	-.003	.007
10	-.018	.002

N	CMREAL	CMIMAG
1	.771	-.093
2	.005	-.029
3	.015	-.009
4	-.007	-.005
5	.002	-.002
6	-.005	.001
7	-.000	-.001
8	-.002	.001
9	-.000	.003
10	-.003	.003

*** STABILITY PARAMETER

```
*                *
* XI =    .0935  *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.483	.041	3.425	-.081	-9.196	.396	-.378	-.175	-5.192	-.403
2	.015	.163	.161	-.802	-.159	-.658	-.001	.163	-.065	-.070
3	-.027	.052	-.121	.053	-.610	.107	-.022	.054	-.368	.038
4	-.028	-.003	-.044	-.093	-.018	-.323	-.024	-.009	-.037	-.032
5	-.008	.003	-.059	.023	.023	.030	-.005	.005	-.078	.032
6	-.014	-.007	-.011	.001	.026	.018	-.004	.003	-.015	.003
7	.018	.009	.027	.015	.008	.030	.016	.010	.008	.020
8	-.007	.006	.006	-.001	-.030	.025	.002	.005	-.006	.016
9	.005	.007	.006	-.001	-.009	-.006	.002	.000	.010	.001
10	-.006	.017	.005	.034	.006	.021	.005	.015	.003	.021

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 142 ALPHA-MCL = 6.0 PDP RUN.PT 28.06
RUN 28 ALPHA-BAR = 2.0 Q-COMP = .32292
POINT 5 SIGMA = 0. V-REF = 199.28
COMPUTED FREQUENCY = 19.04, K = .1501

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	22.737	351.84	6.148	357.84	3.775	2.40	2.362	14.37	1.443	32.36	1.154	60.65	.773	83.49
2	.676	260.09	.305	263.48	.115	316.15	.134	299.81	.138	287.10	.061	304.87	.050	322.52
3	1.048	332.02	.034	162.03	.057	310.52	.053	293.09	.019	266.33	.017	240.39	.022	255.83
4	.523	225.37	.023	73.20	.009	194.01	.034	216.78	.019	214.39	.013	251.42	.011	268.51
5	.084	287.16	.018	290.67	.033	319.57	.014	66.73	.012	84.97	.015	40.33	.008	55.98
6	.189	179.02	.023	132.89	.036	208.41	.021	226.58	.006	172.89	.030	244.21	.017	258.76
7	.065	160.34	.018	305.70	.014	342.30	.018	32.32	.003	307.39	.019	38.62	.010	51.15
8	.042	97.91	.016	143.31	.025	174.19	.020	205.22	.018	208.36	.017	221.12	.009	229.48
9	.071	108.83	.013	81.77	.017	86.31	.015	114.51	.010	102.88	.007	117.37	.004	162.39
10	.052	88.20	.030	138.63	.039	153.27	.035	176.16	.027	172.62	.024	179.76	.017	206.64

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.888	115.11	.685	142.23	.676	117.96
2	.064	21.42	.038	92.49	.050	37.51
3	.006	324.48	.013	295.33	.017	264.96
4	.015	262.12	.012	325.73	.008	288.28
5	.010	78.18	.003	199.97	.004	114.79
6	.021	251.95	.012	260.11	.011	270.71
7	.011	51.55	.001	171.94	.007	66.09
8	.009	269.11	.010	327.75	.007	299.90
9	.005	236.73	.008	226.58	.007	224.61
10	.011	238.41	.019	293.94	.013	290.81

N	CN-MAG	PHIN
1	1.995	13.57
2	.101	300.57
3	.047	312.06
4	.026	228.93
5	.007	7.44
6	.019	217.07
7	.007	34.29
8	.010	203.24
9	.008	114.31
10	.018	174.58

N	CM-MAG	PHIM
1	.777	353.09
2	.029	280.39
3	.017	329.15
4	.008	214.26
5	.003	302.17
6	.005	166.64
7	.001	261.00
8	.003	148.00
9	.003	90.59
10	.004	133.10

*** STABILITY PARAMETER

*** XI = .0935 ***

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.465	4.38	3.426	358.64	8.206	177.23	.417	204.85	5.207	184.44
2	.164	84.80	.318	281.34	.677	256.38	.163	90.48	.095	227.39
3	.059	117.12	.132	156.36	.619	170.04	.059	111.62	.370	174.17
4	.028	180.81	.103	244.76	.324	266.88	.025	201.95	.049	221.30
5	.009	159.90	.063	158.18	.038	53.09	.007	132.49	.085	157.56
6	.015	205.39	.011	175.90	.032	33.97	.005	142.53	.015	168.28
7	.020	25.96	.031	29.84	.031	74.55	.019	32.00	.021	67.93
8	.009	139.41	.006	354.87	.025	90.08	.005	70.11	.017	112.47
9	.009	54.06	.006	351.58	.011	212.65	.002	1.44	.010	3.48
10	.018	108.01	.035	81.77	.021	74.80	.015	71.39	.021	81.76

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 150 ALPHA-MCL = 6.0 PDP RUN.PT 30.01
RUN 30 ALPHA-BAR = 2.0 Q-COMP = .32578
POINT 1 SIGMA = 45. V-REF = 200.16
COMPUTED FRECUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

N	X = .012-UPPER CPREAL	CPIMAG	.062-UPPER CPREAL	CPIMAG	.148-UPPER CPREAL	CPIMAG	.261-UPPER CPREAL	CPIMAG	.392-UPPER CPREAL	CPIMAG	.530-UPPER CPREAL	CPIMAG	.661-UPPER CPREAL	CPIMAG
1	-22.825	-8.510	-5.561	-1.627	-3.263	-.766	-2.000	-.218	-1.357	.318	-.867	.869	-.433	1.214
2	-.061	-.195	-.296	.173	-.125	.023	-.119	.010	-.150	.053	-.157	.123	-.109	.113
3	-.836	-1.959	.065	.013	.072	.023	.051	-.009	.053	-.010	.091	.042	.084	.051
4	-.241	.087	.013	-.002	.021	-.015	-.013	-.015	-.067	-.002	-.033	-.020	-.027	-.026
5	.166	-.308	.041	.143	.059	.087	.049	.084	.052	.154	.048	.143	.046	.129
6	-.400	-.305	-.008	-.030	.009	-.034	-.039	-.042	-.002	-.037	.008	-.032	.004	-.030
7	.068	.090	.036	.054	.056	.033	.037	.052	.037	.052	.052	.038	.052	.041
8	-.137	-.320	-.048	-.025	-.051	-.041	-.050	-.039	-.032	-.022	-.038	-.025	-.038	-.023
9	-.143	.025	-.002	.008	.003	.009	-.016	.020	.004	.014	.002	.017	.001	.015
10	.057	-.119	.011	-.012	.015	-.025	.010	-.008	.009	-.008	.008	-.011	.007	-.014

N	X = .774-UPPER CPREAL	CPIMAG	.860-UPPER CPREAL	CPIMAG	.910-UPPER CPREAL	CPIMAG	.012-LOWER CPREAL	CPIMAG	.062-LOWER CPREAL	CPIMAG	.148-LOWER CPREAL	CPIMAG	.261-LOWER CPREAL	CPIMAG
1	-.232	1.203	-.141	1.107	-.135	.997	6.488	3.171	3.441	2.190	2.208	1.635	1.417	1.325
2	-.075	.077	-.067	.040	-.055	.010	.624	-.588	.154	-.345	-.001	-.090	-.054	-.067
3	.087	.046	.091	.044	.093	.040	.158	.051	-.069	.019	.118	.056	.114	.049
4	-.027	-.022	-.026	-.027	-.026	-.025	-.026	-.028	-.040	.052	-.016	-.016	-.020	-.014
5	.041	.126	.041	.127	.047	.121	.045	.123	.068	.127	.045	.118	.039	.112
6	.005	-.027	.008	-.028	.000	-.031	.020	-.028	.007	-.027	.003	-.019	.003	-.016
7	.052	.042	.059	.048	.061	.044	.084	.014	.067	.027	.064	.032	.058	.041
8	-.033	-.025	-.034	-.024	-.035	-.021	-.042	-.006	-.049	-.017	-.043	-.024	-.035	-.028
9	.002	.014	.008	.018	.005	.017	.019	.012	.017	.015	.013	.018	.012	.017
10	.006	-.009	.008	-.011	.006	-.012	-.001	-.005	.003	-.014	.003	-.016	.004	-.016

N	X = .392-LOWER CPREAL	CPIMAG	.530-LOWER CPREAL	CPIMAG	.661-LOWER CPREAL	CPIMAG	.774-LOWER CPREAL	CPIMAG	.860-LOWER CPREAL	CPIMAG	.910-LOWER CPREAL	CPIMAG
1	.816	.989	.699	1.062	.413	.810	.061	.733	-.008	.642	-.371	.591
2	-.083	-.054	-.123	-.065	-.133	-.016	-.156	.017	-.052	-.044	-.154	-.076
3	.105	.046	.120	.049	.136	.072	.099	.029	.089	.027	.099	.054
4	-.017	-.007	-.021	-.013	.007	-.024	-.044	-.000	-.007	-.020	-.015	-.020
5	.040	.105	.048	.134	.036	.106	.048	.124	.044	.110	.045	.111
6	-.001	-.019	-.001	-.025	-.003	-.018	-.008	-.025	.007	-.025	.001	-.022
7	.055	.039	.066	.051	.061	.048	.062	.053	.059	.047	.053	.042
8	-.034	-.024	-.035	-.071	-.031	-.025	-.036	-.030	-.030	-.023	-.028	-.021
9	.008	.016	.014	.025	.014	.015	.009	.026	.007	.021	.012	.020
10	.004	-.012	.005	-.015	-.002	-.014	.011	-.015	.008	-.011	.003	-.010

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 150 ALPHA-MCL = 6.0 PDP RUN.PT 30.01
RUN 30 ALPHA-FAR = 2.0 Q-COMP = .32578
POINT 1 SIGMA = 45. V-REF = 200.16
COMPUTED FREQUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	24.360	200.45	5.794	196.31	3.371	193.14	2.012	186.22	1.394	166.82	1.227	134.93	1.289	109.64
2	.204	252.67	.343	149.57	.127	169.44	.120	175.21	.159	160.60	.200	141.92	.157	133.89
3	2.130	246.88	.067	11.45	.076	17.69	.052	350.27	.053	349.56	.101	24.88	.098	31.10
4	.256	160.11	.013	351.70	.026	325.34	.019	229.08	.067	181.68	.039	210.43	.037	223.36
5	.355	298.37	.149	74.13	.105	55.98	.097	59.64	.162	71.23	.151	71.61	.137	70.52
6	.503	217.35	.031	255.95	.035	254.58	.057	227.19	.037	266.37	.033	284.26	.030	276.96
7	.113	52.83	.065	56.02	.065	30.77	.064	54.37	.064	54.86	.065	36.21	.066	38.55
8	.346	246.78	.054	207.14	.066	218.75	.063	217.60	.038	214.25	.045	213.86	.045	211.55
9	.145	169.92	.008	104.49	.009	73.02	.026	129.19	.014	75.85	.017	82.41	.015	84.62
10	.137	299.20	.017	312.48	.029	300.10	.013	320.98	.012	317.39	.014	304.55	.016	297.27

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.225	100.91	1.116	97.26	1.006	97.69	7.222	26.05	4.079	32.47	2.748	36.51	1.940	43.07
2	.108	134.12	.079	149.17	.066	171.39	.857	316.71	.377	294.06	.090	269.27	.086	231.51
3	.099	27.75	.101	25.65	.101	23.23	.166	17.90	.072	164.32	.131	25.53	.124	23.47
4	.035	218.49	.037	226.33	.037	223.88	.032	226.99	.066	127.88	.023	225.75	.025	214.60
5	.132	71.73	.134	72.24	.129	68.69	.131	70.10	.144	61.80	.126	69.14	.119	70.82
6	.027	281.05	.029	286.62	.031	270.84	.035	305.30	.028	283.98	.019	278.50	.016	280.53
7	.067	38.66	.076	39.05	.075	35.81	.085	9.46	.072	21.76	.072	26.71	.071	35.21
8	.042	216.78	.042	215.41	.041	211.79	.043	167.59	.051	199.46	.050	209.05	.045	219.32
9	.014	82.43	.025	65.19	.018	72.80	.022	32.32	.023	42.48	.022	52.74	.020	55.30
10	.012	312.30	[illegible]	304.53	.014	296.12	.005	259.64	.014	284.38	.016	281.74	.017	283.84

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.284	50.39	1.271	56.62	.909	63.01	.735	85.23	.642	90.67	.698	122.10
2	.099	213.21	.139	207.82	.134	186.65	.156	173.62	.068	220.06	.172	206.27
3	.114	23.49	.129	22.34	.153	27.85	.103	16.57	.093	16.75	.113	28.45
4	.018	202.49	.025	211.81	.026	287.05	.044	180.08	.021	252.01	.025	234.15
5	.112	69.33	.142	70.23	.112	70.98	.133	68.83	.118	68.04	.120	67.93
6	.019	267.81	.025	267.82	.018	259.17	.027	253.14	.026	286.09	.022	272.03
7	.067	34.12	.084	37.77	.078	38.28	.082	40.66	.076	38.55	.068	38.79
8	.042	214.46	.049	218.50	.040	219.16	.047	219.93	.038	217.67	.035	216.42
9	.016	63.59	.029	60.50	.020	46.17	.027	71.61	.022	70.72	.024	59.52
10	.012	287.67	.016	288.81	.014	260.79	.019	306.45	.014	307.04	.010	285.28

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 150 ALPHA-MCL = 6.0 PDP RUN.PT 30.01
RUN 30 ALPHA-BAR = 2.0 Q-COMP = .32578
POINT 1 SIGMA = 45. V-REF = 203.16
COMPUTED FREQUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	29.314	11.681	9.002	3.617	5.492	2.401	3.417	1.543	2.176	.671	1.566	.193	.846	-.405
2	.685	-.393	.450	-.518	.124	-.114	.066	-.077	.067	-.107	.034	-.188	-.025	-.129
3	.994	2.010	-.134	.006	.046	.033	.063	.058	.052	.055	.028	.007	.051	.021
4	.215	-.115	-.053	.054	-.037	-.002	-.008	.000	.050	-.005	.012	.006	.035	.001
5	-.122	.431	.027	-.017	-.014	.031	-.010	.028	-.013	-.049	.000	-.009	-.009	-.024
6	.420	.277	.014	.003	.012	.015	.042	.026	.002	.018	-.009	.007	-.007	.012
7	.016	-.076	.030	-.027	.008	-.001	.021	-.011	.019	-.015	.014	.013	.009	.007
8	.095	.315	-.002	.008	.008	.017	.016	.010	-.003	-.002	-.001	-.005	.007	-.002
9	.162	-.014	.019	.007	.011	.009	.028	-.003	.004	.002	.012	.008	.012	.000
10	-.068	.115	-.008	-.001	-.011	.009	-.006	-.008	-.005	-.004	-.003	-.004	-.009	.000

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.293	-.471	.134	-.466	-.236	-.406
2	-.081	-.060	.015	-.084	-.088	-.086
3	.012	-.017	-.002	-.017	.006	.014
4	-.016	.022	.019	.006	.012	.005
5	.007	-.002	.004	-.017	-.002	-.009
6	-.013	.001	-.001	.002	.000	.009
7	.010	.011	.000	-.001	-.008	-.002
8	-.003	-.005	.004	.001	.007	.001
9	.007	.012	-.001	.003	.007	.003
10	.003	-.006	.001	-.000	-.003	.003

N	CNREAL	CNIMAG
1	3.130	1.015
2	.068	-.143
3	.053	.083
4	.011	.003
5	-.007	.006
6	.017	.019
7	.012	-.004
8	.007	.012
9	.016	.004
10	-.007	.002

N	CMREAL	CMIMAG
1	1.015	.476
2	.037	-.020
3	.013	.034
4	-.000	-.001
5	-.002	.008
6	.009	.005
7	.002	-.003
8	.002	.006
9	.004	-.000
10	-.002	.002

*** STABILITY PARAMETER

```
*                 *
* XI =    -.4757 *
*                 *
*******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.005	.946	2.561	-.198	-11.122	-2.735	-1.676	.089	-4.233	-6.097
2	-.110	.042	-.742	-.412	.414	-1.012	-.225	.054	.399	.228
3	.108	.140	.221	.306	-.569	-.349	.117	.065	.489	.029
4	-.017	-.019	-.025	-.114	.293	-.374	-.008	-.017	-.094	.055
5	-.034	.176	.057	.183	.115	.177	.049	.160	.011	.236
6	.021	-.024	.040	-.041	-.061	-.059	.010	-.033	.009	-.063
7	.019	.086	.073	.059	.143	.065	.057	.052	.042	.108
8	.006	-.094	-.083	-.047	-.147	.001	-.050	-.044	-.052	-.039
9	-.033	.031	.020	.035	-.001	.005	.004	.022	.034	.035
10	.033	-.001	-.014	.003	-.054	-.039	.011	-.019	.037	-.010

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 150 ALPHA-PCL = 6.0 PCP JN.PT 30.01
RUN 30 ALPHA-FAR = 2.0 Q-COMP = .32578
POINT 1 SIGMA = 45. V-REF = 200.16
COMPUTED FREQUENCY = 9.05, K = .0710

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	31.555	21.73	9.778	22.98	5.994	23.61	3.749	24.29	2.277	17.14	1.578	7.02	.938	334.44
2	.789	330.16	.686	310.98	.166	317.43	.102	310.36	.126	302.05	.191	280.25	.131	259.17
3	2.242	63.68	.134	177.38	.057	36.02	.036	42.74	.076	46.52	.029	13.59	.055	22.07
4	.244	331.78	.075	134.61	.037	192.65	.008	176.73	.050	354.41	.014	27.92	.035	2.07
5	.448	105.76	.032	328.69	.034	114.08	.030	109.39	.050	255.47	.009	272.99	.025	248.48
6	.503	33.39	.015	11.08	.019	50.08	.049	31.75	.018	84.84	.011	142.86	.014	120.18
7	.078	281.75	.041	318.43	.006	352.07	.023	332.27	.024	321.84	.019	43.05	.011	36.66
8	.329	73.20	.008	92.54	.019	64.91	.019	33.46	.003	216.67	.005	260.66	.008	348.33
9	.162	355.21	.020	21.12	.014	39.17	.028	353.22	.005	22.71	.014	34.56	.012	1.87
10	.133	120.56	.008	167.83	.015	140.73	.010	233.92	.306	218.91	.034	232.38	.009	178.73

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.554	301.90	.465	256.91	.473	239.82
2	.100	216.60	.085	200.78	.123	224.17
3	.020	304.92	.017	261.96	.015	66.31
4	.027	126.90	.020	18.78	.013	23.72
5	.007	346.69	.018	261.42	.010	258.17
6	.013	173.42	.003	111.86	.009	87.85
7	.015	48.51	.001	303.91	.008	190.92
8	.006	242.59	.004	12.77	.007	6.95
9	.014	60.32	.003	110.91	.006	26.46
10	.006	295.26	.001	358.32	.004	142.85

N	CN-MAG	PHIN
1	3.291	17.96
2	.158	295.43
3	.098	57.41
4	.012	16.44
5	.009	137.94
6	.026	48.42
7	.013	341.16
8	.013	60.36
9	.016	12.90
10	.007	163.13

N	CM-MAG	PHIM
1	1.121	25.10
2	.042	332.09
3	.036	68.27
4	.001	257.72
5	.009	103.10
6	.010	29.55
7	.004	305.65
8	.006	73.94
9	.004	355.24
10	.002	132.93

*** STABILITY PARAMETER

```
*                *
* XI =   -.4757 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	.946	69.70	2.569	355.58	11.453	193.81	1.078	176.96	7.422	235.23
2	.117	159.15	.849	209.04	1.093	292.26	.232	166.43	.460	29.72
3	.177	52.28	.377	54.19	.666	211.55	.133	26.92	.490	3.44
4	.026	227.11	.116	257.54	.475	308.04	.019	244.36	.109	149.91
5	.179	100.92	.191	72.77	.211	57.03	.168	73.01	.236	87.36
6	.032	311.46	.057	314.30	.085	223.78	.035	287.30	.064	277.76
7	.088	77.34	.093	38.44	.157	24.39	.077	42.32	.116	68.74
8	.094	273.81	.096	209.31	.147	179.58	.066	221.82	.065	216.88
9	.045	137.00	.040	60.66	.005	103.38	.022	79.89	.049	45.82
10	.034	357.66	.014	167.36	.066	216.13	.022	300.41	.039	344.79

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 152 ALPHA-MCL = 6.0 PDP RUN.PT 30.03
RUN 30 ALPHA-PAR = 2.0 Q-COMP = .32506
POINT 3 SIGMA = 45. V-REF = 199.93
COMPUTED FREQUENCY = 15.44, K = .1213

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-22.649	-6.334	-5.601	-.741	-3.344	-.121	-2.109	.288	-1.515	.769	-1.038	1.296	-.566	1.605
2	.042	-.027	-.317	.205	-.219	.005	-.237	-.021	-.278	.020	-.277	.098	-.223	.061
3	-1.087	-1.562	.104	-.004	.097	.306	.057	-.039	.061	-.000	.108	.030	.110	.039
4	-.270	.270	-.005	.096	.012	.086	-.014	.104	-.034	.150	-.005	.125	-.004	.115
5	-.017	-.399	-.012	-.028	-.020	-.079	-.035	-.066	.000	-.030	-.006	-.037	-.007	-.039
6	-.213	-.024	.027	.005	.005	-.000	-.027	.016	-.012	-.001	-.001	-.009	-.007	-.007
7	.105	.059	.036	.012	.031	-.005	.026	.014	.025	.007	.020	-.003	.021	.006
8	-.039	.022	.017	.054	-.004	.042	-.005	.039	.011	.035	-.001	.034	-.001	.028
9	-.075	.070	-.006	-.003	-.005	-.007	-.009	.000	-.010	-.015	-.008	-.011	-.010	-.013
10	.005	.033	-.002	.005	-.004	-.006	.004	-.004	.002	-.008	-.001	-.010	.001	-.010

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.410	1.606	-.746	1.563	-.343	1.478	6.090	3.063	3.089	2.514	1.919	2.049	1.123	1.842
2	-.195	.023	-.225	-.010	-.206	-.025	.236	-.737	-.159	-.393	-.197	-.171	-.232	-.134
3	.103	.032	.108	.033	.106	.022	.113	.043	.019	.100	.123	.024	.117	.022
4	-.007	.114	-.006	.121	.003	.115	.039	.123	.048	.151	.016	.119	.000	.114
5	-.003	-.034	-.004	-.033	.001	-.033	-.020	-.040	-.019	-.048	-.014	-.035	-.010	-.033
6	-.009	-.005	-.011	-.009	-.007	-.011	-.044	-.026	-.032	-.014	-.018	-.019	-.012	-.017
7	.022	.007	.012	.006	.019	.007	-.013	.005	-.001	.007	-.005	.007	-.003	.002
8	.003	.027	.004	.023	.007	.025	.005	.006	.007	.018	.016	.019	.010	.027
9	-.010	-.014	-.010	-.019	-.010	-.017	-.011	-.025	-.013	-.021	-.014	-.019	-.011	-.022
10	.001	-.011	.007	-.014	-.001	-.011	.003	-.024	.002	-.016	.006	-.012	.007	-.014

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.564	1.533	.379	1.794	.174	1.456	-.245	1.489	-.386	1.264	-.558	1.399
2	-.229	-.098	-.297	-.155	-.252	-.064	-.282	-.004	-.227	-.093	-.269	-.044
3	.137	.019	.125	.020	.133	.016	.103	.019	.085	.009	.110	.021
4	.010	.114	.010	.140	.010	.106	.014	.148	.012	.115	.009	.111
5	-.010	-.033	-.006	-.040	-.013	-.032	-.003	-.036	-.009	-.038	-.004	-.034
6	-.009	-.011	-.009	-.014	-.006	-.009	-.002	-.011	-.002	-.012	-.004	-.013
7	.004	.002	.002	-.000	.006	.003	.006	.002	.007	-.001	.013	-.002
8	.010	.021	.017	.027	.011	.025	.012	.029	.009	.022	.009	.027
9	-.011	-.015	-.015	-.020	-.014	-.019	-.015	-.016	-.009	-.015	-.008	-.013
10	.004	-.005	.005	-.010	.002	-.005	.003	-.009	.002	-.009	.001	-.008

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 152 ALPHA-MCL = 6.0 PDP RUN.PT 30.03
RUN 30 ALPHA-PAR = 2.0 Q-COMP = .32506
POINT 3 SIGMA = 45. V-REF = 199.93
COMPUTED FREQUENCY = 15.44, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	23.516	195.62	5.650	167.54	3.346	182.08	2.129	172.22	1.699	153.11	1.601	128.69	1.702	109.42
2	.050	327.37	.377	147.05	.219	178.63	.238	185.03	.279	175.80	.294	160.55	.231	164.67
3	1.902	235.16	.104	357.59	.096	3.74	.057	350.67	.061	359.60	.112	15.72	.116	19.39
4	.382	135.06	.096	90.04	.087	82.14	.105	97.64	.154	102.87	.125	92.38	.115	92.20
5	.399	267.51	.030	247.27	.073	253.94	.075	241.97	.030	270.45	.037	261.47	.040	260.23
6	.214	186.31	.027	10.65	.005	357.01	.031	148.74	.012	184.25	.009	262.49	.010	227.15
7	.120	29.15	.038	18.35	.031	351.31	.029	28.51	.026	15.38	.020	351.61	.021	15.02
8	.045	150.96	.055	77.24	.042	95.08	.039	96.67	.036	73.05	.034	90.99	.028	92.02
9	.102	136.85	.007	204.66	.008	234.26	.009	178.03	.018	236.04	.014	236.11	.017	234.26
10	.034	82.10	.006	115.56	.007	239.40	.005	314.06	.009	284.59	.010	264.03	.010	275.24

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.657	104.33	1.601	102.48	1.517	103.07	6.817	26.70	3.983	39.13	2.808	46.88	2.157	58.63
2	.196	173.26	.205	162.86	.210	136.94	.774	287.76	.425	247.93	.261	220.90	.268	210.08
3	.108	17.28	.113	16.72	.108	11.53	.121	20.72	.102	79.33	.126	11.06	.120	10.70
4	.115	93.74	.121	92.81	.115	88.52	.129	72.26	.158	72.35	.120	82.25	.114	89.82
5	.034	264.52	.033	263.19	.033	271.42	.044	243.27	.052	248.43	.038	248.99	.035	253.10
6	.010	210.00	.014	216.97	.013	236.09	.052	210.49	.035	203.85	.026	226.33	.021	235.31
7	.023	15.45	.014	24.73	.020	21.73	.014	158.39	.008	99.95	.008	128.28	.004	147.43
8	.027	84.32	.024	76.11	.026	75.07	.008	50.79	.019	68.59	.025	50.56	.029	69.74
9	.017	235.66	.022	241.31	.019	240.01	.027	246.90	.024	239.05	.024	232.94	.025	243.83
10	.011	272.94	.014	278.55	.011	265.15	.024	276.49	.016	278.72	.014	294.37	.016	296.36

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.633	69.60	1.824	78.00	1.466	83.17	1.509	99.33	1.322	106.99	1.546	111.75
2	.249	213.24	.315	199.51	.260	194.27	.282	180.80	.245	202.23	.273	189.22
3	.109	10.15	.127	8.92	.134	6.73	.104	10.35	.086	6.08	.112	10.53
4	.114	85.14	.141	66.07	.106	84.83	.149	84.42	.116	84.02	.111	85.42
5	.035	252.58	.041	261.88	.034	247.31	.037	264.56	.039	256.44	.034	263.70
6	.014	233.32	.017	239.43	.010	235.18	.011	257.37	.012	259.32	.014	250.99
7	.005	21.78	.002	357.29	.007	23.96	.006	15.27	.007	351.11	.013	350.54
8	.023	65.18	.030	63.58	.027	66.49	.032	66.84	.023	67.94	.028	72.12
9	.019	235.01	.025	233.21	.023	234.06	.022	227.99	.017	240.59	.015	240.58
10	.009	293.04	.011	297.56	.005	292.11	.010	287.22	.010	280.49	.008	279.01

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 152 ALPHA-MCL = 6.0 PDP RUN.PT 30.03
RUN 30 ALPHA-PAR = 2.0 Q-COMP = .32506
POINT 3 SIGMA = 45. V-REF = 199.93
COMPUTED FREQUENCY = 15.44, K = .1213

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	28.739	9.397	8.690	3.254	5.263	2.171	3.232	1.554	2.079	.765	1.417	.487	.740	-.149
2	.194	-.710	.157	-.599	.021	-.176	.005	-.113	.049	-.119	-.019	-.203	-.029	-.125
3	1.200	1.604	-.085	.105	.026	.018	.061	.032	.046	.020	.018	-.011	.023	-.023
4	.310	-.147	.048	.055	.004	.032	.014	.009	.044	-.036	.015	.015	.014	-.009
5	-.003	.359	-.007	-.021	.007	.035	.025	.033	-.011	-.004	-.000	-.003	-.006	.008
6	.168	-.003	-.058	-.019	-.023	-.019	.015	-.034	.003	-.011	-.007	-.006	.001	-.001
7	-.118	-.053	-.037	-.005	-.036	.011	-.029	-.012	-.020	-.005	-.018	.003	-.014	-.003
8	.045	-.015	-.005	-.036	.019	-.023	.014	-.012	-.001	-.014	.014	-.007	.012	-.003
9	.064	-.095	-.006	-.018	-.009	-.012	-.002	-.022	-.000	-.000	-.008	-.009	-.004	-.005
10	-.002	-.057	.005	-.021	.009	-.006	.003	-.010	.001	-.000	.006	.000	.001	.005

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.166	-.117	-.040	-.299	-.215	-.079
2	-.087	-.027	-.022	-.082	-.061	-.018
3	-.000	-.013	-.023	-.023	.004	-.001
4	.022	.034	.018	-.006	.006	-.004
5	-.000	-.002	-.005	-.005	-.005	-.001
6	.006	-.006	.009	-.003	.003	-.002
7	-.016	-.006	-.005	-.007	-.005	-.010
8	.010	.002	.003	-.001	.002	.002
9	-.005	-.002	.002	.004	.002	.003
10	.002	.002	-.000	.004	.002	.002

N	CNREAL	CNIMAG
1	2.978	1.043
2	.005	-.163
3	.052	.058
4	.028	.002
5	.000	.017
6	.002	-.011
7	-.023	-.005
8	.009	-.010
9	-.001	-.010
10	.003	-.004

N	CMREAL	CMIMAG
1	.991	.386
2	.015	-.034
3	.019	.030
4	.006	-.000
5	.001	.007
6	-.000	-.002
7	-.004	-.000
8	.001	-.003
9	.000	-.003
10	.000	-.002

*** STABILITY PARAMETER

```
*                 *
* XI =     -.3861 *
*                 *
*******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.522	1.542	2.184	.754	-11.022	-1.461	-1.810	.708	-4.439	-5.318
2	-.314	-.129	-.877	-.573	.243	-.842	-.331	.025	.155	.209
3	.115	.117	.274	.167	-.623	-.286	.141	.050	.589	-.052
4	-.111	.099	-.012	.094	.210	-.209	-.008	.132	-.118	.210
5	.026	-.037	-.041	-.001	.001	-.122	-.014	-.052	.004	.041
6	-.019	-.023	-.032	-.024	.066	.006	-.003	-.005	-.012	-.012
7	.036	.014	-.001	-.003	.074	.052	.026	.008	-.021	.012
8	-.062	.015	.008	.033	-.043	.096	.006	.045	.028	.068
9	.034	-.013	-.030	-.034	.012	-.003	-.011	-.013	-.003	-.034
10	.025	-.006	.011	-.014	-.044	.027	.001	-.009	-.000	-.017

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 152 ALPHA-MCL = 6.0 PDP RUN.PT 30.03
RUN 30 ALPHA-RAR = 2.0 Q-COMP = .32506
POINT 3 SIGMA = 45. V-REF = 199.93
COMPUTED FREQUENCY = 15.44, K = .1213

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	30.237	18.11	9.280	20.53	5.693	22.42	3.586	25.67	2.215	20.19	1.499	18.98	.755	348.60
2	.736	285.26	.619	264.70	.178	276.94	.113	272.50	.128	292.56	.234	264.61	.129	256.88
3	2.003	53.21	.135	128.96	.031	34.48	.068	27.41	.050	23.04	.021	328.97	.033	315.60
4	.343	334.63	.073	48.71	.033	82.55	.017	33.05	.057	320.82	.021	45.12	.017	327.11
5	.359	90.43	.022	250.02	.035	79.22	.041	52.53	.011	198.20	.003	266.56	.010	129.79
6	.168	359.10	.061	198.06	.030	219.19	.037	293.71	.011	286.79	.009	218.45	.001	313.49
7	.130	234.22	.038	166.92	.038	162.66	.031	202.49	.021	193.92	.018	171.03	.015	191.44
8	.047	341.01	.036	261.81	.030	310.61	.019	321.05	.014	266.38	.016	332.54	.012	345.20
9	.114	303.92	.019	251.25	.015	232.22	.023	264.84	.000	181.89	.012	229.92	.006	233.53
10	.057	268.12	.022	263.03	.011	325.27	.011	287.27	.001	359.12	.006	.42	.005	77.26

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.203	324.83	.301	262.30	.229	200.06
2	.091	197.30	.065	255.26	.064	196.75
3	.013	269.45	.033	225.62	.005	346.24
4	.040	56.66	.019	341.61	.007	324.96
5	.002	265.07	.007	223.91	.005	186.53
6	.009	315.39	.010	341.10	.003	326.67
7	.017	199.59	.009	233.31	.011	241.09
8	.010	11.90	.003	336.45	.003	41.44
9	.005	201.40	.004	64.19	.004	57.76
10	.003	41.61	.004	94.22	.003	47.59

N	CN-MAG	PHIN
1	3.156	19.29
2	.103	271.63
3	.078	48.11
4	.029	4.84
5	.017	89.33
6	.011	278.25
7	.023	191.78
8	.013	314.12
9	.010	261.58
10	.005	309.62

N	CM-MAG	PHIM
1	1.063	21.29
2	.037	294.07
3	.036	58.63
4	.006	358.12
5	.007	82.15
6	.002	269.72
7	.004	183.50
8	.003	289.11
9	.003	279.24
10	.002	278.96

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.628	108.70	2.310	19.04	11.119	187.55	1.943	158.64	6.927	230.15
2	.339	262.42	1.048	213.15	.877	286.10	.332	175.72	.260	53.39
3	.164	45.56	.321	31.45	.685	204.64	.149	19.54	.592	354.91
4	.149	138.35	.095	97.14	.296	315.21	.132	93.66	.241	119.45
5	.046	304.79	.041	181.15	.122	270.70	.054	254.75	.041	64.02
6	.030	230.86	.040	216.49	.066	5.59	.006	243.42	.017	224.65
7	.015	66.25	.003	251.35	.090	34.93	.027	17.03	.024	149.58
8	.063	166.27	.034	76.98	.105	114.19	.046	82.61	.073	67.36
9	.036	338.91	.046	229.06	.012	346.20	.017	231.44	.034	264.35
10	.025	346.70	.018	306.82	.052	148.11	.009	275.08	.017	269.27

*** STABILITY PARAMETER

*   *
* XI =   -.3861 *
*   *
****

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 154 ALPHA-MCL = 6.0 PDP RUN.PT 30.05
RUN 30 ALPHA-BAR = 2.0 Q-COMP = .32779
POINT 5 SIGMA = 45. V-REF = 200.79
COMPUTED FREQUENCY = 19.09, K = .1493

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-22.052	-5.887	-5.202	-.928	-2.995	-.416	-1.773	-.053	-1.199	.358	-.687	.853	-.210	1.191
2	.396	-.048	.025	.194	.100	.011	.073	-.017	.059	.035	.083	.106	.130	.066
3	-1.273	-1.178	-.001	.028	-.016	.005	-.053	-.008	-.045	.007	.019	.024	.017	.024
4	-.132	.169	.025	-.043	.025	-.053	-.004	-.030	-.011	.008	.001	-.021	-.006	-.026
5	-.080	-.237	.004	-.001	-.018	-.038	-.021	-.020	.015	-.004	.005	-.011	.004	-.012
6	-.235	-.025	.020	-.014	.007	-.008	-.005	.011	.011	-.015	.016	-.011	.014	-.006
7	.040	.061	.005	.013	.002	-.001	.005	.017	-.001	.013	-.007	.001	-.002	.004
8	-.076	-.032	.003	.019	-.008	.015	-.004	.017	.005	.017	.001	.017	-.004	.005
9	-.050	-.029	.000	-.016	.002	-.012	-.002	.003	.004	-.003	.002	-.001	-.002	.005
10	.082	-.014	.022	.013	.014	.015	.010	.019	.009	.026	.001	.022	-.010	.015

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.089	1.220	-.020	1.195	-.035	1.141	6.195	2.541	3.229	2.189	2.124	1.721	1.337	1.550
2	.142	.036	.136	.010	.122	-.015	.487	-.705	.148	-.353	.104	-.154	.080	-.103
3	.017	.020	.019	.019	.017	.019	-.008	-.066	-.054	.043	.027	-.024	.029	-.017
4	-.004	-.021	-.007	-.018	-.003	-.014	-.058	-.038	-.004	-.020	-.024	-.041	-.010	-.036
5	.006	-.011	.006	-.011	.005	-.007	.006	-.002	.007	-.016	.002	-.003	.004	-.004
6	.011	-.006	.010	-.006	.012	-.005	-.001	.003	.001	.001	-.003	-.011	.004	-.012
7	-.003	.004	.000	.006	-.002	.003	.003	.004	-.000	.009	.004	.017	-.005	.018
8	-.002	.005	-.001	.000	.001	.005	-.002	-.009	.001	-.006	-.001	-.015	.002	-.014
9	-.002	.002	-.002	.007	.000	.001	-.005	.023	-.005	.014	-.009	.011	-.007	.004
10	-.006	.014	-.015	.010	-.007	.012	-.029	.010	-.021	.008	-.025	-.001	-.017	-.003

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.790	1.312	.644	1.530	.435	1.243	.027	1.280	-.144	1.051	-.207	1.195
2	.059	-.067	.057	-.068	.060	-.036	.083	.033	.084	-.059	.055	-.026
3	.026	-.007	.029	-.004	.039	-.005	.017	.002	.004	.012	.027	.013
4	-.009	-.028	-.002	-.034	-.005	-.035	.009	-.014	.003	-.025	.004	-.022
5	-.002	-.010	.002	-.009	.002	-.005	.002	-.015	-.002	-.011	.005	-.012
6	.003	-.008	.001	-.014	.005	-.011	.006	-.009	.009	-.007	.008	-.008
7	-.001	.012	-.002	.017	-.005	.013	-.005	.012	-.007	.007	-.003	.007
8	.005	-.007	.008	-.007	.004	-.004	.005	-.003	.008	.003	.007	.004
9	-.004	.002	-.007	.000	-.002	-.002	-.002	-.001	-.002	-.003	.000	-.001
10	-.008	.003	-.008	.004	-.007	.003	-.003	.006	.002	.009	.002	.010

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 154 ALPHA-MCL = 6.0 PDP RUN.PT 30.05
RUN 30 ALPHA-BAR = 2.0 Q-COMP = .32779
POINT 5 SIGMA = 45. V-REF = 200.79
COMPUTED FREQUENCY = 19.09, K = .1493
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	22.624	194.95	5.284	190.12	3.024	187.91	1.774	181.70	1.251	163.36	1.096	128.85	1.209	100.03
2	.399	353.03	.196	62.80	.101	6.02	.075	346.62	.069	30.58	.135	51.93	.145	26.91
3	1.735	222.79	.028	91.75	.016	163.86	.054	188.70	.046	170.71	.031	50.76	.030	54.81
4	.214	128.08	.049	300.00	.059	295.14	.031	263.01	.014	142.29	.021	273.67	.026	256.78
5	.250	251.25	.004	340.71	.042	245.25	.029	224.24	.015	345.17	.012	296.92	.013	290.03
6	.237	186.14	.025	324.70	.011	309.89	.012	115.34	.019	307.25	.019	325.71	.015	335.76
7	.073	56.66	.014	67.97	.002	343.96	.017	73.14	.013	94.20	.007	168.64	.004	114.65
8	.082	203.05	.019	81.90	.017	117.37	.017	103.76	.018	75.10	.017	87.45	.006	128.05
9	.058	210.05	.016	271.24	.012	278.08	.003	120.60	.005	316.06	.002	334.06	.006	115.42
10	.083	350.62	.026	30.55	.021	47.59	.021	60.53	.027	71.29	.022	86.59	.018	124.32

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.223	94.17	1.195	90.97	1.142	91.76	6.696	22.30	3.901	34.13	2.734	39.03	2.047	49.21
2	.146	14.29	.136	4.29	.123	353.20	.857	304.64	.383	292.74	.186	304.10	.130	308.01
3	.026	49.92	.027	43.90	.025	48.25	.067	263.10	.069	141.34	.036	318.16	.033	329.53
4	.022	259.57	.020	247.64	.014	255.75	.069	213.08	.020	259.81	.047	239.82	.037	254.26
5	.013	298.66	.012	298.85	.009	306.83	.006	340.56	.018	292.20	.004	300.70	.006	318.91
6	.012	329.21	.012	327.51	.013	335.25	.003	100.15	.002	32.56	.011	254.71	.012	286.95
7	.005	123.80	.006	86.22	.003	122.30	.005	52.76	.009	90.67	.017	76.52	.019	104.49
8	.005	116.00	.001	169.04	.005	72.91	.009	259.11	.006	279.20	.015	266.66	.014	278.36
9	.003	129.71	.008	108.70	.001	88.70	.023	101.80	.015	108.73	.014	129.80	.008	151.57
10	.016	119.85	.017	146.56	.014	122.18	.030	160.77	.022	159.80	.025	182.08	.017	189.32

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.526	59.25	1.660	67.17	1.317	70.72	1.280	88.78	1.061	97.81	1.213	99.82
2	.089	311.27	.088	310.06	.070	328.74	.089	21.78	.103	324.78	.061	335.02
3	.027	344.62	.029	351.35	.039	352.79	.017	8.27	.012	72.02	.030	24.59
4	.029	251.42	.034	267.01	.035	261.40	.017	300.92	.025	277.23	.022	281.16
5	.010	259.40	.010	279.17	.006	291.81	.015	276.00	.012	261.93	.013	293.44
6	.008	292.49	.014	274.78	.012	296.88	.011	302.62	.011	322.37	.011	317.42
7	.012	92.71	.017	97.46	.014	110.37	.013	112.05	.010	134.34	.007	113.41
8	.009	307.33	.011	316.32	.005	313.28	.006	333.58	.008	22.20	.008	27.69
9	.005	157.79	.003	171.28	.003	224.62	.002	201.82	.003	229.63	.001	306.96
10	.009	159.19	.009	150.94	.007	156.30	.007	117.53	.009	76.19	.011	76.96

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 154 ALPHA-MCL = 6.0 PDP RUN.PT 30.05
RUN 30 ALPHA-PAR = 2.0 C-COMP = .32779
POINT 5 SIGMA = 45. V-REF = 200.79
COMPUTED FREQUENCY = 19.09, K = .1493

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	23.247	8.428	8.431	3.117	5.118	2.137	3.111	1.603	1.979	.953	1.331	.677	.645	.053
2	.091	-.657	.123	-.548	.004	-.164	.009	-.085	-.001	-.102	-.026	-.174	-.070	-.102
3	1.265	1.112	-.057	.015	.042	-.028	.082	-.009	.071	-.014	-.010	-.028	.022	-.029
4	.074	-.206	-.028	.023	-.049	.017	-.006	-.006	.001	-.036	-.003	-.013	.001	-.009
5	.086	.255	.003	-.015	.019	.035	.025	.017	-.017	-.006	-.004	.001	-.002	.007
6	.235	.026	-.019	.015	-.010	-.002	.009	-.023	-.008	.007	-.015	-.003	-.009	-.004
7	-.037	-.057	-.005	-.004	.002	.017	-.010	.001	.000	-.001	.004	.016	-.003	.009
8	.074	.023	-.002	-.026	.007	-.030	.006	-.030	.001	-.024	.007	-.024	.007	-.008
9	.045	.052	-.005	.030	-.011	.022	-.005	.001	-.008	.005	-.005	.001	-.000	-.008
10	-.111	.024	-.043	-.006	-.039	-.016	-.027	-.021	-.017	-.023	-.009	-.017	.004	-.012

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	.116	.061	-.124	-.144	-.172	.054
2	-.059	-.003	-.052	-.070	-.067	-.011
3	.000	-.018	-.016	-.007	.011	-.006
4	.013	.007	.011	-.007	.008	-.008
5	-.005	-.003	-.007	-.001	-.000	-.005
6	-.005	-.003	-.001	-.000	-.004	-.002
7	-.002	.007	-.007	.001	-.001	.004
8	.006	-.007	.009	.003	.005	-.001
9	-.006	-.003	.007	-.010	.006	-.002
10	.005	-.008	.017	-.001	.010	-.001

N	CNREAL	CNIMAG
1	2.873	1.121
2	-.014	-.140
3	.063	.019
4	-.003	-.012
5	.004	.011
6	.001	-.002
7	-.003	.004
8	.007	-.016
9	-.002	.005
10	-.015	-.012

N	CMREAL	CMIMAG
1	.969	.353
2	.012	-.032
3	.022	.017
4	-.002	-.002
5	.003	.005
6	.003	.001
7	-.001	-.001
8	.001	-.002
9	-.000	.003
10	-.006	-.001

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.136	1.180	2.624	.326	-10.446	-1.648	-1.379	.295	-4.127	-5.559
2	.076	.047	-.252	-.571	.649	-.954	.081	.050	.426	.264
3	.029	.009	.061	.136	-.622	-.246	.005	.016	.399	-.219
4	.037	-.060	-.070	-.145	.261	-.308	.006	-.047	-.039	.068
5	-.003	-.008	.007	.003	-.027	-.009	.006	-.003	.034	.082
6	.031	.004	.003	-.041	.028	-.018	.014	-.013	.004	-.026
7	-.043	.016	.011	.007	.015	.021	.001	.015	.001	.026
8	-.027	-.021	.012	-.000	-.046	.017	-.001	.012	-.017	.029
9	.062	-.005	-.005	.010	.012	-.037	-.004	-.001	-.009	-.031
10	-.046	-.035	-.005	.021	.018	.009	.001	.016	.015	.013

*** STABILITY PARAMETER

* XI = -.3529 *

****

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 154 ALPHA-MCL = 6.0 PDP RUN.PT 30.05
RUN 30 ALPHA-FAR = 2.0 Q-COMP = .32779
POINT 5 SIGMA = 45. V-REF = 200.79
COMPUTED FREQUENCY = 19.09, K = .1493

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	29.478	16.61	8.989	20.29	5.547	22.66	3.499	27.26	2.197	25.72	1.493	26.94	.648	4.67
2	.663	277.93	.561	262.71	.164	271.34	.086	275.08	.102	269.59	.176	261.35	.124	235.77
3	1.684	41.32	.055	164.03	.051	326.17	.062	353.83	.073	348.47	.030	288.94	.036	306.66
4	.219	289.76	.036	140.55	.050	165.59	.009	221.39	.036	272.26	.014	256.68	.009	274.72
5	.250	69.90	.015	261.49	.040	60.83	.030	33.16	.018	200.35	.004	161.92	.007	158.65
6	.236	6.91	.024	141.35	.010	192.72	.024	291.10	.011	138.23	.015	192.04	.010	207.12
7	.068	236.94	.007	216.92	.017	34.12	.010	171.50	.001	296.88	.016	74.61	.010	108.56
8	.078	17.25	.026	266.15	.030	283.11	.031	281.34	.014	271.80	.025	285.77	.011	310.54
9	.069	43.90	.031	99.67	.025	115.26	.006	167.92	.009	146.53	.005	163.84	.008	269.83
10	.113	167.99	.044	187.33	.042	232.61	.035	217.80	.028	233.26	.020	241.48	.013	286.30

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	.131	27.55	.190	229.19	.180	162.68
2	.059	182.84	.087	233.50	.068	189.30
3	.018	270.28	.017	204.07	.012	329.04
4	.014	28.41	.013	326.80	.011	313.79
5	.006	216.74	.007	186.62	.005	267.52
6	.006	211.45	.001	187.54	.004	210.73
7	.008	104.18	.007	174.44	.004	106.83
8	.011	315.78	.009	18.28	.006	346.95
9	.003	266.55	.010	271.52	.002	280.99
10	.009	301.50	.017	357.20	.016	352.59

N	CN-MAG	PHIN
1	3.064	21.31
2	.141	264.15
3	.066	16.76
4	.013	256.50
5	.012	70.16
6	.002	299.47
7	.005	124.72
8	.018	294.21
9	.006	115.71
10	.019	218.97

N	CM-MAG	PHIM
1	1.031	20.01
2	.034	290.87
3	.028	38.39
4	.003	221.00
5	.006	59.11
6	.003	8.90
7	.001	235.06
8	.002	288.29
9	.003	92.27
10	.006	186.92

*** STABILITY PARAMETER

```
*                *
* XI =    -.3529 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.188	96.60	2.645	7.09	10.575	168.97	1.410	167.91	6.923	233.40
2	.090	31.61	.624	246.15	1.154	304.20	.095	31.94	.501	31.79
3	.030	16.95	.149	65.86	.669	201.57	.017	73.65	.455	331.28
4	.071	302.92	.161	244.24	.404	310.31	.047	277.11	.078	119.46
5	.009	249.37	.011	49.88	.028	199.59	.007	336.49	.088	67.63
6	.031	8.20	.041	273.84	.033	328.13	.019	316.68	.027	277.84
7	.046	160.19	.013	30.76	.026	55.32	.015	86.38	.026	88.36
8	.034	218.28	.012	358.64	.049	159.91	.012	93.73	.033	120.44
9	.005	287.93	.011	116.91	.039	287.93	.004	199.13	.032	254.52
10	.057	217.28	.021	103.57	.020	25.62	.016	87.82	.019	41.49

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 156 ALPHA-MCL = 6.0 PDP RUN.PT 31.04
RUN 31 ALPHA-BAR = 2.0 Q-COMP = .32399
POINT 1 SIGMA = 90. V-REF = 199.62
COMPUTED FREQUENCY = 9.11, K = .0717

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

	X = .012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.685	-6.665	-5.807	-1.014	-3.355	-.348	-2.098	.120	-1.628	.622	-1.467	1.134	-1.148	1.408
2	-.137	.760	.123	.415	.317	.123	.300	.089	.319	.123	.310	.262	.352	.254
3	-1.643	-2.364	.261	.080	.282	.121	.259	.123	.256	.104	.325	.173	.326	.166
4	.395	.191	.140	.053	.140	.018	.092	.027	.033	.088	.063	.061	.063	.057
5	-.072	-.378	.049	.034	.019	.005	.005	-.015	.040	.043	.036	.032	.030	.028
6	-.628	-.275	-.049	-.135	-.057	-.141	-.076	-.114	-.050	-.131	-.041	-.132	-.044	-.124
7	.029	.128	-.042	.097	-.015	.025	-.025	.042	-.023	.063	-.016	.049	-.013	.043
8	-.149	-.276	.018	-.061	-.012	-.044	-.031	-.038	.003	-.033	-.006	-.032	-.008	-.031
9	-.150	.016	-.009	-.028	-.003	-.034	-.004	-.003	-.002	-.016	-.003	-.021	-.002	-.013
10	-.067	.018	-.033	.030	-.030	-.001	-.020	.002	-.019	-.000	-.020	-.001	-.013	-.006

	X = .774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-.858	1.295	-.620	1.111	-.502	.947	8.681	3.119	5.083	2.350	3.418	1.792	2.390	1.463
2	.377	.226	.396	.190	.400	.138	.918	-1.064	.386	-.464	.295	-.095	.270	-.013
3	.318	.159	.331	.166	.338	.159	.252	.055	-.042	.161	.300	.108	.301	.118
4	.060	.057	.056	.058	.062	.052	.049	.010	.107	.204	.067	.052	.061	.057
5	.026	.031	.025	.027	.029	.024	-.011	.060	.045	.017	.011	.030	.018	.023
6	-.043	-.117	-.044	-.121	-.048	-.110	-.004	-.080	-.031	-.094	-.033	-.100	-.030	-.100
7	-.015	.043	-.014	.043	-.009	.044	.011	-.030	.008	.003	.002	.017	-.004	.024
8	-.007	-.031	-.009	-.036	-.014	-.030	-.080	-.011	-.056	-.019	-.041	-.025	-.031	-.029
9	-.002	-.010	-.002	-.007	.001	-.010	.040	.023	.025	.005	.014	.006	.008	.001
10	-.007	-.006	-.010	-.007	-.009	-.008	-.011	-.044	-.013	-.033	-.006	-.019	-.003	-.014

	X = .392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.492	1.066	1.332	1.074	.696	.768	.407	.695	.144	.540	-.230	.411
2	.235	.037	.306	.067	.246	.209	.310	.124	.415	.074	.214	.008
3	.287	.126	.351	.161	.397	.187	.291	.135	.283	.122	.320	.160
4	.061	.054	.073	.061	.066	.041	.042	.091	.077	.049	.047	.039
5	.021	.023	.018	.015	.037	.026	.026	.012	.013	.015	.036	.022
6	-.042	-.093	-.054	-.111	-.036	-.113	-.052	-.100	-.031	-.105	-.047	-.101
7	-.003	.034	-.002	.047	-.013	.036	-.007	.045	-.010	.042	-.010	.043
8	-.022	-.027	-.020	-.036	-.022	-.028	-.020	-.032	-.011	-.029	-.013	-.028
9	.002	-.002	.000	-.003	-.004	.003	.000	.002	.002	-.001	-.001	-.007
10	-.008	-.009	-.010	-.010	-.004	-.006	-.004	-.007	-.007	-.004	-.011	-.010

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 156 ALPHA-MCL = 6.0 PDP RUN.PT 31.04
RUN 31 ALPHA-PAR = 2.0 Q-COMP = .32399
POINT 1 SIGMA = 90. V-REF = 199.62
COMPUTED FREQUENCY = 9.11, K = .0717

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.146-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.569	195.11	5.895	169.90	3.373	185.91	2.101	176.71	1.742	159.07	1.854	142.28	1.617	129.18
2	.773	100.23	.433	73.50	.340	21.16	.313	16.50	.342	21.14	.436	40.24	.434	35.81
3	2.879	235.20	.273	16.95	.307	23.20	.287	25.48	.277	22.15	.368	28.03	.366	26.99
4	.439	25.62	.150	20.91	.142	7.25	.096	16.36	.094	69.68	.068	43.74	.085	42.35
5	.385	259.15	.060	35.11	.019	15.29	.016	286.44	.059	46.68	.049	41.40	.041	42.99
6	.686	203.63	.144	250.05	.152	248.11	.137	236.26	.140	249.27	.138	252.65	.131	250.40
7	.131	77.28	.106	113.28	.029	121.65	.049	120.95	.068	110.25	.052	138.22	.045	106.81
8	.314	241.58	.064	286.71	.046	254.88	.049	230.60	.033	274.85	.032	259.53	.032	255.72
9	.151	174.02	.029	251.30	.034	265.11	.005	217.21	.016	261.71	.021	262.42	.013	263.21
10	.059	165.10	.045	137.36	.030	181.76	.020	172.92	.019	180.01	.020	182.09	.014	206.12

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.554	123.52	1.273	119.17	1.071	117.92	9.224	19.76	5.000	24.81	3.859	27.67	2.802	31.47
2	.440	30.95	.439	25.66	.423	19.06	1.405	310.80	.604	309.72	.310	342.09	.273	357.21
3	.355	26.63	.370	26.65	.374	25.24	.258	12.42	.166	104.70	.319	19.79	.323	21.47
4	.083	43.78	.081	46.22	.081	39.94	.050	12.01	.230	62.16	.085	37.45	.084	42.83
5	.040	49.25	.037	47.39	.038	39.28	.061	99.92	.048	21.00	.032	69.15	.030	51.81
6	.124	249.77	.129	250.04	.120	246.44	.060	267.26	.099	251.56	.105	251.62	.104	253.47
7	.045	108.91	.046	107.51	.045	101.23	.032	239.25	.008	22.58	.017	84.42	.024	100.28
8	.032	257.90	.037	255.47	.033	244.82	.081	187.94	.059	198.77	.048	212.12	.043	222.43
9	.010	259.20	.007	254.49	.010	273.30	.046	30.13	.025	12.50	.015	21.92	.008	8.75
10	.009	217.62	.012	215.80	.012	218.65	.046	256.06	.035	248.91	.020	252.16	.014	257.87

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.634	35.54	1.711	38.86	1.036	47.81	.805	59.66	.559	75.11	.471	119.29
2	.236	8.91	.313	12.33	.323	40.40	.334	21.86	.422	10.09	.214	2.10
3	.313	23.67	.366	24.64	.439	25.25	.321	24.86	.309	23.34	.358	26.54
4	.081	41.37	.095	40.12	.080	31.35	.100	65.33	.091	32.71	.061	40.00
5	.031	47.55	.023	39.18	.045	35.47	.029	24.67	.020	49.08	.042	32.07
6	.102	245.59	.124	244.28	.118	252.38	.113	242.76	.110	253.61	.111	245.12
7	.034	94.28	.047	92.56	.038	109.70	.046	98.18	.043	103.42	.044	103.80
8	.035	230.95	.041	240.85	.036	232.57	.038	237.89	.031	250.02	.031	244.07
9	.003	318.27	.003	274.64	.005	148.50	.002	86.38	.002	322.74	.007	259.17
10	.012	229.67	.014	227.43	.007	239.29	.008	243.69	.008	206.84	.014	222.51

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 156 ALPHA-MCL = 6.0 PDP RUN.PT 31.04
RUN 31 ALPHA-RAP = 2.0 Q-COMP = .32399
POINT 1 SIGMA = 90. V-REF = 199.62
COMPUTED FREQUENCY = 9.11, K = .0717

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.366	9.785	10.890	3.364	6.773	2.140	4.488	1.342	3.120	.443	2.799	-.061	1.844	-.640
2	1.055	-1.824	.263	-.679	-.022	-.218	-.030	-.102	-.084	-.086	-.005	-.196	-.106	-.044
3	1.894	2.420	-.304	.081	.018	-.013	.042	-.005	.030	.021	.026	-.012	.071	.021
4	-.346	-.181	-.032	.150	-.073	.034	-.031	.030	.028	-.034	.009	.001	.005	-.016
5	.052	.438	-.034	-.017	-.007	.024	.014	.039	-.020	-.020	-.019	-.018	.006	-.002
6	.625	.195	.018	.042	.023	.041	.047	.015	.007	.038	-.012	.021	.008	.011
7	-.018	-.158	.050	-.094	.017	-.008	.021	-.018	.021	-.029	.014	-.002	.000	-.008
8	.069	.265	-.074	.042	-.029	.019	-.000	.009	-.025	.006	-.014	-.004	-.014	.002
9	.190	.008	.034	.033	.017	.039	.012	.004	.005	.014	.033	.017	-.003	.016
10	.056	-.062	.020	-.063	.024	-.018	.017	-.017	.011	-.009	.010	-.010	.009	.000

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.265	-.600	.764	-.571	.271	-.536
2	-.067	-.102	.019	-.116	-.186	-.130
3	-.028	-.024	-.047	-.044	-.018	.001
4	-.018	.034	.021	-.009	-.015	-.013
5	-.000	-.019	-.012	-.012	.007	-.002
6	-.009	.016	.013	.016	.001	.010
7	.008	.002	.004	-.001	-.002	-.002
8	-.014	-.001	-.001	.006	.001	.002
9	.002	.012	.004	.006	-.002	.003
10	.004	-.001	.002	.003	-.001	-.002

N	CNREAL	CNIMAG
1	4.245	.749
2	-.003	-.223
3	.054	.077
4	-.020	.007
5	-.002	.012
6	.029	.028
7	.013	-.020
8	-.014	.015
9	.012	.015
10	.012	-.013

N	CMREAL	CMIMAG
1	1.142	.431
2	.032	-.054
3	.022	.039
4	-.009	.003
5	.001	.009
6	.012	.005
7	.002	-.006
8	-.002	.006
9	.005	.002
10	.003	-.004

*** WALL PRESSUPES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.338	1.709	3.316	.511	-11.595	-2.150	-1.615	.390	1.307	-8.202
2	.231	.226	-.174	.006	1.195	-.846	.360	.153	-.108	.807
3	.339	.302	.595	.300	-.594	-.083	.418	.182	.183	.700
4	.082	.111	.155	-.022	.345	-.421	.084	.060	.263	-.057
5	.009	.060	.005	.041	.024	-.051	.039	.036	.042	-.120
6	.067	-.159	-.025	-.179	-.048	-.255	-.048	-.157	-.065	-.059
7	-.058	.034	-.012	.025	.042	.124	-.021	.058	-.059	.020
8	.018	-.072	-.016	-.056	-.028	-.032	-.004	-.040	-.017	-.013
9	.027	.001	.035	-.024	-.036	-.013	.009	-.020	.045	.015
10	.003	-.033	-.030	-.032	-.112	.045	-.024	.001	-.011	-.015

*** STABILITY PARAMETER

```
*                *
* XI =    -.4313 *
*                *
******************
```

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 156 ALPHA-PCL = 6.0 PDP RUN.PT 31.04
RUN 31 ALPHA-BAR = 2.0 Q-COMP = .32399
POINT 1 SIGMA = 90. V-REF = 199.62
COMPUTED FRECUENCY = 9.11, K = .0717

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	34.771	16.34	11.398	17.17	7.103	17.53	4.684	36.65	3.151	8.09	2.830	358.76	1.952	340.84
2	2.107	300.06	.918	266.65	.219	264.29	.107	253.56	.121	225.81	.196	268.67	.115	202.80
3	3.073	51.94	.314	165.02	.022	323.74	.042	353.11	.037	35.06	.029	335.41	.074	16.63
4	.390	207.58	.154	102.12	.080	155.21	.043	136.23	.045	309.46	.039	4.25	.017	289.24
5	.443	81.97	.018	256.21	.026	107.05	.041	70.35	.028	225.71	.026	223.40	.007	341.70
6	.654	17.32	.045	66.76	.047	60.27	.049	17.29	.039	78.90	.024	120.70	.014	53.37
7	.159	263.43	.106	297.78	.019	334.89	.028	319.08	.036	305.43	.014	351.61	.008	272.68
8	.274	75.31	.065	150.28	.034	146.58	.009	92.72	.025	166.58	.015	196.74	.014	169.82
9	.190	2.29	.047	44.26	.043	66.64	.012	19.18	.015	71.62	.018	80.11	.016	99.88
10	.084	311.99	.066	287.81	.030	323.20	.023	314.98	.014	319.05	.014	316.74	.010	2.80

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.400	334.61	.954	323.21	.601	296.84
2	.122	236.62	.118	279.40	.227	215.05
3	.036	222.62	.065	222.72	.018	177.73
4	.038	118.48	.023	336.70	.020	219.76
5	.019	269.17	.018	225.48	.007	346.66
6	.018	118.35	.021	50.85	.010	81.60
7	.009	16.97	.004	341.25	.002	221.57
8	.014	184.23	.007	102.25	.002	74.55
9	.012	80.31	.007	56.70	.003	125.27
10	.004	341.43	.004	53.40	.003	239.18

N	CN-MAG	PHIN
1	4.310	10.01
2	.223	269.21
3	.094	55.00
4	.022	160.80
5	.012	99.43
6	.040	43.67
7	.023	303.28
8	.021	133.53
9	.019	50.46
10	.018	313.22

N	CM-MAG	PHIM
1	1.220	20.70
2	.063	300.39
3	.045	60.54
4	.009	158.36
5	.009	86.24
6	.013	23.36
7	.007	291.44
8	.006	107.17
9	.005	21.50
10	.005	303.27

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.171	51.95	3.355	8.75	11.793	190.51	1.662	166.42	8.306	279.06
2	.323	44.38	.174	178.14	1.464	324.70	.391	22.98	.814	97.60
3	.454	41.67	.666	26.75	.599	137.92	.456	23.59	.723	75.33
4	.137	53.60	.157	351.95	.544	309.39	.104	35.66	.266	347.58
5	.061	81.23	.042	82.54	.057	294.75	.053	42.60	.128	289.40
6	.173	292.80	.180	262.14	.259	259.33	.164	252.64	.088	222.49
7	.067	149.51	.028	116.35	.131	71.35	.062	109.44	.062	160.97
8	.074	283.82	.058	254.09	.043	228.38	.041	265.01	.022	218.00
9	.027	2.54	.043	325.77	.014	246.88	.022	294.17	.047	17.86
10	.033	270.81	.044	226.92	.121	158.29	.024	178.23	.018	234.01

*** STABILITY PARAMETER

*   *
* XI = -.4313 *
*   *
****

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 158 ALPHA-MCL = 6.0 PDP RUN.PT 31.06
RUN 31 ALPHA-BAR = 2.0 Q-COMP = .31951
POINT 3 SIGMA = 90. V-REF = 198.21
COMPUTED FREQUENCY = 15.53, K = .1231

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-24.851	-5.857	-6.010	-.690	-3.539	-.160	-2.299	.242	-1.684	.711	-1.714	1.231	-1.352	1.525
2	-.090	.709	-.128	.221	-.030	-.086	-.064	-.138	-.090	-.097	-.091	.012	-.055	.010
3	-2.193	-2.402	-.035	-.095	-.026	-.055	-.054	-.036	-.066	-.031	-.036	-.011	-.008	-.001
4	.427	.048	.074	-.044	.077	-.056	.040	-.038	.023	.015	.033	-.017	.033	-.022
5	-.239	-.220	-.048	.022	-.070	-.004	-.091	-.015	-.048	-.003	-.045	-.011	-.044	-.014
6	-.342	.083	.045	-.006	.006	-.008	-.013	.019	.002	.002	.003	-.013	-.001	-.014
7	.084	-.136	-.004	-.002	.005	-.034	.007	-.015	.021	-.018	.001	-.016	.004	-.006
8	-.181	-.096	-.002	-.027	-.004	-.010	-.005	-.004	-.006	-.013	.001	-.014	.010	-.018
9	-.067	-.007	.003	-.020	-.003	-.014	.005	-.002	.007	-.021	.002	-.014	-.002	-.008
10	-.089	.023	-.017	.025	-.017	.007	-.006	.004	-.009	.008	-.009	.005	-.002	.000

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.068	1.394	-.878	1.288	-.763	1.167	8.354	3.147	4.739	2.682	3.147	2.106	2.103	1.843
2	-.031	-.017	-.037	-.058	-.044	-.096	.216	-1.231	-.209	-.574	-.221	-.275	-.215	-.207
3	-.007	-.007	-.001	-.007	.000	-.005	-.097	.061	-.210	.203	-.038	.010	-.028	-.004
4	.035	-.019	.045	-.013	.035	-.011	.051	-.018	.136	.022	.045	-.008	.043	-.000
5	-.042	-.015	-.040	-.015	-.042	-.016	-.050	.012	-.067	-.026	-.054	-.002	-.052	-.016
6	-.003	-.015	.003	-.013	.003	-.017	-.026	-.010	-.011	-.001	-.007	-.015	-.002	-.014
7	.003	-.009	.009	-.008	.005	-.005	-.001	.018	-.006	.007	-.008	.010	-.009	.004
8	.007	-.012	.010	-.018	.011	-.015	.015	.001	.014	-.003	.009	-.000	.009	-.001
9	.003	-.010	-.001	-.013	-.001	-.014	.013	-.001	.010	-.006	.011	-.013	.016	-.015
10	-.000	.001	-.003	.004	-.001	.001	.017	-.016	.008	-.009	.007	-.006	.003	-.001

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.241	1.447	1.033	1.560	.471	1.240	.100	1.174	-.239	.930	-.450	.994
2	-.189	-.148	-.205	-.175	-.136	-.017	-.155	-.105	-.064	-.204	-.223	-.127
3	-.022	-.004	-.025	-.005	.073	-.021	-.061	-.010	-.044	-.022	.002	-.010
4	.045	-.006	.055	-.006	.037	-.029	.057	.029	.062	-.020	.036	-.008
5	-.048	-.005	-.064	-.010	-.038	-.009	-.053	-.016	-.046	-.010	-.038	-.012
6	.004	-.013	.008	-.008	-.002	-.026	.009	-.005	.014	-.018	.008	-.011
7	-.005	.001	.030	-.007	-.015	.001	-.004	-.010	-.001	-.003	.003	-.008
8	.008	-.000	.000	.001	.010	.001	.003	.002	.006	-.000	.003	-.002
9	.007	-.014	.006	-.021	.007	-.014	.003	-.020	.004	-.013	.007	-.017
10	.002	.001	-.000	.003	.001	-.000	-.004	.005	-.003	.004	-.004	.005

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 158 ALPHA-MCL = 6.0 PDP RUN.PT 31.06
RUN 31 ALPHA-BAR = 2.0 Q-COMP = .31951
POINT 3 SIGMA = 90. V-REF = 198.21
COMPUTED FREQUENCY = 15.53, K = .1231
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.561-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.542	193.26	6.049	166.55	3.542	192.58	2.311	173.99	2.014	159.32	2.110	144.31	2.039	131.56
2	.715	97.24	.255	120.10	.091	250.62	.152	245.18	.133	227.03	.072	172.61	.055	169.78
3	3.253	227.60	.101	249.50	.061	245.15	.065	213.57	.073	204.97	.012	243.09	.008	189.06
4	.430	6.36	.087	329.10	.095	324.37	.055	317.07	.027	32.73	.037	332.06	.040	326.53
5	.325	222.73	.053	155.80	.071	182.86	.093	189.63	.048	183.38	.047	193.14	.046	197.56
6	.352	166.39	.046	351.83	.010	307.40	.023	124.12	.003	52.28	.014	281.91	.014	263.61
7	.160	301.52	.005	201.93	.034	277.94	.017	294.45	.027	319.43	.016	274.96	.007	301.33
8	.205	208.02	.027	266.14	.011	247.32	.007	222.23	.015	244.56	.014	275.73	.021	299.08
9	.066	185.53	.020	277.39	.014	259.16	.006	334.32	.022	287.76	.015	279.50	.008	258.04
10	.092	165.39	.030	125.01	.018	155.74	.007	145.90	.012	138.68	.010	150.76	.002	172.43

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.756	127.45	1.558	124.27	1.394	123.17	8.927	20.64	5.445	29.51	3.767	33.78	2.797	41.22
2	.035	209.65	.069	237.70	.106	245.31	1.250	279.97	.613	249.97	.352	231.27	.298	223.85
3	.010	224.47	.007	261.19	.005	273.72	.115	147.99	.292	136.01	.039	165.01	.028	188.46
4	.040	331.74	.047	343.39	.037	343.30	.054	340.04	.138	9.37	.045	349.75	.043	359.98
5	.045	199.03	.043	200.21	.045	200.89	.052	166.44	.072	201.47	.054	182.59	.054	196.81
6	.015	259.21	.014	261.09	.013	283.63	.027	201.32	.011	187.89	.017	243.48	.014	262.43
7	.009	291.11	.013	318.50	.007	315.40	.018	93.78	.009	127.73	.013	130.70	.009	155.54
8	.014	301.00	.021	298.81	.019	305.22	.015	2.99	.014	349.30	.009	358.83	.009	354.10
9	.011	284.51	.013	266.84	.014	267.87	.013	354.69	.011	327.48	.017	310.56	.022	315.76
10	.001	96.49	.005	130.83	.001	134.37	.023	317.87	.012	312.83	.009	319.02	.003	346.26

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.906	49.37	1.871	56.49	1.326	69.19	1.178	85.13	.960	104.42	1.091	114.38
2	.241	218.07	.270	220.49	.138	197.26	.187	214.04	.213	252.50	.257	209.59
3	.022	190.60	.026	190.20	.076	343.65	.062	189.67	.050	206.53	.011	282.94
4	.045	352.25	.056	353.92	.047	322.56	.064	27.22	.065	342.11	.037	347.28
5	.049	185.63	.065	189.12	.039	193.84	.060	195.03	.047	192.45	.040	198.40
6	.013	286.81	.011	313.46	.026	265.37	.010	329.73	.022	307.29	.014	306.01
7	.005	170.44	.007	273.53	.015	175.33	.010	247.88	.003	249.84	.009	290.16
8	.008	356.97	.001	66.51	.010	7.02	.003	27.28	.006	357.27	.003	326.29
9	.015	296.28	.023	290.93	.016	295.67	.020	278.38	.014	288.29	.018	293.23
10	.002	24.43	.003	99.55	.002	341.01	.007	127.26	.005	121.70	.006	128.65

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 156 ALPHA-MCL = 6.0 PDP RUN.PT 31.06
RUN 31 ALPHA-PAR = 2.0 Q-COMP = .31951
POINT 3 SIGMA = 90. V-REF = 198.21
COMPUTED FRECUENCY = 15.53, K = .1231

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.215	9.004	10.749	3.371	6.686	2.265	4.402	1.601	3.125	.736	2.747	.329	1.824	-.286
2	.307	-1.941	-.081	-.795	-.190	-.189	-.151	-.069	-.099	-.051	-.114	-.187	-.082	-.027
3	2.096	2.463	-.175	.298	-.012	.065	.026	.032	.045	.027	-.020	.006	.082	-.020
4	-.377	-.066	.062	.067	-.033	.047	.003	.038	.022	-.021	.023	.012	.004	-.007
5	.188	.232	-.018	-.048	.016	.001	.039	-.000	-.001	-.002	-.019	.000	.005	.004
6	.316	-.093	-.056	.005	-.013	-.007	.011	-.033	.002	-.015	.005	.005	-.001	-.012
7	-.085	.154	-.001	.009	-.013	.043	-.015	.019	-.026	.019	-.001	.008	-.018	.007
8	.196	.097	.016	.025	.013	.010	.014	.004	.014	.013	-.001	.015	.000	.019
9	.081	.005	.007	.013	.014	.001	.010	-.013	.000	.007	.006	-.007	.009	-.006
10	.106	-.039	.026	-.034	.024	-.014	.009	-.005	.012	-.007	.008	-.002	.003	-.001

X =	.774		.860		.913		N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI						
1	1.168	-.220	.638	-.356	.312	-.173	1	4.189	.990	1	1.133	.399
2	-.125	-.087	-.027	-.145	-.179	-.031	2	-.104	-.197	2	.003	-.055
3	-.054	-.003	-.043	-.016	.002	-.005	3	.060	.107	3	.028	.051
4	.022	.048	.017	-.007	.001	.002	4	-.001	.015	4	-.006	.002
5	-.016	-.001	-.006	.005	.004	.004	5	.008	.005	5	.004	.002
6	.012	.010	.011	-.005	.005	.002	6	.009	-.009	6	.002	-.003
7	-.007	-.001	-.010	.006	-.002	-.003	7	-.013	.017	7	-.002	.005
8	-.004	.014	-.004	.018	-.008	.014	8	.011	.016	8	.005	.001
9	.000	-.010	.005	-.000	.008	-.007	9	.008	-.002	9	.002	.001
10	-.004	.004	.001	.000	-.003	.004	10	.011	-.006	10	.004	-.003

*** STABILITY PARAMETER

****
* XI = -.3991 *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.698	2.133	2.835	1.119	-11.870	-1.741	-1.842	.592	1.163	-7.772
2	-.295	-.202	-.717	-.367	.806	-1.245	-.092	-.147	-.539	.393
3	-.053	-.047	.086	.071	-.869	-.248	.012	-.015	-.197	.476
4	.040	.033	.066	-.089	.309	-.451	.038	-.026	.246	-.074
5	-.070	-.099	-.101	.032	-.108	-.073	-.061	.001	.024	-.142
6	.009	-.000	.018	-.033	.135	-.038	.007	-.009	-.020	.010
7	-.007	.009	.007	-.005	.055	.015	.008	-.011	.044	.060
8	-.007	-.025	.014	-.003	-.041	-.006	.008	-.019	.011	-.048
9	-.009	-.014	.009	-.018	-.001	-.026	.004	-.012	.000	-.020
10	.013	.005	.000	.005	-.067	.044	-.009	.007	-.008	.029

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 156 ALPHA-MCL = 6.0 PDP RUN.PT 31.06
RUN 31 ALPHA-PAR = 2.0 Q-COMP = .31951
POINT 3 SIGMA = 90. V-REF = 198.21
COMPUTED FREQUENCY = 15.53, K = .1231

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	34.414	15.17	11.265	17.41	7.060	18.72	4.684	19.98	3.211	13.25	2.706	6.83	1.846	351.09
2	1.965	278.98	.799	204.16	.268	224.81	.166	204.51	.111	207.39	.219	238.66	.086	198.40
3	3.234	49.60	.346	120.41	.067	190.70	.041	50.49	.052	30.93	.021	162.15	.084	346.14
4	.382	189.95	.091	47.26	.058	124.73	.038	85.55	.030	316.13	.025	27.20	.008	302.85
5	.299	50.97	.051	248.96	.016	3.75	.039	359.64	.002	246.81	.019	179.06	.007	39.17
6	.329	343.65	.056	174.91	.015	207.71	.035	288.69	.015	278.33	.007	47.59	.012	267.13
7	.176	118.61	.009	97.87	.045	106.67	.024	129.10	.032	144.49	.008	96.23	.020	159.04
8	.219	26.35	.029	57.60	.017	37.90	.014	14.28	.019	42.16	.015	93.87	.019	89.71
9	.081	3.75	.015	62.50	.014	3.70	.016	309.46	.007	89.90	.009	310.13	.011	324.80
10	.113	339.93	.042	307.26	.027	330.06	.010	331.61	.014	328.04	.009	345.49	.003	347.41

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.186	349.32	.732	330.74	.357	331.01
2	.152	215.05	.148	259.34	.182	189.79
3	.054	183.60	.046	199.78	.006	291.72
4	.053	65.87	.018	338.85	.003	75.70
5	.016	183.67	.007	140.53	.006	38.46
6	.015	39.94	.012	337.34	.005	17.99
7	.007	187.26	.012	151.68	.004	244.10
8	.015	107.19	.018	102.01	.016	120.92
9	.010	271.68	.005	359.87	.008	338.92
10	.006	133.49	.001	25.92	.005	127.54

N	CN-MAG	PHIN
1	4.305	13.29
2	.223	242.30
3	.123	60.61
4	.015	92.14
5	.009	31.90
6	.013	314.17
7	.021	128.80
8	.019	56.25
9	.009	344.70
10	.013	331.17

N	CM-MAG	PHIM
1	1.202	19.40
2	.055	272.62
3	.058	61.22
4	.006	157.89
5	.005	22.15
6	.004	309.20
7	.005	110.25
8	.005	13.32
9	.002	25.75
10	.005	325.46

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.244	71.86	3.048	21.53	11.997	188.34	1.935	162.18	7.858	278.51
2	.358	214.33	.836	207.09	1.483	302.91	.174	237.96	.667	143.92
3	.071	221.06	.112	39.38	.903	195.91	.019	308.95	.515	112.42
4	.052	39.94	.106	303.98	.547	304.38	.046	326.09	.257	343.22
5	.121	234.64	.106	162.24	.130	213.90	.061	179.04	.144	279.71
6	.009	359.26	.035	300.69	.140	344.33	.012	307.59	.023	153.21
7	.011	127.63	.008	324.45	.057	14.86	.013	307.69	.075	53.91
8	.009	213.65	.016	330.69	.041	189.06	.021	293.21	.049	282.90
9	.016	235.83	.020	295.37	.026	268.04	.012	289.78	.020	270.49
10	.014	20.43	.005	87.96	.080	146.82	.011	144.17	.031	106.07

*** STABILITY PARAMETER

XI = -.3991

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 160   ALPHA-MCL = 6.0   PDP RUN.PT 31.08
RUN 31   ALPHA-PAR = 2.0   C-COMP = .3760U
POINT 5   SIGMA = 90.   V-REF = 200.49
COMPUTED FRECUENCY = 12.19, K = .1534

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.276	-5.656	-6.237	-.905	-3.731	-.428	-2.454	-.096	-2.037	.732	-1.888	.841	-1.481	1.133
2	.504	-.030	.391	.257	.157	-.041	.107	-.067	.075	-.030	.095	.092	.122	.084
3	-2.101	-1.948	-.041	-.139	-.013	-.066	-.038	-.065	-.081	-.057	-.012	-.041	-.011	-.035
4	.389	-.137	.053	-.056	.043	-.062	.025	-.045	.035	.036	.029	-.006	.030	-.009
5	-.145	-.191	-.007	.067	-.047	.018	-.072	.012	-.026	.014	-.021	.014	-.026	.015
6	-.210	.254	.009	.001	.005	.010	-.010	.071	-.013	.030	-.006	.016	-.007	.015
7	-.069	-.075	-.024	.022	-.016	.002	-.014	.013	-.027	.020	-.017	.012	-.004	.012
8	.001	-.122	.037	.010	.013	.011	.034	.021	.014	.014	.010	.017	.002	.007
9	-.077	-.042	-.010	-.010	-.002	-.009	.001	.002	.003	-.005	-.002	-.002	-.002	.002
10	.033	.024	.015	.023	.003	.016	.035	.016	.011	.023	.009	.020	.001	.010

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.215	1.050	-.297	.900	-.896	.828	8.363	2.777	4.695	2.359	3.229	1.853	1.958	1.605
2	.134	.059	.138	.001	.129	-.015	.314	-1.100	-.134	-.476	-.057	-.161	-.049	-.091
3	-.011	-.044	-.007	-.052	-.009	-.047	-.135	.053	-.141	.212	-.051	-.025	-.037	-.042
4	.032	.061	.034	.002	.039	-.000	.040	-.007	.119	-.035	.041	-.012	.038	-.005
5	-.035	.013	-.022	.020	-.025	.017	-.034	-.024	-.055	-.019	-.025	.006	-.031	.003
6	-.039	.015	-.011	.009	-.007	.015	-.013	.051	-.032	.048	-.009	.025	-.039	.021
7	-.036	.012	-.109	.014	-.004	.012	.034	-.036	.021	.003	.008	.014	-.005	.015
8	[illegible]	.006	.034	.003	.004	.003	-.042	-.011	-.032	-.007	-.012	-.013	-.006	-.009
9	-.002	.001	[illegible]	.001	.001	.001	.020	.021	.012	.012	.004	.006	.001	.000
10	-.001	.009	-.031	.008	.000	.009	-.019	-.019	-.013	-.010	-.011	-.014	-.002	-.009

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.111	1.242	.981	1.322	.337	1.027	-.028	.937	-.497	.729	-.513	.758
2	-.005	-.051	-.005	[illegible]	.050	.081	.035	[illegible]	.073	-.122	-.025	-.009
3	[illegible]	-.041	-.029	-.053	.050	-.087	-.063	-.050	-.054	-.046	-.019	-.059
4	.045	-.016	.051	-.015	.033	-.013	.052	.023	.045	-.013	.048	.000
5	[illegible]	.012	-.039	.024	-.019	.018	-.038	.023	-.035	.017	-.023	.015
6	[illegible]	.021	[illegible]	.005	-.003	.009	[illegible]	.018	-.032	.009	-.001	.014
7	[illegible]	.013	[illegible]	.014	-.004	.015	[illegible]	.014	-.005	.012	-.004	.010
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.001	[illegible]	[illegible]	.009	.003	.009	.006
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.003	[illegible]	-.003	.005	-.004	.002	-.003
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.005	.005	[illegible]	.006	.010

ORIGINAL PAGE IS
OF POOR QUALITY

[illegible] PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 167 ALPHA-MCL = 6.0 PDP RUN.PT 31.08
RUN 31 ALPHA-PAR = 2.0 Q-COMP = .3268
POINT 5 SIGMA = 90. V-REF = 200.49
COMPUTED FREQUENCY = 19.19, K = .1504

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.971	192.61	6.297	183.76	3.755	186.54	2.456	182.24	2.064	170.75	2.067	155.99	1.865	142.57
2	.644	357.57	.273	72.44	.162	345.38	.126	327.96	.083	338.13	.132	44.00	.148	34.52
3	2.917	221.91	.145	253.63	.067	258.54	.075	239.36	.097	215.55	.047	254.28	.036	253.06
4	.412	340.56	.077	313.10	.076	304.94	.051	299.03	.053	45.99	.030	349.13	.031	344.18
5	.240	232.77	.067	95.38	.050	158.81	.073	177.75	.027	152.48	.025	145.13	.030	150.76
6	.217	165.70	.008	5.48	.011	64.63	.033	108.48	.032	113.20	.017	108.81	.017	115.77
7	.173	227.58	.037	138.15	.016	173.93	.018	143.99	.022	108.40	.016	129.83	.013	110.28
8	.022	273.77	.038	15.10	.017	40.35	.022	87.36	.020	44.96	.019	60.05	.008	71.54
9	.056	228.64	.014	224.14	.009	254.84	.033	59.64	.006	302.12	.003	222.37	.003	127.82
10	.041	36.81	.023	56.73	.017	79.80	.017	71.92	.025	64.93	.022	66.74	.010	86.01

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.675	139.17	1.364	137.70	1.240	137.26	8.812	19.37	5.253	26.67	3.559	31.46	2.532	39.34
2	.147	23.61	.14	8.79	.130	353.55	1.144	295.92	.495	254.29	.171	250.70	.103	241.81
3	.045	255.49	.052	262.46	.046	259.03	.117	153.27	.255	123.66	.057	206.65	.056	228.51
4	.072	1.91	.034	3.32	.039	359.32	.041	349.41	.124	343.73	.043	343.35	.049	354.38
5	.028	152.48	.029	138.33	.030	145.73	.042	215.16	.059	198.54	.025	167.02	.031	173.96
6	.017	121.47	.014	140.07	.016	114.59	.052	104.59	.043	92.36	.027	108.77	.022	113.13
7	.013	118.30	.016	123.92	.013	110.61	.035	346.66	.021	8.66	.016	60.69	.016	107.48
8	.006	70.82	.005	33.93	.005	38.91	.043	194.79	.023	196.62	.018	226.55	.010	236.47
9	.002	150.47	.005	173.79	.001	28.46	.028	45.26	.017	44.80	.007	58.76	.001	.91
10	.009	99.00	.008	95.10	.009	89.86	.027	223.55	.017	219.23	.018	230.75	.010	258.86

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.667	48.18	1.588	56.33	1.081	71.84	.937	91.68	.835	119.13	.915	124.06
2	.057	244.15	.049	262.56	.100	53.55	.041	327.57	.142	301.12	.026	199.62
3	.050	275.87	.070	245.19	.096	301.00	.097	210.79	.071	220.51	.062	252.16
4	.048	339.75	.053	343.44	.035	338.57	.066	20.20	.047	343.29	.048	.26
5	.031	157.01	.046	148.31	.026	136.26	.044	148.93	.039	153.63	.027	146.59
6	.071	92.86	.025	89.18	.009	111.73	.018	89.58	.009	101.88	.014	94.80
7	.013	80.17	.014	99.86	.016	103.13	.016	119.63	.013	117.16	.011	112.59
8	.006	274.53	.008	303.70	.002	327.59	.009	12.36	.009	16.70	.011	33.45
9	.003	26.13	.002	329.95	.004	45.55	.003	281.91	.007	323.51	.004	308.65
10	.002	208.23	.002	347.59	.005	6.17	.007	53.51	.003	46.49	.012	60.82

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 160 ALPHA-MCL = 6.0 PRP RUN.PT 31.78
RUN 71 ALPHA-RAP = 2.0 C-COMP = .32680
POINT 5 SIGMA = 90. V-REF = 230.49
COMPUTED FREQUENCY = 19.19, K = .1504

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	33.679	9.432	10.927	3.254	6.759	2.281	4.412	1.701	3.143	.911	2.769	.481	1.818	-.105
2	[illegible]	-1.070	-.223	-.733	-.214	-.120	-.155	-.024	-.100	-.021	-.101	-.139	-.063	-.003
3	2.066	2.001	-.100	.351	-.037	.040	.001	.023	.052	.016	-.019	-.022	.060	-.048
4	-.349	.130	.066	.022	-.002	.057	.024	.040	.013	-.052	.022	-.010	.003	-.004
5	.111	.167	-.049	-.086	.022	-.013	.041	-.008	-.002	-.032	-.018	.010	.007	.004
6	.107	-.003	-.010	.048	-.013	.015	.002	-.011	.012	-.009	.006	.009	.004	-.006
7	[illegible]	.068	.045	-.018	.024	.012	.010	.004	.007	-.007	.008	.002	.001	.003
8	-.043	.012	-.059	-.017	-.025	-.027	-.009	-.030	-.014	-.020	-.005	-.024	-.001	-.008
9	.057	.063	.027	.022	.006	.015	.009	-.002	-.001	.006	.004	.001	.004	.000
10	-.052	-.043	-.029	-.024	-.014	-.033	-.007	-.026	-.012	-.024	-.007	-.021	.005	-.009

X =	.774		[illegible]		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	1.157	-.113	.591	-.201	.363	-.069
2	-.100	-.081	-.065	-.143	-.154	.006
3	-.072	-.006	-.047	.035	-.010	-.012
4	.030	.022	.011	-.015	.009	.001
5	-.013	.010	-.013	-.002	.002	-.002
6	.009	.003	.009	-.000	.006	-.001
7	-.002	.002	.003	-.002	.000	-.002
8	.006	-.004	.004	-.000	.006	.007
9	[illegible]	-.004	[illegible]	-.005	.001	-.007
10	.005	-.004	.006	-.003	.006	.002

N	CNREAL	CNIMAG
1	4.235	1.774
2	-.137	-.136
3	.055	.084
4	.006	.008
5	.004	-.001
6	.009	.003
7	.012	.002
8	-.010	-.014
9	.005	.005
10	-.007	-.017

N	CMREAL	CMIMAG
1	1.146	.379
2	-.014	-.038
3	.030	.045
4	-.004	.005
5	.003	-.001
6	.002	.002
7	.004	.001
8	-.004	-.002
9	.001	.002
10	-.003	-.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
CAP FRACTION	-.125		[illegible]		.175		.530		1.175	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	.517	1.723	2.610	.845	-12.140	-1.860	-2.055	.197	.657	-8.402
2	-.107	.010	-.402	-.169	.935	-1.415	.111	-.047	-.503	.548
3	-.006	-.089	.051	.022	-.723	-.374	-.005	-.065	-.068	.320
4	.060	.003	-.020	-.129	.287	-.431	.023	-.022	.136	-.152
5	-.044	-.058	-.061	.045	-.066	.033	-.040	.025	-.065	-.048
6	[illegible]	.017	.010	.019	.071	-.047	-.007	.021	-.029	.078
7	[illegible]	[illegible]	.021	-.009	-.017	.052	-.004	.019	-.009	.022
8	[illegible]	[illegible]	-.015	-.018	.017	.043	.007	.008	-.008	.017
9	[illegible]	.024	.017	.009	-.022	[illegible]	-.001	-.002	.031	.023
10	[illegible]	[illegible]	-.006	-.003	.001	[illegible]	.004	.009	-.029	-.011

*** STABILITY PARAMETER

XI = -.3793

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 160 ALPHA-MCL = 6.0 PDP RUN.PT 31.08
RUN 31 ALPHA-PAR = 2.0 C-COMP = .32680
POINT 5 SIGMA = 90. V-REF = 200.49
COMPUTED FREQUENCY = 19.19, K = .1530

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	34.620	14.07	11.404	16.63	7.134	18.65	4.729	21.08	3.277	16.13	2.810	9.85	1.821	356.66
2	1.132	250.93	.767	252.92	.245	209.42	.157	189.72	.102	192.16	.172	233.98	.063	183.02
3	2.876	44.08	.365	105.94	.055	132.78	.023	87.70	.055	17.12	.028	231.52	.077	321.45
4	.372	159.60	.069	18.18	.050	92.54	.046	59.48	.053	280.66	.024	336.22	.005	300.63
5	.200	56.43	.099	240.15	.026	330.65	.042	349.41	.003	215.10	.021	152.19	.008	28.10
6	.197	359.19	.049	102.37	.020	130.71	.011	278.59	.014	323.53	.010	55.73	.008	300.81
7	.124	33.25	.048	337.66	.027	27.18	.011	25.00	.012	320.54	.008	12.94	.003	74.28
8	.045	165.07	.061	195.67	.034	223.54	.031	252.64	.025	235.26	.024	257.71	.009	265.05
9	.044	47.85	.032	44.50	.016	67.64	.002	272.29	.006	91.56	.004	12.90	.004	4.97
10	.068	219.49	.044	230.20	.033	244.80	.026	254.42	.027	242.82	.022	251.34	.010	297.22

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	1.192	354.57	.624	341.24	.389	349.73
2	.128	219.06	.157	245.67	.154	177.84
3	.072	184.70	.049	173.46	.016	230.97
4	.037	36.15	.019	304.40	.009	4.45
5	.016	142.64	.013	190.55	.003	317.33
6	.010	19.36	.009	359.41	.006	351.03
7	.003	126.26	.004	327.40	.002	280.40
8	.008	327.70	.004	356.12	.006	29.48
9	.005	301.24	.012	335.71	.004	291.34
10	.007	322.58	.007	335.65	.006	15.60

N	CN-MAG	PHIN
1	4.369	14.23
2	.188	226.25
3	.100	57.13
4	.010	55.20
5	.004	346.56
6	.009	17.87
7	.013	9.98
8	.017	233.54
9	.008	38.87
10	.019	249.52

N	CM-MAG	PHIM
1	1.207	18.32
2	.041	269.41
3	.053	56.48
4	.006	131.14
5	.003	337.41
6	.002	42.96
7	.004	12.51
8	.005	206.32
9	.003	61.43
10	.005	228.60

*** STABILITY PARAMETER

XI = -.3793

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
LAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.799	73.30	2.743	17.93	12.282	158.71	2.064	174.51	8.427	274.47
2	.103	174.45	.436	202.73	1.696	303.46	.120	337.06	.744	132.58
3	.089	266.27	.055	23.45	.784	202.81	.065	265.45	.328	102.00
4	.060	2.78	.131	261.26	.518	303.71	.032	317.15	.204	311.78
5	.073	232.68	.076	143.78	.074	153.65	.048	147.90	.081	216.62
6	.054	167.49	.021	62.43	.085	326.15	.022	108.20	.048	127.24
7	.026	233.68	.023	336.28	.054	104.26	.019	193.47	.023	111.86
8	.012	151.47	.023	229.93	.047	68.19	.010	43.24	.019	114.09
9	.045	147.34	.019	24.41	.040	234.29	.002	253.65	.039	36.30
10	.004	257.20	.009	201.82	.027	86.90	.010	67.31	.023	208.33

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 174 ALPHA-MCL = 6.0 PDP RUN.PT 34.01
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33049
POINT 1 SIGMA = 135. V-REF = 201.61
COMPUTED FREQUENCY = 9.10, K = .0709

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.594	-2.663	-6.710	-.280	-4.017	-.020	-2.866	.163	-2.655	.419	-2.819	.710	-2.602	.842
2	.085	.327	.168	-.280	.169	-.451	.156	-.511	.122	-.544	.109	-.445	.121	-.450
3	-3.857	-1.845	-.280	-.237	-.304	-.215	-.280	-.192	-.343	-.188	-.273	-.178	-.272	-.164
4	.346	-.456	-.121	.280	-.053	.140	-.075	.159	-.094	.274	-.099	.245	-.093	.238
5	-.449	-.300	-.063	-.054	-.031	.002	-.080	-.004	-.046	.004	-.047	.008	-.057	.000
6	-.161	.129	.109	-.140	.055	-.070	.047	-.035	.059	-.016	.063	-.044	.059	-.033
7	-.092	.018	.033	.103	-.040	.011	-.047	.011	.000	.023	-.018	.024	-.015	.026
8	-.216	.287	-.035	.031	-.019	.015	-.029	.038	-.028	.010	-.027	.006	-.036	.004
9	.008	-.183	-.008	-.043	-.029	-.045	-.006	-.022	.006	-.017	-.001	-.020	-.001	-.019
10	-.144	.035	-.006	-.018	-.009	-.003	-.016	.008	-.005	-.018	-.005	-.011	-.006	-.010

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.158	.741	-1.755	.597	-1.571	.551	9.393	1.624	5.603	1.308	3.619	1.129	2.392	.938
2	.138	-.435	.162	-.463	.168	-.542	.189	-1.603	-.020	-.712	.006	-.475	.031	-.433
3	-.262	-.161	-.253	-.168	-.277	-.175	-.180	.040	-.491	.198	-.224	-.095	-.229	-.126
4	-.092	.228	-.094	.230	-.090	.247	.023	.202	.133	.320	-.041	.236	-.058	.237
5	-.055	.003	-.063	-.004	-.063	-.006	-.082	-.004	-.081	-.041	-.062	-.002	-.057	-.005
6	.056	-.028	.055	-.026	.051	-.028	.098	-.006	.101	-.008	.076	-.024	.066	-.016
7	-.016	.019	-.015	.028	-.018	.028	.008	-.048	.000	-.029	-.007	-.001	-.010	.009
8	-.035	.002	-.036	-.001	-.045	-.003	-.071	-.003	-.065	-.004	-.052	-.009	-.044	-.017
9	-.003	-.015	.002	-.017	-.006	-.013	-.023	.026	-.018	.011	-.020	.008	-.014	.002
10	.002	-.006	.000	-.007	-.000	-.006	.014	.007	.005	.003	.039	.005	.008	.005

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.331	.678	1.015	.681	.306	.508	-.056	.487	-.402	-.069	-.737	.360
2	.059	-.392	.102	-.512	.110	-.329	.120	-.499	.312	-.581	-.129	-.507
3	-.212	-.125	-.245	-.174	-.153	-.168	-.309	-.178	-.280	-.180	-.230	-.120
4	-.054	.221	-.082	.246	-.071	.242	-.073	.284	-.054	.209	-.123	.232
5	-.056	-.006	-.077	.001	-.012	-.013	-.074	-.012	-.059	-.015	-.061	-.007
6	.061	-.021	.076	-.010	.049	-.045	.061	-.006	.060	-.036	.046	-.014
7	-.007	.015	-.010	.017	-.017	.029	-.019	.021	-.017	.020	-.016	.023
8	-.041	-.010	-.047	-.012	-.038	-.017	-.045	-.005	-.035	-.016	-.034	-.006
9	-.014	-.003	-.015	-.006	-.016	-.002	-.013	-.009	-.004	-.011	-.006	-.011
10	.005	.005	.004	.004	.008	.002	.001	.003	.001	.001	.000	-.003

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 174 ALPHA-MCL = 6.0 PDP RUN.PT 34.01
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33049
POINT 1 SIGMA = 135. V-REF = 201.61
COMPUTED FREQUENCY = 9.10, K = .0709
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.734	185.99	6.716	182.39	4.017	180.29	2.871	176.74	2.688	171.03	2.907	165.87	2.735	162.07
2	.337	75.47	.327	300.98	.481	290.51	.534	286.96	.557	282.60	.458	283.83	.466	285.07
3	4.276	205.56	.367	220.26	.373	215.23	.339	214.39	.392	208.72	.325	213.06	.317	211.09
4	.572	307.19	.305	113.37	.150	110.84	.176	115.29	.290	108.98	.264	112.07	.255	111.47
5	.540	213.70	.099	213.01	.031	177.12	.080	183.16	.046	174.98	.047	170.28	.057	179.72
6	.207	141.25	.177	308.05	.089	308.07	.058	323.64	.062	344.67	.076	325.06	.068	331.13
7	.094	169.22	.109	72.12	.041	164.75	.048	166.80	.023	89.13	.030	126.94	.030	119.96
8	.359	126.89	.047	138.51	.024	141.72	.048	127.52	.030	159.52	.028	166.62	.036	173.75
9	.184	272.63	.044	259.11	.054	237.55	.023	254.09	.018	290.85	.020	267.10	.019	267.26
10	.148	166.19	.020	250.83	.010	197.68	.018	154.87	.019	254.95	.012	247.12	.012	239.68

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.282	161.66	1.653	161.21	1.665	160.69	9.533	9.81	5.754	13.13	3.791	17.33	2.569	21.42
2	.457	287.59	.490	289.28	.568	287.17	1.614	276.73	.713	268.38	.475	270.69	.434	274.07
3	.308	211.64	.303	213.63	.327	212.33	.184	167.39	.529	158.07	.244	202.84	.261	208.77
4	.246	111.91	.248	112.21	.263	110.03	.203	83.46	.347	67.41	.240	99.80	.244	103.87
5	.055	177.09	.063	183.90	.064	185.13	.082	182.47	.091	207.03	.062	182.21	.058	185.48
6	.063	333.26	.061	334.66	.058	331.31	.099	356.79	.101	355.54	.079	342.36	.068	346.07
7	.025	128.73	.032	117.70	.034	121.80	.049	279.08	.029	270.20	.008	190.84	.013	137.35
8	.035	175.98	.036	181.71	.045	184.43	.071	182.22	.065	183.14	.053	189.56	.047	201.60
9	.016	257.41	.017	276.44	.015	247.25	.035	131.93	.021	148.88	.021	158.70	.014	171.63
10	.008	280.98	.007	270.87	.006	265.93	.016	26.11	.006	32.12	.010	29.38	.009	33.28

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.494	27.00	1.222	33.84	.593	58.97	.450	97.13	.407	189.77	.820	153.94
2	.397	278.55	.522	261.27	.347	288.48	.513	283.56	.660	298.27	.620	257.96
3	.246	210.50	.301	215.41	.228	227.68	.357	209.93	.333	212.74	.259	207.55
4	.227	103.66	.259	108.48	.252	106.42	.293	104.36	.216	104.52	.263	117.92
5	.056	186.60	.077	179.58	.018	227.21	.075	189.31	.061	194.27	.061	186.25
6	.065	341.42	.076	352.47	.066	317.27	.062	353.97	.070	328.73	.048	343.42
7	.017	116.91	.020	121.14	.034	120.90	.028	132.07	.026	130.10	.028	124.44
8	.042	193.09	.048	194.16	.041	204.19	.045	186.42	.038	204.86	.035	189.27
9	.014	192.53	.016	202.54	.017	185.30	.016	216.14	.012	248.80	.013	242.58
10	.007	46.35	.006	50.04	.008	14.88	.003	67.54	.001	41.25	.003	275.13

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 174 ALPHA-MCL = 6.0 PDP RUN.PT 34.01
RUN 34 ALPHA-PAR = 2.0 Q-COMP = .33049
POINT 1 SIGMA = 135. V-REF = 201.61
COMPUTED FREQUENCY = 9.10, K = .0709

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	34.987	4.307	12.314	1.588	7.636	1.149	5.258	.775	3.986	.259	3.834	-.029	2.908	-.334
2	.105	-1.930	-.188	-.432	-.163	-.024	-.125	.078	-.063	.152	-.007	-.068	-.011	.121
3	3.677	1.885	-.211	.435	.080	.120	.051	.066	.131	.063	.028	.003	.119	-.004
4	-.323	.658	.254	.041	.012	.096	.017	.078	.041	-.053	.017	.001	.022	.004
5	.367	.296	.002	.013	-.031	-.004	.023	-.001	-.010	-.010	-.030	-.007	.045	-.013
6	.260	-.135	-.009	.132	.020	.046	.019	.018	.002	-.004	.013	.034	-.011	-.012
7	.100	-.066	-.033	-.132	.032	-.012	.037	-.002	-.008	-.008	.008	-.007	-.002	.003
8	.145	-.290	-.029	-.035	-.033	-.023	-.015	-.055	-.013	-.020	-.019	-.018	-.002	-.021
9	-.032	.209	-.010	.054	.009	.053	-.008	.024	-.020	.014	-.014	.014	-.016	.017
10	.158	-.028	.011	.022	.018	.208	.024	-.003	.010	.023	.009	.016	.014	.012

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.102	-.294	1.353	-.666	.835	-.190
2	-.018	-.064	.151	-.118	-.297	-.064
3	-.047	-.017	-.027	-.012	.047	.055
4	.019	.055	.040	-.021	-.033	-.015
5	-.018	-.015	.004	-.011	.003	-.001
6	.005	.022	.005	-.010	-.004	.014
7	-.003	.001	-.002	-.009	.002	-.005
8	-.010	-.007	.001	-.015	.011	-.002
9	-.009	.006	-.006	.006	-.000	.002
10	-.000	.011	.001	.008	.001	.002

N	CNREAL	CNIMAG
1	5.133	.362
2	-.073	-.074
3	.147	.119
4	.023	.039
5	.010	.003
6	.013	.017
7	.008	-.015
8	-.007	-.030
9	-.010	.026
10	.015	.010

N	CMREAL	CMIMAG
1	1.194	.214
2	-.005	-.034
3	.053	.047
4	.004	.015
5	.005	.005
6	.005	.003
7	.003	-.005
8	-.001	-.007
9	-.000	.007
10	.004	-.000

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.603	1.321	2.950	.623	-12.836	-.866	-2.545	.302	6.634	-5.071
2	.169	-.376	-.018	-.555	.711	-2.147	.213	-.630	-.602	-.674
3	-.278	-.260	-.273	-.170	-1.216	-.369	-.280	-.228	-.235	-.643
4	-.217	.233	-.109	.308	-.028	-.228	-.104	.284	-.263	.413
5	-.060	-.045	-.079	.015	-.207	-.065	-.036	-.031	-.205	.003
6	.124	.024	.052	-.057	.150	-.255	.073	-.059	.187	.088
7	-.019	.006	-.050	-.024	.109	.080	-.013	.026	.012	.098
8	-.029	-.028	-.064	-.037	-.007	.134	-.036	.002	.003	.022
9	-.005	-.014	-.029	-.005	.003	-.029	-.008	-.017	-.023	.024
10	.012	.015	.012	.004	-.106	.018	-.018	-.009	-.025	.001

*** STABILITY PARAMETER

* XI = -.2141 *

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 174 ALPHA-MCL = 6.0 PDP RUN,PT 34.01
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33049
POINT 1 SIGMA = 135. V-REF = 201.61
COMPUTED FREQUENCY = 9.10, K = .0709

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.251	7.02	12.416	7.35	7.722	8.56	5.314	8.39
2	1.933	273.10	.471	246.43	.165	188.45	.147	148.16
3	4.132	27.14	.483	115.85	.145	56.42	.083	52.23
4	.732	116.14	.257	9.06	.097	82.60	.079	77.82
5	.472	38.88	.013	81.70	.031	187.40	.023	357.32
6	.293	332.54	.132	93.67	.051	66.16	.027	43.02
7	.120	326.75	.136	255.89	.034	339.22	.037	356.94
8	.324	296.49	.045	230.09	.041	214.97	.057	254.79
9	.212	98.61	.055	100.24	.054	80.03	.025	107.34
10	.160	349.79	.024	62.11	.020	23.54	.025	354.05

X =	.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	3.994	3.72	3.834	359.57	2.927	353.45
2	.164	112.40	.068	263.77	.121	95.29
3	.146	25.72	.028	6.90	.119	357.86
4	.067	307.28	.017	3.79	.023	10.95
5	.014	226.81	.031	193.76	.047	343.58
6	.005	293.85	.036	68.69	.016	229.23
7	.012	227.19	.010	317.94	.004	128.82
8	.024	236.53	.027	223.28	.021	265.50
9	.024	145.84	.020	134.43	.023	132.02
10	.025	67.30	.018	61.65	.018	41.90

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.123	352.04	1.508	333.79	.856	347.15
2	.066	254.42	.191	321.86	.304	192.19
3	.050	199.40	.030	203.58	.073	49.66
4	.058	70.80	.045	332.05	.036	204.01
5	.024	219.21	.011	268.42	.003	340.20
6	.022	77.05	.011	295.16	.015	107.61
7	.004	155.90	.009	257.81	.005	287.32
8	.012	216.91	.015	272.70	.011	348.85
9	.011	147.15	.009	136.49	.002	99.06
10	.011	92.39	.008	83.02	.002	73.97

N	CN-MAG	PHIN
1	5.145	4.04
2	.104	225.23
3	.190	39.04
4	.045	59.85
5	.010	18.06
6	.022	53.07
7	.017	298.17
8	.031	256.06
9	.027	110.43
10	.018	33.26

N	CM-MAG	PHIM
1	1.213	10.16
2	.034	262.19
3	.071	41.89
4	[illegible]	75.63
5	.007	49.82
6	.006	32.18
7	.006	297.00
8	.007	265.28
9	.007	91.75
10	.004	359.04

*** STABILITY PARAMETER

```
*                *
* XI =   -.2141  *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.077	39.48	3.015	11.92	12.865	183.86	2.563	173.23	8.350	322.60
2	.413	294.23	.555	268.11	2.261	288.32	.665	288.64	.904	228.24
3	.381	223.10	.321	211.91	1.271	196.89	.361	219.23	.685	249.92
4	.318	132.99	.327	109.52	.230	263.11	.302	110.07	.490	122.47
5	.075	217.07	.081	169.23	.216	197.38	.047	220.86	.205	179.07
6	.126	10.77	.077	312.49	.296	300.33	.094	321.02	.207	25.07
7	.020	161.59	.055	205.57	.135	36.12	.029	116.50	.099	83.30
8	.041	223.50	.074	209.63	.134	93.16	.036	177.21	.022	81.39
9	.015	[illegible]	.029	190.26	.029	276.96	.019	243.87	.033	133.54
10	.020	[illegible]	.012	18.11	.107	170.21	.020	206.41	.025	178.10

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 176 ALPHA-MCL = 6.0 PDP RUN.PT 34.03
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33064
POINT 3 SIGMA = 135. V-REF = 201.66
COMPUTED FREQUENCY = 15.49, K = .1207

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.424	-2.610	-6.701	-.411	-3.961	-.214	-2.787	-.071	-2.603	.160	-2.731	.444	-2.493	.591
2	.020	.568	-.029	.189	-.006	.133	-.018	.095	-.048	.125	-.054	.258	-.043	.254
3	-3.676	-.908	.085	.041	.019	.033	.047	.036	-.001	.043	.084	.048	.081	.059
4	.204	-.626	-.005	.216	.024	.013	.011	.034	.022	.132	.027	.105	.027	.098
5	-.310	-.343	-.067	-.095	.036	-.076	-.001	-.071	.038	-.071	.043	-.073	.041	-.069
6	-.024	.251	.037	-.066	.007	.012	-.010	.028	-.005	.049	-.010	.028	-.010	.022
7	-.152	[illegible]	.055	.021	.000	.005	-.002	.004	.037	.004	.025	.007	.015	.011
8	-.128	[illegible]	.063	.016	.014	-.011	.011	.012	.012	-.007	.019	-.003	.016	-.001
9	.061	-.081	.007	-.012	.007	-.017	.008	-.007	.018	-.007	.014	-.006	.014	-.008
10	-.026	.143	.010	.027	.005	.036	-.000	.037	.001	.023	.001	.027	.001	.023

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.074	.494	-1.679	.379	-1.411	.329	9.395	1.650	5.618	1.432	3.656	1.220	2.412	1.042
2	-.037	.259	-.036	.241	-.033	.210	.253	-.751	.012	.024	-.049	.266	-.068	.291
3	.080	.053	.084	.046	.083	.039	.250	.011	.057	.274	.132	.012	.103	.016
4	.034	.099	.043	.101	.046	.098	.064	-.018	.154	.039	.054	.063	.044	.082
5	.043	-.064	.045	-.066	.041	-.062	-.002	-.053	-.007	-.076	.023	-.056	.038	-.050
6	-.011	.023	-.011	.017	-.004	.019	-.027	-.019	-.003	.004	-.008	-.000	-.005	.004
7	.017	.011	.016	.011	.016	.006	.025	-.001	.021	-.001	.013	.000	.012	.000
8	.017	.001	.018	.002	.014	.006	.025	.041	.017	.027	.016	.023	.014	.022
9	.015	-.005	.011	-.005	.013	-.004	-.017	.005	-.010	.002	-.005	-.001	-.003	-.000
10	-.002	.021	-.003	.018	-.002	.021	-.018	-.011	-.010	.002	-.006	.003	-.007	.007

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.365	.762	1.047	.761	.341	.551	-.043	.484	-.006	.091	-.600	.428
2	-.060	.262	-.062	.280	-.037	.369	-.063	.239	.007	.097	-.244	.231
3	.090	.011	.111	-.001	.165	-.011	.026	.021	.032	.017	.104	.034
4	.053	.079	.054	.090	.064	.095	.076	.131	.046	.083	.047	.111
5	.024	-.059	.030	-.061	.059	-.083	.025	-.056	.031	-.061	.034	-.065
6	-.001	.009	.004	.015	-.010	-.005	.008	.018	-.006	.010	-.004	.011
7	.013	-.003	.019	-.006	.009	-.001	.011	.003	.008	.000	.019	-.003
8	.011	.013	.012	.011	.010	.013	.015	.009	.007	.002	.010	.004
9	.003	-.002	.005	-.003	.005	-.001	.004	-.001	.007	-.003	.008	-.004
10	-.002	.008	-.004	.014	-.003	.018	-.001	.019	-.001	.019	-.000	.019

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 176 ALPHA-MCL = 6.0 PDP RUN.PT 34.03
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33064
POINT 3 SIGMA = 135. V-REF = 201.66
COMPUTED FREQUENCY = 15.49, K = .1207
FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.558	185.86	6.714	183.51	3.966	183.10	2.788	181.45	2.607	176.47	2.767	170.76	2.563	166.66
2	.569	88.01	.191	98.68	.133	93.41	.096	100.81	.134	110.80	.264	101.71	.258	99.67
3	3.786	193.87	.094	25.83	.038	60.51	.059	37.62	.043	91.87	.097	29.75	.101	36.22
4	.659	288.07	.216	91.39	.028	28.18	.036	72.46	.134	80.61	.108	75.68	.101	74.51
5	.462	227.92	.116	235.02	.084	295.22	.071	269.41	.080	298.16	.065	300.70	.081	300.70
6	.282	94.87	.074	296.60	.014	60.38	.029	109.20	.049	95.67	.030	109.46	.024	115.52
7	.184	214.11	.088	14.11	.005	88.23	.005	117.73	.038	5.65	.026	15.77	.019	35.80
8	.145	151.94	.016	79.26	.018	323.37	.017	46.82	.013	329.83	.019	352.16	.017	355.78
9	.102	307.05	.013	301.06	.018	291.54	.011	319.90	.039	340.39	.015	338.42	.016	329.72
10	.146	100.42	.029	69.74	.036	82.85	.037	90.32	[illegible]	87.90	.027	88.89	.023	88.63

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.132	166.59	1.721	167.27	1.449	166.87	9.539	9.96	5.798	14.30	3.854	18.45	2.627	23.37
2	.262	98.05	.243	98.52	.213	98.97	.792	288.65	.027	64.32	.271	100.46	.299	103.20
3	.096	33.80	.096	28.40	.092	25.31	.250	2.62	.280	78.26	.132	5.26	.104	8.89
4	.105	71.10	.110	66.83	.108	65.00	.067	344.56	.159	14.24	.063	49.42	.093	61.94
5	.077	303.91	.079	304.34	.074	303.21	.053	267.95	.076	264.81	.060	292.37	.063	307.11
6	.025	115.26	.020	121.59	.020	102.35	.033	215.08	.005	123.86	.008	181.77	.006	138.38
7	.020	33.11	.019	32.60	.017	20.71	.025	356.57	.021	357.33	.013	1.92	.012	.33
8	.017	2.79	.019	7.71	.016	22.56	.048	58.77	.032	58.69	.028	54.74	.026	57.16
9	.016	340.44	.013	335.88	.014	341.87	.018	164.52	.010	168.47	.005	194.46	.003	189.15
10	.021	95.03	.018	99.04	.021	94.97	.021	211.85	.010	170.49	.007	151.26	.010	138.05

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.563	29.18	1.294	36.03	.648	58.23	.486	95.08	.612	171.43	.737	144.47
2	.269	102.87	.287	102.55	.370	95.71	.247	104.68	.098	85.98	.336	136.53
3	.090	6.94	.111	359.66	.165	356.20	.033	39.20	.036	28.02	.110	17.99
4	.095	56.16	.105	59.03	.115	56.14	.152	60.03	.095	60.99	.120	67.22
5	.064	292.09	.068	296.24	.102	305.48	.061	293.67	.068	296.87	.073	297.79
6	.009	95.29	.015	74.01	.011	206.57	.020	65.89	.011	123.88	.011	110.84
7	.014	349.23	.020	342.68	.009	351.22	.011	17.56	.008	3.05	.019	351.92
8	.017	51.78	.016	40.94	.016	50.78	.018	29.17	.008	15.02	.010	22.75
9	.004	317.25	.005	328.80	.005	343.87	.004	347.81	.008	339.64	.009	333.09
10	.008	106.58	.014	104.30	.018	98.81	.019	93.51	.019	92.94	.019	90.62

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 176 ALPHA-MCL = 6.0 PDP RUN.PT 34.03
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33064
POINT 3 SIGMA = 135. V-REF = 201.66
COMPUTED FREQUENCY = 15.49, K = .1207

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	34.819	4.259	12.319	1.843	7.617	1.434	5.199	1.113	3.967	.602	3.778	.317	2.835	-.041
2	.234	-1.319	.041	-.165	-.041	.134	-.050	.197	-.012	.136	-.009	.022	.006	.115
3	3.926	.919	-.028	.233	.113	-.021	.056	-.020	.091	-.032	.027	-.049	.083	-.070
4	-.140	.609	.160	-.177	.030	.050	.033	.048	.031	-.053	.027	-.015	.037	-.002
5	.308	.290	.060	.019	-.013	.021	.039	.021	-.014	.012	-.013	.012	.018	-.014
6	-.003	-.300	-.036	.070	-.015	-.012	.005	-.024	.004	-.040	.014	-.014	.001	-.027
7	.177	.102	-.064	-.022	.013	-.004	.014	-.004	-.024	-.006	-.006	-.013	-.007	-.012
8	.153	-.027	.014	.012	.002	.033	.002	.009	-.001	.020	-.006	.013	-.006	.014
9	-.079	.066	-.017	.014	-.011	.016	-.011	.006	-.016	.004	-.010	.003	-.009	.007
10	.009	-.154	-.020	-.025	-.011	-.033	-.007	-.030	-.003	-.015	-.004	-.013	-.003	-.005

X =	.774		.860		.910		N	CNREAL	CNIMAG	N	CMREAL	CMIMAG
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI						
1	2.031	-.010	1.073	-.288	.811	.099	1	5.075	.654	1	1.198	.213
2	-.026	-.020	.043	-.143	-.211	.021	2	-.022	.014	2	.010	-.012
3	-.054	-.032	-.052	-.029	.021	-.006	3	.157	.015	3	.065	.022
4	.042	.032	.002	-.019	.001	.013	4	.031	.011	4	.003	.005
5	-.019	.008	-.014	.005	-.007	-.003	5	.012	.017	5	.008	.006
6	.019	-.005	.004	-.008	.000	-.008	6	.001	-.021	6	-.002	-.003
7	-.006	-.008	-.009	-.010	.002	-.009	7	-.002	-.006	7	.002	.002
8	-.001	.008	-.011	-.001	-.005	-.002	8	.003	.011	8	.003	.001
9	-.011	.005	-.004	.002	-.005	.000	9	-.012	.008	9	-.002	.002
10	.001	-.003	.002	.001	.002	-.002	10	-.004	-.018	10	-.001	-.005

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.536	1.407	3.144	.547	-13.034	-.828	-2.465	.107	7.059	-5.591
2	-.250	.494	-.279	.310	.285	-1.668	-.015	.153	-.997	.189
3	.105	.112	.170	.095	-.596	-.079	.112	.050	.048	-.436
4	-.063	.093	.055	.085	.091	-.324	.019	.119	-.018	.323
5	.093	-.007	.018	-.093	-.073	-.195	.047	-.090	-.127	.029
6	-.012	.039	-.010	-.009	.071	-.089	-.015	.023	.110	.054
7	-.016	.022	.029	-.005	.054	.006	.032	.009	.045	.071
8	-.020	.039	.029	.020	.008	-.017	.020	.003	.063	.011
9	.002	-.004	-.024	-.001	.092	-.026	.008	-.012	-.005	.026
10	-.037	-.010	-.003	.013	.002	.137	.000	.030	-.010	.018

*** STABILITY PARAMETER

*
* XI = -.2132 *
*
****

C-5

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 176 ALPHA-MCL = 6.0 PDP RUN.PT 34.03
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33064
POINT 3 SIGMA = 135. V-REF = 201.66
COMPUTED FREQUENCY = 15.49, K = .1207

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.079	6.97	12.456	8.51	7.751	10.66	5.317	12.08	4.013	8.63	3.791	4.80	2.835	359.18
2	1.346	280.05	.170	283.80	.140	107.16	.203	104.33	.137	95.08	.024	111.94	[illegible]	86.81
3	4.032	13.18	.235	96.79	.115	349.47	.060	340.61	.097	340.40	.056	299.01	.109	319.88
4	.625	102.97	.238	312.01	.059	59.24	.058	55.39	.061	300.49	.031	331.25	.037	356.13
5	.423	43.28	.063	17.91	.024	122.24	.044	28.24	.018	139.52	.018	137.83	.023	322.72
6	.300	269.37	.076	117.04	.019	219.31	.024	282.03	.040	275.76	.020	316.13	.027	271.52
7	.204	29.85	.066	199.24	.014	342.43	.015	344.49	.025	194.60	.014	245.18	.014	241.63
8	.155	350.04	.018	40.47	.033	87.19	.010	75.29	.020	93.08	.015	116.13	.015	114.04
9	.116	132.47	.022	141.38	.019	125.62	.013	149.11	.016	165.37	.010	163.44	.011	142.90
10	.154	273.17	.032	232.36	.035	252.13	.031	256.72	.015	257.49	.014	252.87	.006	238.26

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.031	359.71	1.111	344.96	.817	6.94
2	.033	218.33	.153	266.66	.212	174.29
3	.063	213.94	.066	208.63	.022	345.27
4	.053	37.76	.019	277.44	.013	85.74
5	.020	156.26	.015	161.40	.007	200.92
6	.020	345.62	.009	298.62	.008	270.74
7	.010	231.37	.013	229.09	.009	286.03
8	.008	100.48	.011	182.78	.005	292.18
9	.012	157.99	.005	149.61	.005	176.52
10	.003	285.46	.002	36.15	.003	308.14

N	CN-MAG	PHIN
1	5.117	7.34
2	.026	147.15
3	.158	5.32
4	.033	20.35
5	.021	54.54
6	.021	273.44
7	.006	254.04
8	.012	74.45
9	.015	146.12
10	.019	257.36

N	CM-MAG	PHIM
1	1.217	10.09
2	.016	308.37
3	.069	18.91
4	.006	59.18
5	.010	40.42
6	.004	234.10
7	.002	42.57
8	.004	20.14
9	.003	130.04
10	.005	257.42

*** STABILITY PARAMETER

XI = -.2132

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.063	42.49	3.191	9.87	13.060	183.64	2.468	177.52	9.005	321.62
2	.554	116.84	.418	131.97	1.692	279.69	.153	95.58	1.015	169.26
3	.153	46.92	.195	29.04	.601	187.53	.123	24.02	.438	276.26
4	.112	123.93	.101	57.21	.337	285.66	.121	81.08	.324	93.14
5	.093	355.86	.095	281.15	.208	249.45	.102	297.54	.130	167.18
6	.040	107.43	.013	220.02	.114	308.45	.028	122.34	.123	25.96
7	.027	125.04	.030	349.78	.054	6.42	.033	16.04	.084	57.31
8	.044	117.52	.035	34.53	.018	295.28	.020	9.63	.064	10.07
9	.005	300.64	.024	182.16	.096	344.08	.014	306.15	.026	100.42
10	.038	195.16	.013	101.65	.137	89.03	.030	89.50	.021	118.58

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 178 ALPHA-MCL = 6.0 PDP RUN.PT 34.05
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33079
POINT 5 SIGMA = 135. V-REF = 201.71
COMPUTED FRECUENCY = 19.09, K = .1487

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-25.415	-2.261	-6.620	-.340	-3.920	-.202	-2.730	-.095	-2.509	.124	-2.648	.409	-2.390	.567
2	-.068	.265	-.203	-.013	-.147	-.157	-.154	-.209	-.186	-.222	-.198	-.110	-.178	-.108
3	-3.679	-.424	-.034	.082	-.056	.076	-.045	.060	-.106	.075	-.018	.062	-.014	.060
4	.357	-.702	.081	.132	.037	-.009	-.002	.012	.002	.105	-.005	.074	-.020	.061
5	-.418	-.204	-.080	-.025	-.000	-.022	-.035	-.018	.001	-.009	.006	-.025	.001	-.016
6	-.058	.172	.001	-.049	.001	.006	.003	.024	.027	.033	.007	.021	.001	.026
7	-.119	-.098	.038	-.003	-.020	-.008	-.028	.000	-.028	-.006	-.005	-.006	.006	-.003
8	-.119	.169	-.013	.032	-.004	.006	-.005	.016	-.003	.014	-.006	.007	-.011	.006
9	-.021	-.138	-.007	-.024	-.009	-.019	-.001	-.012	.008	-.019	.002	-.016	.010	-.007
10	-.042	.023	.007	-.004	.012	-.001	.014	.009	.020	-.001	.017	.003	.000	.014

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-1.970	.473	-1.576	.375	-1.316	.347	9.639	1.715	5.904	1.477	3.787	1.349	2.516	1.179
2	-.153	-.100	-.154	-.124	-.164	-.137	.209	-1.184	-.147	-.440	-.107	-.097	-.128	-.070
3	-.012	.051	-.006	.051	-.002	.045	.086	-.108	.000	.239	.027	-.009	.012	-.000
4	-.026	.055	-.030	.051	-.032	.046	-.122	.009	.021	.010	-.057	.035	-.045	.031
5	.001	-.015	-.000	-.015	-.003	-.013	.007	.064	-.016	.019	.000	.024	-.001	.014
6	.005	.022	-.009	.025	.001	.020	.024	.000	.017	.001	.005	.002	.001	-.001
7	-.004	.003	.006	.000	.003	.006	-.002	.032	-.007	.028	-.017	.034	-.029	.030
8	-.008	.002	-.010	.005	-.006	.004	-.005	-.016	-.005	-.010	-.010	-.004	-.009	-.004
9	.009	-.002	.011	-.003	.006	.002	-.005	.025	.002	.020	.010	.015	.008	.018
10	-.000	.012	-.005	.017	-.002	.011	.005	-.000	-.001	.002	-.015	.005	-.017	-.005

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.435	.893	1.118	.916	.418	.704	.031	.618	-.585	.296	-.456	.515
2	-.133	-.063	-.156	-.097	-.100	.016	-.164	-.128	-.137	-.238	-.292	-.080
3	.016	.014	.028	.002	.070	-.024	-.055	.045	-.038	.044	.018	.035
4	-.032	.029	-.050	.021	-.020	.027	-.018	.053	-.039	.019	-.027	.044
5	-.003	.005	-.014	.015	.009	-.024	-.012	.011	-.008	.003	-.002	-.006
6	.005	.005	.013	.004	-.011	-.006	.011	.003	-.000	-.001	.008	.002
7	-.016	.025	-.033	.032	-.016	.020	-.022	.025	-.015	.014	-.016	.012
8	-.003	-.002	-.007	.000	-.006	-.002	-.001	.001	-.001	-.001	.000	.001
9	.004	.010	.005	.010	.005	.013	-.000	.008	-.001	.005	-.000	.005
10	-.007	-.002	-.008	-.004	-.005	-.001	-.002	-.002	.002	-.002	.005	-.003

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 178 ALPHA-MCL = 6.0 PDP RUN.PT 34.05
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33079
POINT 5 SIGMA = 135. V-REF = 201.71
COMPUTED FREQUENCY = 19.09, K = .1487

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	25.515	185.08	6.629	182.74	3.925	182.95	2.731	181.99	2.513	177.16	2.679	171.22	2.456	166.66
2	.274	104.34	.203	163.57	.215	226.92	.259	233.64	.290	229.96	.227	209.16	.208	211.37
3	3.703	186.58	.069	112.88	.094	126.31	.075	126.83	.129	144.77	.064	105.88	.062	103.31
4	.792	297.59	.155	58.44	.038	346.02	.012	101.86	.105	88.96	.075	93.91	.064	106.58
5	.456	206.06	.084	197.03	.022	269.55	.040	207.45	.009	275.93	.025	283.05	.016	273.43
6	.181	108.61	.049	271.37	.006	81.21	.024	82.95	.043	50.40	.022	71.59	.026	86.87
7	.154	219.49	.039	354.81	.022	201.83	.028	179.07	.029	191.99	.039	239.46	.007	331.74
8	.207	125.13	.034	111.61	.007	123.07	.017	107.39	.014	101.67	.010	128.15	.012	151.85
9	.139	261.22	.026	253.28	.021	245.85	.012	264.09	.021	294.00	.016	275.56	.013	324.95
10	.046	151.60	.039	329.94	.012	355.22	.016	33.54	.020	356.99	.017	9.95	.014	88.83

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.026	166.51	1.620	166.61	1.361	165.22	9.791	10.09	6.386	14.04	4.020	19.60	2.778	25.11
2	.183	213.05	.198	218.83	.213	219.83	1.202	280.02	.463	251.51	.144	222.34	.146	208.51
3	.052	103.65	.051	96.95	.046	92.70	.139	308.54	.239	89.90	.029	340.97	.012	357.69
4	.061	115.34	.060	120.64	.056	124.95	.122	175.86	.024	24.47	.067	147.93	.055	145.03
5	.015	273.70	.015	268.69	.013	257.27	.065	83.52	.025	129.26	.024	89.70	.014	95.11
6	.023	77.30	.025	90.97	.020	85.88	.024	.06	.017	4.65	.006	22.81	.001	302.42
7	.005	193.29	.006	1.19	.007	62.87	.032	94.51	.029	104.69	.038	117.23	.042	134.67
8	.009	166.75	.011	150.47	.009	155.07	.017	251.55	.012	242.42	.011	231.72	.010	201.56
9	.009	346.24	.011	344.47	.006	17.79	.025	100.48	.020	84.78	.018	56.09	.019	65.66
10	.012	90.66	.018	167.43	.011	100.23	.005	359.48	.002	108.76	.016	159.85	.016	197.99

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.690	31.89	1.445	39.33	.819	59.33	.619	87.11	.656	153.18	.658	131.53
2	.147	205.40	.154	211.72	.101	171.17	.206	217.84	.274	240.07	.302	195.30
3	.021	42.17	.028	3.43	.074	341.06	.071	140.51	.058	131.15	.040	62.31
4	.043	138.21	.054	157.53	.034	126.80	.056	109.13	.043	154.08	.052	121.49
5	.006	118.19	.020	132.88	.026	290.19	.017	137.14	.009	159.27	.006	249.91
6	.007	46.40	.014	15.89	.012	207.67	.012	13.26	.001	249.74	.008	17.91
7	.030	121.46	.046	135.57	.026	127.77	.033	131.53	.021	136.51	.020	144.37
8	.004	205.87	.003	175.03	.006	197.06	.002	151.41	.001	219.26	.001	89.86
9	.011	68.72	.011	60.76	.014	68.46	.008	90.07	.006	97.86	.005	92.80
10	.007	196.11	.009	205.70	.005	189.65	.003	227.13	.003	322.55	.006	328.64

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 178 ALPHA-MCL = 6.0 PDP RUN.PT 34.05
RUN 34 ALPHA-BAR = 2.0 Q-COMP = .33079
POINT 5 SIGMA = 135. V-REF = 201.71
COMPUTED FREQUENCY = 19.09, K = .1487

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	35.054	3.977	12.524	1.817	7.707	1.551	5.245	1.274	3.944	.768	3.766	.507	2.807	.138
2	.277	-1.449	.056	-.427	.040	.060	.025	.139	.053	.159	.041	.014	.078	.124
3	3.765	.316	.035	.157	.083	-.085	.057	-.060	.121	-.060	.045	-.060	.084	-.084
4	-.489	.711	-.060	-.123	-.093	.045	-.042	.020	-.034	-.076	-.045	-.054	.000	-.034
5	.426	-.269	.064	.044	.000	.047	.034	.033	-.004	.014	-.019	.039	.008	-.008
6	.083	-.172	.016	.050	.004	-.004	-.002	-.025	-.023	-.028	.036	-.018	-.012	-.031
7	.116	.130	-.046	.031	.003	.042	-.001	.029	.013	.031	-.028	.040	-.022	.024
8	.114	-.185	.007	-.042	-.007	-.010	-.004	-.020	-.001	-.016	.003	-.007	-.005	-.008
9	.017	.162	.009	.044	.019	.035	.009	-.030	-.005	.029	.034	.025	-.005	.020
10	.048	-.023	-.008	.006	-.027	.006	-.030	-.015	-.027	-.001	-.025	-.007	-.005	-.015

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.001	.145	.990	-.079	.860	.168
2	-.011	-.028	.017	-.114	-.128	.057
3	-.043	-.005	-.032	-.007	.021	-.010
4	.008	-.002	-.008	-.033	.005	-.002
5	-.013	.027	-.008	.018	.001	.007
6	.006	-.020	.000	-.026	.006	-.018
7	-.018	.022	-.021	.014	-.019	.006
8	.007	-.001	.009	-.006	.006	-.003
9	-.009	.011	-.012	.008	-.006	.003
10	-.002	-.014	.008	-.019	.007	-.014

N	CNREAL	CNIMAG
1	5.100	.779
2	.030	-.015
3	.162	-.024
4	-.044	-.004
5	.018	.031
6	.001	-.020
7	-.009	.030
8	.006	-.017
9	.001	.027
10	-.012	-.008

N	CMREAL	CMIMAG
1	1.213	.205
2	.012	-.028
3	.063	.006
4	-.014	.010
5	.010	.007
6	.001	.000
7	.003	.004
8	.001	-.005
9	.002	.005
10	-.002	.001

*** STABILITY PARAMETER

* XI = -.2046 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.553	1.602	3.019	.715	-12.703	-.601	-2.337	.125	7.079	-5.561
2	-.178	-.003	-.420	-.017	.024	-2.013	-.158	-.231	-.839	-.207
3	-.028	.052	.064	.093	-.695	.032	-.003	.059	-.128	-.378
4	-.066	.013	.009	.016	.146	-.355	-.012	.079	-.093	.210
5	.027	-.011	-.002	-.006	-.124	-.073	.012	-.033	-.117	.141
6	-.017	.010	-.004	.012	.030	-.065	.004	.027	.083	.015
7	-.029	-.015	-.008	.027	.006	-.034	-.002	.001	-.017	.042
8	.012	-.026	-.016	-.003	.011	.038	-.008	.008	.023	-.031
9	-.012	.014	.003	.004	-.001	-.022	.003	-.014	-.011	.046
10	-.007	.014	.002	.001	-.031	.016	.008	.007	.021	-.017

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 178 ALPHA-MCL = 6.0 POP RUN.PT 34.05
RUN 34 ALPHA-PAR = 2.0 G-COMP = .33079
POINT 5 SIGMA = 135. V-REF = 201.71
COMPUTED FREQUENCY = 19.09, K = .1487

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	35.279	6.47	12.655	8.25	7.862	11.38	5.398	13.65	4.018	11.02	3.830	7.67	2.811	2.81
2	1.475	280.82	.431	277.47	.072	56.06	.141	79.76	.157	71.43	.044	18.27	.146	57.81
3	3.779	4.80	.161	77.48	.119	314.29	.083	313.17	.136	333.56	.075	306.95	.119	315.00
4	.863	124.51	.137	243.98	.104	154.47	.047	155.16	.084	245.87	.070	229.95	.034	270.41
5	.503	32.29	.078	34.26	.047	89.63	.047	43.66	.015	104.78	.044	116.21	.01[illegible]	313.42
6	.191	295.79	.053	72.37	.006	318.90	.025	265.01	.036	231.13	.019	288.67	.033	248.96
7	.174	48.09	.055	145.74	.042	86.13	.029	91.59	.034	68.24	.049	124.85	.032	132.58
8	.217	301.61	.043	279.81	.012	235.12	.020	257.92	.016	268.15	.038	290.21	.009	302.98
9	.163	84.14	.045	78.31	.039	61.29	.031	72.78	.029	98.98	.026	81.12	.021	104.92
10	.053	334.34	.010	142.89	.027	166.55	.034	205.49	.027	181.68	.026	195.41	.016	249.95

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.007	4.15	.994	355.42	.876	11.05
2	.030	248.39	.115	278.62	.140	155.95
3	.044	186.97	.033	192.27	.023	333.41
4	.008	346.38	.034	256.25	.006	339.14
5	.030	116.58	.019	113.96	.007	83.76
6	.021	287.52	.026	270.13	.019	289.35
7	.029	129.62	.025	145.83	.020	163.22
8	.007	350.31	.011	324.62	.009	339.99
9	.014	129.99	.014	143.90	.007	152.89
10	.014	262.94	.020	291.82	.016	297.21

N	CN-MAG	PHIN
1	5.159	8.68
2	.034	333.05
3	.164	351.52
4	.044	184.73
5	.035	59.55
6	.020	273.39
7	.031	106.40
8	.018	288.35
9	.027	87.09
10	.015	212.99

N	CM-MAG	PHIM
1	1.230	9.57
2	.031	293.36
3	.063	5.77
4	.017	146.15
5	.012	35.42
6	.001	1.41
7	.005	54.77
8	.005	279.24
9	.006	67.25
10	.002	147.60

*** STABILITY PARAMETER

****
* XI = -.2046 *
****

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.231	45.89	3.103	13.31	12.717	182.71	2.341	176.93	9.003	321.85
2	.178	180.96	.421	182.38	2.013	270.69	.280	235.58	.864	193.83
3	.059	118.02	.113	55.47	.696	177.34	.059	93.19	.400	251.27
4	.068	168.62	.018	60.75	.384	292.29	.080	98.87	.230	113.76
5	.029	337.08	.007	252.34	.144	210.51	.035	290.90	.183	129.68
6	.019	149.00	.013	107.58	.072	294.78	.026	81.03	.085	10.14
7	.033	207.52	.028	106.34	.034	280.08	.003	160.92	.046	111.54
8	.029	294.77	.016	191.66	.039	74.35	.011	137.85	.039	307.07
9	.018	131.49	.005	54.49	.022	268.15	.015	280.80	.048	103.74
10	.016	117.23	.003	29.52	.035	152.67	.011	41.07	.027	320.24

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 180 ALPHA-MCL = 6.0 PDP RUN.PT 35.01
RUN 35 ALPHA-BAR = 2.0 Q-COMP = .32482
POINT 1 SIGMA = 180. V-REF = 199.36
COMPUTED FREQUENCY = 9.07, K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-26.600	1.041	-7.195	-.002	-4.060	-.235	-2.849	-.360	-2.666	-.401	-2.915	-.430	-2.669	-.434
2	.204	1.855	-.237	.286	-.212	.225	-.227	.097	-.258	.024	-.221	.113	-.209	.093
3	-3.991	.912	.291	-.260	.050	-.172	.083	-.185	.024	-.173	.117	-.212	.109	-.210
4	-.195	-.650	.174	.261	.039	-.050	.039	-.006	.100	.088	.083	.057	.087	.053
5	-.558	.375	-.148	.192	.026	.065	-.030	.082	.001	.079	.005	.068	-.003	.070
6	-.006	.058	-.251	-.234	-.143	-.091	-.121	-.081	-.095	-.072	-.126	-.091	-.116	-.082
7	-.050	.102	.098	-.075	-.014	.019	-.008	.030	.026	-.023	.026	-.002	.025	-.001
8	.324	.287	.073	.020	.032	-.008	.056	.011	.017	-.003	.020	-.012	.016	-.011
9	-.104	-.014	-.011	-.014	-.015	.004	.002	-.013	.010	-.028	.002	-.017	.002	-.016
10	.122	.166	-.012	.017	-.004	.015	.013	.017	-.016	.008	-.009	.006	-.003	.005

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.123	-.423	-1.694	-.425	-1.334	-.367	11.011	-.550	7.388	-.641	4.476	-.162	3.131	-.099
2	-.217	.090	-.239	.056	-.251	.065	-.415	-1.704	-.807	-.824	-.256	-.096	-.265	-.009
3	.108	-.207	.125	-.219	.110	-.226	.017	-.255	.015	.215	.112	-.252	.120	-.250
4	.090	.053	.095	.056	.098	.052	.100	.049	.168	-.029	.105	.060	.103	.058
5	-.004	.069	-.009	.073	-.000	.064	-.018	.004	-.037	.147	-.010	.035	-.014	.039
6	-.114	-.082	-.120	-.084	-.117	-.074	-.113	-.032	-.036	-.104	-.128	-.067	-.121	-.079
7	.030	.004	.033	.002	.033	.002	.010	-.025	-.035	-.021	.014	-.002	.019	.005
8	.012	-.010	.013	-.015	.010	-.015	-.009	-.006	.025	.008	.010	-.008	.015	-.006
9	.007	-.013	.006	-.015	.006	-.011	.014	.010	.002	-.019	.007	-.002	.008	-.006
10	-.001	.009	.000	.008	-.002	.009	.017	-.006	.005	.015	.011	.004	.008	.007

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.872	-.076	1.556	-.079	.727	-.067	.405	-.069	-.161	-.242	-.003	-.138
2	-.242	.021	-.291	.044	-.217	.152	-.283	.022	-.207	-.054	-.443	-.022
3	.127	-.226	.174	-.290	.186	-.276	.081	-.205	.055	-.182	.146	-.209
4	.088	.045	.085	.042	.109	.073	.138	.085	.090	.035	.061	.071
5	-.007	.041	-.014	.067	.029	.002	-.014	.079	-.013	.072	-.015	.056
6	-.116	-.067	-.138	-.088	-.151	-.084	-.101	-.077	-.119	-.080	-.116	-.072
7	.017	.009	.027	.021	.025	.009	.036	.014	.032	.018	.032	.012
8	.017	-.010	.034	-.018	-.005	-.015	.025	-.024	.008	-.017	.013	-.015
9	.007	-.009	.002	-.020	.008	.004	.007	-.009	.004	-.005	.005	-.010
10	.007	.005	.004	.011	.012	.014	.007	.009	.001	.012	.004	.016

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 180   ALPHA-MCL = 6.0   PDP RUN.PT 35.01
RUN 35   ALPHA-PAR = 2.0   Q-COMP = .32482
POINT 1   SIGMA = 180.   V-REF = 199.86
COMPUTED FREQUENCY = 9.07, K = .0713

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	26.620	177.76	7.195	180.01	4.066	183.32	2.872	187.20	2.696	188.55	2.946	188.39	2.704	189.25
2	1.666	83.72	.371	129.57	.309	133.32	.247	156.81	.259	174.70	.248	152.95	.229	156.07
3	4.094	167.12	.390	318.21	.179	286.33	.203	294.12	.175	277.84	.242	298.82	.236	297.33
4	.678	253.29	.314	56.25	.063	308.14	.040	351.95	.133	41.19	.101	34.30	.102	31.41
5	.681	146.59	.242	127.59	.070	68.05	.088	110.16	.079	89.25	.068	85.95	.070	92.11
6	.058	96.34	.343	222.94	.170	212.45	.145	213.87	.119	217.03	.155	215.74	.142	215.36
7	.119	120.49	.123	322.73	.024	125.22	.031	104.94	.034	318.56	.026	355.86	.026	356.65
8	.432	41.52	.076	15.38	.033	346.25	.057	11.43	.018	351.39	.023	329.84	.020	324.91
9	.105	187.91	.018	230.81	.016	163.68	.013	279.46	.030	289.05	.017	275.32	.016	278.55
10	.206	53.51	.021	125.13	.016	103.37	.021	5 .35	.017	152.15	.011	143.28	.006	121.46

X =	.774-UPPER		.860-UPPER		.910-UPPER		1.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.165	191.26	1.746	194.10	1.383	195.40	11.024	357.14	7.416	355.04	4.479	357.93	3.133	358.19
2	.235	157.37	.254	160.22	.260	165.48	1.754	256.32	1.153	225.59	.274	200.62	.265	181.91
3	.234	297.64	.252	299.76	.251	295.96	.255	273.71	.215	86.10	.275	293.91	.277	295.71
4	.104	30.27	.111	30.60	.111	27.94	.112	26.34	.170	350.27	.121	29.59	.118	29.18
5	.069	93.33	.074	96.90	.064	90.17	.018	167.43	.152	104.01	.036	106.63	.042	109.16
6	.140	215.94	.146	214.94	.138	212.40	.118	195.61	.110	250.98	.145	207.57	.144	213.03
7	.031	6.73	.033	4.17	.033	3.10	.027	290.89	.040	210.52	.014	352.24	.020	14.37
8	.016	321.01	.020	311.19	.018	304.98	.011	211.81	.026	16.95	.013	322.84	.016	339.39
9	.015	299.56	.016	291.66	.013	297.06	.017	35.01	.020	274.72	.008	343.76	.010	320.95
10	.009	95.52	.008	69.86	.009	101.54	.018	342.47	.015	71.54	.012	20.20	.011	40.84

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.873	357.67	1.558	357.10	.736	354.77	.411	350.27	.291	236.43	.138	268.76
2	.242	175.60	.294	171.30	.265	145.04	.284	175.54	.214	194.49	.443	182.84
3	.259	299.38	.338	330.94	.333	303.99	.220	291.48	.190	286.95	.255	304.92
4	.099	27.30	.095	26.21	.131	33.67	.162	31.59	.097	21.21	.094	49.34
5	.042	99.48	.069	102.03	.029	4.53	.080	99.77	.073	100.27	.058	104.81
6	.134	209.88	.163	212.67	.173	209.12	.127	217.37	.143	213.71	.137	211.96
7	.019	28.72	.034	38.00	.027	18.58	.039	21.73	.037	28.62	.035	19.77
8	.020	331.30	.039	331.58	.016	253.03	.035	315.55	.019	294.38	.019	311.18
9	.011	310.78	.020	276.95	.009	25.62	.012	305.70	.007	304.33	.011	293.73
10	.009	35.78	.012	70.16	.018	49.51	.012	50.02	.012	83.58	.016	75.19

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 180 ALPHA-MCL = 6.0 PDP RUN.PT 35.01
RUN 35 ALPHA-PAR = 2.0 Q-COMP = .32482
POINT 1 SIGMA = 180. V-REF = 199.86
COMPUTED FREQUENCY = 9.07, K = .0713

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	37.610	-1.591	14.583	-.640	8.536	.073	5.980	.261	4.537	.325	4.470	.351	3.396	.368
2	-.619	-3.559	-.570	-1.110	-.044	-.321	-.038	-.106	.016	-.003	-.070	-.068	-.008	.059
3	4.007	-1.167	-.276	.475	.061	-.080	.037	-.065	.103	-.053	.057	-.078	.078	-.066
4	.295	.699	-.007	-.290	.066	.109	.064	.063	-.012	-.042	.001	-.015	.022	.020
5	.550	-.371	.111	-.045	-.037	-.030	.017	-.043	-.008	-.038	-.019	-.001	.031	-.068
6	-.107	-.089	.215	.129	.015	.024	-.000	.002	-.022	.005	-.012	.002	-.035	-.002
7	.070	-.128	-.133	.054	.027	-.021	.027	-.025	-.009	.032	.001	.023	-.000	.010
8	-.333	-.292	-.048	-.012	-.022	.000	-.041	-.017	-.000	-.007	.014	-.007	-.021	-.004
9	.118	.024	.013	-.005	.023	-.007	.006	.007	-.002	.020	.001	-.003	.006	.020
10	-.105	-.171	.017	-.003	.015	-.011	-.005	-.010	.023	-.002	.013	.005	.015	.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.529	.353	1.533	.183	1.331	.229
2	-.066	-.068	.032	-.139	-.191	-.087
3	-.028	.002	-.070	.037	.036	.017
4	.048	.032	-.005	-.021	-.037	.019
5	-.010	.011	-.004	-.001	-.015	-.008
6	.012	.005	.001	.004	.000	.002
7	.006	.011	-.001	.015	-.000	.010
8	.012	-.014	-.005	-.002	.003	.000
9	-.001	.004	-.002	.009	-.001	.001
10	.008	.000	.001	.003	.006	.007

N	CNREAL	CNIMAG
1	5.870	.150
2	-.098	-.256
3	.143	-.042
4	.026	.019
5	.021	-.036
6	.005	.010
7	-.001	.006
8	-.020	-.016
9	.008	.006
10	.007	-.006

N	CMREAL	CMIMAG
1	1.317	-.059
2	-.020	-.095
3	.055	-.008
4	.008	.005
5	.011	-.008
6	.005	.003
7	-.001	-.003
8	-.008	-.005
9	.003	-.000
10	-.001	-.004

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.680	-.012	3.830	-.305	-13.654	.311	-2.432	-.340	9.808	-.771
2	-.347	.158	-.195	.313	-.614	-1.475	-.268	.096	-.544	-.417
3	.270	-.260	.332	-.349	-.749	-.191	.165	-.279	.663	-.061
4	.093	.128	[illegible]	.015	.008	-.438	.094	.071	-.112	-.175
5	-.043	.045	-.036	.089	-.094	.159	-.008	.061	.238	.036
6	-.062	-.002	-.172	-.066	-.177	-.219	-.156	-.096	-.312	-.192
7	.006	.013	.016	-.005	.034	.064	.027	.001	.078	-.019
8	.030	.033	.022	.030	.041	-.006	.026	.003	.026	-.008
9	-.001	-.010	.030	.014	.031	-.076	.009	-.019	.082	-.006
10	.013	-.014	-.014	.025	.043	.100	-.017	.019	-.001	.019

*** STABILITY PARAMETER

XI = .0388

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 180 ALPHA-MCL = 6.0 PDP RUN.PT 35.01
RUN 35 ALPHA-PAR = 2.0 Q-COMP = .32482
POINT 1 SIGMA = 180. V-REF = 199.86
COMPUTED FREQUENCY = 9.07, K = .0713

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	37.644	357.58	14.597	357.49	8.536	.49	5.986	2.50	4.549	4.09	4.464	4.49	3.416	6.18
2	3.612	260.14	1.248	242.81	.324	262.18	.113	250.28	.016	350.22	.098	224.52	.060	97.98
3	4.174	343.76	.550	120.19	.101	307.55	.075	300.03	.116	333.04	.097	336.22	.102	319.52
4	.759	67.12	.290	268.64	.128	58.97	.090	44.75	.044	253.59	.015	275.32	.030	41.41
5	.684	326.04	.120	338.02	.047	219.71	.046	291.07	.039	258.17	.039	182.18	.075	294.62
6	.139	219.85	.251	30.99	.028	59.13	.002	99.63	.022	167.74	.012	168.75	.035	183.04
7	.146	298.71	.143	157.85	.035	322.10	.037	317.58	.033	105.80	.023	87.39	.010	90.57
8	.443	221.28	.050	194.55	.022	179.68	.044	202.35	.007	269.41	.016	334.13	.021	190.35
9	.120	11.51	.014	337.36	.024	343.71	.009	48.84	.020	96.75	.003	286.00	.021	73.45
10	.201	238.46	.017	350.94	.019	322.28	.011	243.59	.023	353.92	.013	21.30	.017	30.11

X =	.774		.850		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.553	7.95	1.544	6.81	1.350	9.76
2	.095	225.96	.143	282.91	.210	204.45
3	.028	176.08	.079	152.06	.040	24.95
4	.058	33.95	.022	256.99	.041	153.30
5	.014	132.55	.004	190.70	.017	208.13
6	.013	22.20	.004	80.59	.002	85.79
7	.012	62.05	.015	93.31	.010	91.92
8	.019	310.97	.006	204.28	.003	1.08
9	.004	100.77	.010	102.96	.002	142.26
10	.008	2.11	.003	65.64	.009	50.09

N	CN-MAG	PHIN
1	5.872	1.47
2	.274	249.04
3	.149	343.78
4	.032	36.28
5	.042	299.64
6	.012	62.66
7	.006	103.33
8	.026	217.97
9	.010	38.79
10	.039	321.44

N	CM-MAG	PHIM
1	1.318	357.44
2	.097	258.26
3	.056	351.35
4	.010	33.42
5	.014	322.67
6	.006	31.13
7	.003	240.72
8	.010	209.76
9	.003	355.38
10	.004	253.25

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.660	359.75	3.342	355.45	13.657	178.69	2.455	187.95	9.838	355.51
2	.381	155.54	.369	121.94	1.598	247.38	.285	160.30	.685	217.52
3	.375	316.14	.481	313.58	.773	194.30	.324	300.59	.666	356.71
4	.153	53.86	.169	5.20	.438	271.10	.118	36.95	.208	237.38
5	.062	133.42	.096	112.29	.185	120.54	.061	97.58	.241	8.64
6	.211	252.83	.184	201.10	.281	231.07	.183	211.53	.366	211.61
7	.014	62.97	.017	344.17	.072	61.93	.027	1.83	.080	346.62
8	.045	47.92	.037	53.60	.042	351.85	.026	5.47	.027	342.26
9	.010	265.61	.033	25.57	.082	292.51	.020	294.96	.082	355.48
10	.019	313.33	.029	118.84	.108	66.87	.025	132.45	.019	93.44

*** STABILITY PARAMETER

* XI = .0588 *

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, ALL STATIONS

FILE 192 ALPHA-MCL = 6.0 PDP RUN,PT 35.03
RUN 35 ALPHA-PAP = 2.0 C-COMP = .32361
POINT 3 SIGMA = 183. V-REF = 199.48
COMPUTED FREQUENCY = 15.38, K = .1211

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X = N	.012-UPPER CPREAL	.012-UPPER CPIMAG	.062-UPPER CPREAL	.062-UPPER CPIMAG	.148-UPPER CPREAL	.148-UPPER CPIMAG	.261-UPPER CPREAL	.261-UPPER CPIMAG	.392-UPPER CPREAL	.392-UPPER CPIMAG	.530-UPPER CPREAL	.530-UPPER CPIMAG	.661-UPPER CPREAL	.661-UPPER CPIMAG
1	-26.957	2.145	-7.304	.654	-4.325	.280	-7.115	.020	-2.967	.021	-3.238	.036	-2.973	.005
2	.723	1.415	.158	.403	.119	.197	.386	.068	.041	-.012	.125	.060	.108	.017
3	-3.570	1.159	.133	-.160	.007	-.082	.008	-.081	-.053	-.023	.012	-.082	.007	-.024
4	-.435	-.635	.062	.089	-.047	-.078	-.043	-.033	.037	.034	.014	.010	.005	.022
5	-.637	.286	-.149	.066	-.058	-.023	-.071	.010	-.053	-.009	-.059	-.024	-.045	-.011
6	.237	.087	-.056	-.043	-.035	.015	-.000	.033	.029	.030	.001	.032	-.000	.028
7	-.14[illegible]	-.063	.027	-.033	-.023	-.011	-.014	.002	-.022	-.042	-.011	-.025	-.004	-.019
8	.177	.191	-.001	.040	-.003	.022	.016	.018	.021	.015	.001	.021	-.013	.022
9	.072	.081	.019	-.013	.013	.000	.021	-.017	.011	-.026	.023	-.016	.029	-.008
10	.305	-.039	-.014	-.038	-.005	-.021	.004	-.021	-.010	-.012	-.006	-.018	-.006	-.017

X = N	.774-UPPER CPREAL	.774-UPPER CPIMAG	.860-UPPER CPREAL	.860-UPPER CPIMAG	.910-UPPER CPREAL	.910-UPPER CPIMAG	.012-LOWER CPREAL	.012-LOWER CPIMAG	.062-LOWER CPREAL	.062-LOWER CPIMAG	.148-LOWER CPREAL	.148-LOWER CPIMAG	.261-LOWER CPREAL	.261-LOWER CPIMAG
1	-2.438	-.011	-2.307	.014	-1.651	.082	10.813	-.208	7.001	-.194	4.232	.447	2.834	.561
2	.075	.025	.038	.023	.077	.014	-.197	-1.827	-.567	-.599	.047	-.160	.051	-.062
3	.071	-.071	.001	-.092	-.007	-.077	-.235	-.028	.094	.238	-.058	-.096	-.037	-.101
4	.009	.016	.005	.012	.010	.012	.065	.079	.002	-.044	.032	.029	.025	.017
5	-.047	-.009	-.048	-.076	-.050	-.006	-.016	-.057	-.003	.044	-.051	-.020	-.056	-.022
6	-.001	.025	.004	.025	.001	.027	-.039	-.000	-.021	-.046	-.019	.036	-.014	.010
7	-.003	-.017	-.005	-.024	-.035	-.011	-.038	.073	-.020	.037	-.013	.028	-.013	-.006
8	-.001	.019	-.011	.021	-.001	.014	.034	-.006	.035	-.015	.030	-.013	.030	-.007
9	.024	-.005	.029	-.004	.019	-.005	-.028	-.014	-.021	-.015	-.009	-.009	-.005	-.009
10	-.002	-.017	-.008	-.020	-.004	-.011	.018	.073	.020	.014	.013	.003	.011	.001

X = N	.392-LOWER CPREAL	.392-LOWER CPIMAG	.530-LOWER CPREAL	.530-LOWER CPIMAG	.661-LOWER CPREAL	.661-LOWER CPIMAG	.774-LOWER CPREAL	.774-LOWER CPIMAG	.860-LOWER CPREAL	.860-LOWER CPIMAG	.910-LOWER CPREAL	.910-LOWER CPIMAG
1	1.593	.518	1.187	.645	.408	.579	.057	.598	-.595	.427	-.302	.371
2	.049	-.015	.074	[illegible]	.139	.794	.074	-.003	.063	-.103	-.063	.008
3	-.015	-.102	-.005	-.157	.023	-.162	-.055	-.059	.05[illegible]	-.032	.004	-.108
4	.017	.004	-.009	.075	.036	.013	.058	.014	.006	-.007	.015	.018
5	-.062	-.005	-.077	.010	-.066	-.050	-.065	.017	-.055	.013	-.062	-.007
6	[illegible]	.016	-.037	.019	-.027	.024	.015	.007	-.005	.025	-.005	.022
7	[illegible]	.002	-.017	.071	-.010	[illegible]	-.013	-.003	-.004	-.003	-.011	-.006
8	[illegible]	[illegible]	.034	[illegible]	.014	[illegible]	.024	[illegible]	.014	.004	.016	.004
9	[illegible]	[illegible]	[illegible]	-.011	[illegible]	-.001	[illegible]	-.007	.033	-.007	[illegible]	-.008
10	[illegible]	[illegible]	[illegible]	[illegible]	.012	[illegible]	[illegible]	[illegible]	.032	[illegible]	[illegible]	-.006

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 182 ALPHA-MCL = 6.0 POP RUN.PT 35.03
RUN 35 ALPHA-RAP = 2.0 C-COMP = .32361
POINT 3 SIGMA = 180. V-REF = 199.48
COMPUTED FREQUENCY = 15.38, K = .1211

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	27.242	175.45	7.333	174.98	4.334	176.30	3.117	178.34	2.967	179.57	3.238	179.36	2.973	179.93
2	1.599	62.93	.433	65.62	.231	58.83	.109	38.46	.045	335.26	.139	25.52	.109	9.17
3	3.627	161.67	.238	309.67	.032	274.88	.061	275.50	.053	203.87	.082	278.06	.074	275.16
4	.769	235.69	.139	55.36	.091	236.59	.054	217.60	.051	42.64	.017	35.97	.013	66.11
5	.698	155.84	.163	155.97	.062	201.62	.072	172.17	.054	189.56	.056	205.90	.046	194.45
6	.225	22.84	.071	217.72	.016	108.16	.033	93.66	.042	46.36	.032	88.67	.028	90.40
7	.154	[illegible]	.066	284.59	.025	206.29	.018	170.09	.043	242.10	.027	246.17	.019	257.32
8	.263	47.25	.047	91.58	.022	98.67	.024	48.46	.026	34.32	.021	87.89	.026	120.75
9	.051	88.64	.073	326.92	.013	.65	.023	335.59	.028	293.66	.028	325.48	.030	344.59
10	.033	277.35	.047	250.35	.022	256.69	.021	281.95	.015	230.30	.019	250.84	.018	249.57

X =	.774-UPPER		.863-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.438	183.26	2.037	179.60	1.633	177.16	10.815	358.90	7.004	356.47	4.256	6.03	2.889	11.20
2	.098	14.99	.091	14.46	.078	7.37	1.818	263.78	.825	226.55	.167	283.50	.080	309.77
3	.071	270.95	.082	271.72	.077	264.61	.237	185.81	.255	68.37	.112	239.07	.107	250.02
4	.018	62.09	.023	66.94	.015	49.39	.172	50.70	.044	271.98	.044	42.45	.030	33.49
5	.048	191.00	.045	187.31	.050	167.07	.059	254.56	.044	93.93	.055	201.53	.060	201.84
6	.025	93.18	.025	81.39	.023	96.41	.039	180.32	.053	246.77	.027	161.91	.017	155.99
7	.017	260.05	.024	257.13	.012	246.11	.034	103.50	.042	118.44	.016	149.32	.014	232.77
8	.019	93.21	.024	117.31	.014	93.27	.035	345.91	.039	375.83	.033	336.09	.031	346.25
9	.024	349.38	.029	352.60	.020	344.70	.031	206.84	.025	216.09	.017	224.29	.011	239.74
10	.017	261.80	.021	249.29	.012	251.62	.029	57.84	.024	34.28	.013	12.92	.011	2.63

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.863-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.675	18.03	1.347	28.61	.708	54.87	.591	54.48	.692	181.97	.479	129.15
2	.051	342.59	.076	.71	.168	34.11	.077	342.09	.121	301.71	.063	173.19
3	.103	261.89	.157	268.28	.163	278.05	.080	225.98	.059	212.89	.108	272.25
4	.018	13.09	.017	152.72	.038	19.61	.060	13.69	.005	337.75	.027	51.00
5	.062	185.06	.074	172.11	.082	217.28	.067	155.72	.055	166.59	.062	166.10
6	.016	170.38	.019	96.27	.036	139.11	.016	24.12	.025	102.07	.023	103.77
7	.011	167.51	.012	174.70	.010	171.62	.013	191.66	.005	221.04	.013	207.62
8	.012	345.01	.041	331.70	.014	1.67	.025	337.93	.014	17.31	.019	13.40
9	.013	251.12	.014	227.44	.036	354.17	.028	292.33	.011	320.34	.010	301.72
10	.038	335.22	.009	349.70	.014	325.29	.009	302.72	.005	294.63	.008	310.12

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 182 ALPHA-MCL = 6.0 PDP RUN.PT 35.03
RUN 75 ALPHA-PAR = 2.0 O-COMP = .32361
POINT 3 SIGMA = 180. V-REF = 190.48
COMPUTED FREQUENCY = 15.38, K = .1211

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.022		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	37.771	-2.353	14.305	-.348	8.557	.167	5.949	.471	4.559	.497	4.421	.609	3.381	.574
2	-.920	-3.222	-.725	-1.002	-.072	-.357	-.034	-.130	.008	.004	-.048	-.060	.031	.077
3	3.255	-1.187	-.039	.398	-.065	-.015	-.044	-.020	.039	-.079	-.016	-.076	.016	-.088
4	.570	.713	-.061	-.173	.080	.107	.068	.049	-.020	-.030	-.023	-.005	.050	.000
5	.621	-.342	.146	-.022	.007	.003	.015	-.032	-.009	.004	-.023	.035	-.021	-.038
6	-.246	-.087	.035	-.003	-.014	-.009	-.014	-.023	-.032	-.014	-.003	-.014	-.027	-.005
7	.172	.096	-.042	.121	.009	.019	.000	-.008	.012	.045	-.001	.026	-.006	.020
8	-.143	-.200	.036	-.056	.033	-.035	.015	-.025	-.000	-.020	.035	-.041	.027	-.022
9	-.030	-.095	-.041	-.173	-.023	-.009	-.027	.001	-.015	.017	-.033	.005	-.023	.007
10	.014	.061	.034	.052	.018	.024	.037	.021	.017	.008	.015	.016	.018	.009

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.494	.599	1.458	.413	1.348	.289
2	-.071	-.243	-.025	-.125	-.140	-.007
3	-.055	.013	-.051	.050	.011	-.031
4	.050	-.002	.001	-.014	.005	.006
5	-.019	.026	-.007	.019	-.012	-.000
6	.016	-.019	-.009	.000	-.057	-.001
7	-.010	.015	.002	.021	-.007	.005
8	.075	-.029	.025	-.017	.019	-.017
9	-.071	-.002	-.021	-.003	-.014	-.007
10	.007	.010	.010	.015	.009	.007

N	CNREAL	CNIMAG
1	5.842	.275
2	-.108	-.230
3	.083	-.044
4	.031	.025
5	.021	-.012
6	-.016	-.013
7	.001	.027
8	.017	-.032
9	-.023	-.001
10	.014	.017

N	CMREAL	CMIMAG
1	1.313	-.083
2	-.033	-.093
3	.046	-.006
4	.008	.012
5	.016	-.007
6	-.003	-.002
7	.002	.005
8	-.002	-.005
9	-.001	-.002
10	.001	.003

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.175		.530		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.129	.911	3.374	.571	-13.713	1.189	-2.729	.273	9.668	-.335
2	.076	.212	.366	.262	-.197	-1.491	.133	.043	.017	-.342
3	.041	-.129	.147	-.142	-.712	-.156	.019	-.109	.481	-.063
4	-.017	.042	.058	.001	.002	-.465	.016	.015	-.208	-.130
5	-.001	-.093	-.086	-.249	-.192	.112	-.068	-.024	.151	-.202
6	-.024	-.075	-.053	-.001	.020	-.088	-.009	.027	-.093	-.038
7	.027	-.013	-.040	-.001	.031	-.046	-.015	-.020	-.019	-.078
8	.022	-.012	.010	-.021	-.007	.097	.004	.017	.033	-.019
9	.007	.018	.029	-.006	.016	.003	.027	-.021	-.022	-.025
10	.024	.019	.029	-.001	-.021	-.028	-.003	-.019	.022	.015

*** STABILITY PARAMETER

XI = .0828

ORIGINAL PAGE IS
OF POOR QUALITY

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 182 ALPHA-MCL = 6.0 PDP RUN.PT 35.03
RUN 35 ALPHA-BAR = 2.0 C-COMP = .32361
POINT 3 SIGMA = 180. V-REF = 199.48
COMPUTED FREQUENCY = 15.38, K = .2211

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	37.844	356.44	14.330	356.61	8.559	1.12	5.969	4.52	4.585	6.22	4.462	7.85	3.429	9.64
2	3.351	254.07	1.237	234.11	.364	258.60	.134	255.16	.098	26.24	.077	231.11	.083	68.09
3	3.474	347.01	.400	95.47	.066	192.69	.049	204.42	.098	295.95	.077	257.87	.090	280.43
4	.871	54.98	.147	245.55	.133	53.37	.084	36.13	.036	236.57	.023	192.99	.030	.66
5	.779	331.14	.147	351.26	.037	22.26	.035	294.88	.009	157.6	.042	123.72	.044	241.34
6	.261	199.59	.036	355.87	.016	214.32	.027	239.62	.035	294.06	.014	258.52	.028	190.07
7	.144	36.14	.128	109.22	.021	64.06	.008	277.66	.045	75.52	.026	91.18	.021	106.63
8	.245	234.39	.067	302.98	.048	313.82	.029	307.29	.021	269.70	.054	310.46	.035	321.57
9	.039	252.59	.041	183.95	.025	202.43	.027	179.92	.022	130.80	.033	170.60	.024	162.41
10	.062	77.42	.062	56.79	.030	53.59	.022	72.20	.019	25.70	.022	46.76	.020	25.97

X =	.774		.860		.913	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.555	13.51	1.516	15.21	1.379	12.11
2	.053	246.35	.128	258.76	.140	181.01
3	.057	167.26	.072	135.53	.033	290.47
4	.050	357.56	.014	273.81	.008	54.16
5	.032	124.90	.020	108.97	.012	182.05
6	.024	311.31	.009	179.90	.007	186.05
7	.017	123.77	.021	84.89	.008	145.61
8	.037	311.15	.030	325.17	.021	332.67
9	.021	196.71	.021	188.30	.015	191.08
10	.012	52.40	.018	57.87	.010	30.26

N	CN-MAG	PHIN
1	5.849	2.69
2	.254	244.94
3	.094	332.25
4	.040	38.32
5	.024	331.33
6	.020	219.71
7	.027	87.06
8	.036	297.68
9	.023	181.76
10	.022	50.62

N	CM-MAG	PHIM
1	1.315	356.39
2	.098	250.40
3	.047	352.63
4	.014	54.91
5	.017	336.12
6	.004	209.60
7	.005	68.62
8	.005	248.19
9	.002	227.70
10	.003	69.50

*** STABILITY PARAMETER

* XI = .0828 *

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.530		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.316	23.16	3.422	9.60	13.764	175.05	2.742	174.28	9.673	358.02
2	.226	7[illegible].33	.402	40.56	1.494	262.43	.137	17.83	.343	272.79
3	.135	287.77	.254	315.85	.729	192.32	.110	280.08	.485	352.49
4	.045	112.23	.058	.65	.465	270.24	.022	44.11	.245	212.10
5	.090	269.48	.099	209.61	.222	149.62	.072	199.55	.252	306.66
6	.025	192.65	.053	131.51	.090	232.36	.029	137.79	.101	202.40
7	.030	334.95	.040	131.12	.056	313.96	.032	241.46	.042	243.02
8	.022	355.32	.023	295.05	.097	91.50	.013	71.75	.019	278.19
9	.019	69.49	.011	323.60	.016	10.57	.034	322.12	.041	237.33
10	.031	38.65	.010	352.29	.035	232.31	.019	260.02	.027	34.26

DCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 134 ALPHA-MCL = 6.0 PCP RUN.PT 35.05
RUN 35 ALPHA-PAR = 2.0 Q-COMP = .32390
POINT 5 SIGMA = 180. V-REF = 199.54
COMPUTED FREQUENCY = 18.97, K = .1493

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-26.975	2.157	-7.215	.312	-4.239	-.136	-3.021	-.387	-2.854	-.535	-3.139	-.540	-2.851	-.556
2	.807	1.319	.184	.392	.150	.160	.104	.049	.048	-.035	.135	.029	.113	-.003
3	-3.233	1.585	.087	-.115	-.020	-.040	-.019	-.057	-.066	.017	-.036	-.062	-.009	-.055
4	-.459	-.500	.066	.079	-.057	-.031	-.056	.006	.035	.054	.034	.046	-.005	.042
5	-.374	.346	-.023	.087	.013	-.007	.002	.023	.010	.003	.034	-.011	.011	-.008
6	.042	-.020	-.078	-.054	-.016	-.006	-.002	.009	.024	.004	.003	.009	-.006	.014
7	-.082	.081	.029	-.033	.000	.011	.004	.014	-.028	-.022	.006	-.012	.022	-.010
8	.089	.063	-.007	.003	-.010	-.004	.001	-.005	-.007	.003	-.038	-.002	-.009	-.006
9	.008	.013	-.007	.001	-.005	.009	-.001	.001	.021	-.007	.031	-.000	.000	.001
10	.022	.036	.006	-.017	.013	-.008	.016	-.009	.019	-.010	.015	-.007	.005	.003

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	-2.307	-.566	-1.842	-.563	-1.515	-.463	10.904	-.784	7.103	-.691	4.406	.049	2.971	.172
2	.098	.009	.099	.011	.075	-.007	-.275	-2.057	-.487	-.482	.067	-.184	.070	-.077
3	-.020	-.055	-.017	-.058	-.021	-.057	-.216	-.081	.118	.118	-.083	-.082	-.053	-.087
4	-.007	.038	-.007	.036	.000	.037	.067	.078	-.024	-.000	.023	.038	.008	.030
5	.010	-.036	.008	-.005	.004	-.036	-.011	-.016	.026	.009	-.016	-.012	-.014	-.010
6	-.001	.014	-.005	.015	-.002	.018	.021	.061	-.010	.005	-.006	.029	-.009	.017
7	.014	-.011	.019	-.038	.013	-.008	.027	.054	-.003	.005	-.013	-.002	-.012	-.000
8	-.006	-.004	-.019	-.003	-.008	-.002	-.017	-.035	.004	-.001	-.038	.009	-.011	.004
9	.000	.001	.004	.001	.001	.002	.015	-.002	-.011	.006	.005	.002	.010	.003
10	.006	.000	.003	.007	.005	.001	.009	.027	-.001	.005	-.013	.008	-.012	-.000

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	1.714	.166	1.323	.205	.546	.186	.210	.140	-.421	.034	-.173	-.117
2	.062	-.022	.095	-.008	.166	.067	.088	-.033	.054	-.107	-.029	.028
3	-.038	-.085	-.035	-.132	-.019	-.134	-.063	-.021	-.047	-.004	-.028	-.077
4	.034	.018	-.027	.029	.022	.019	.038	.018	-.010	.018	.001	.031
5	-.007	-.001	-.001	.009	-.018	-.037	.010	.008	.007	.006	-.003	-.039
6	-.005	.012	-.004	.015	-.017	.021	.005	-.003	-.002	.010	-.034	.011
7	-.009	.001	-.012	.003	-.036	-.000	-.013	-.001	-.004	.001	-.011	-.003
8	-.002	.002	-.007	-.002	-.007	.017	-.005	-.001	-.004	-.001	.000	.000
9	-.000	.009	.001	.001	.007	.002	.005	-.000	-.000	.001	-.002	.001
10	-.004	-.003	-.007	-.006	-.001	-.006	.009	-.007	.007	-.010	.008	-.011

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 184 ALPHA-MCL = 6.0 PDP RUN.PT 35.05
RUN 35 ALPHA-BAR = 2.0 C-COMP = .32393
POINT 5 SIGMA = 180. V-REF = 199.50
COMPUTED FREQUENCY = 18.97, K = .1493

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, PER RADIAN ***

X =	.012-UPPER		.062-UPPER		.148-UPPER		.261-UPPER		.392-UPPER		.530-UPPER		.661-UPPER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	27.061	175.43	7.222	177.52	4.242	181.83	3.046	187.30	2.933	190.51	3.185	189.77	2.904	191.05
2	1.546	58.54	.433	64.89	.219	46.76	.115	25.50	.059	323.52	.138	12.12	.113	358.72
3	3.601	153.89	.144	306.89	.045	243.87	.060	251.23	.068	165.20	.063	264.04	.055	260.73
4	.678	227.45	.103	50.13	.065	208.90	.057	174.18	.064	57.42	.046	85.45	.042	97.30
5	.509	137.24	.090	105.19	.015	333.77	.023	84.67	.010	16.86	.013	305.38	.014	325.57
6	.047	334.84	.095	214.68	.019	199.70	.009	100.38	.025	10.35	.009	72.24	.015	112.89
7	.115	135.35	.044	311.43	.011	87.82	.014	72.80	.035	217.57	.014	294.44	.024	336.54
8	.121	43.04	.005	135.96	.011	198.66	.005	282.44	.007	154.00	.039	296.60	.011	211.49
9	.015	60.67	.007	172.28	.013	117.31	.002	143.68	.007	281.95	.001	339.23	.001	48.90
10	.042	58.04	.019	290.53	.015	326.67	.018	329.09	.021	331.15	.016	335.35	.006	34.65

X =	.774-UPPER		.860-UPPER		.910-UPPER		.012-LOWER		.062-LOWER		.148-LOWER		.261-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.375	193.78	1.926	197.01	1.584	197.00	10.932	355.89	7.137	354.44	4.406	.64	2.976	3.32
2	.099	5.37	.091	6.70	.076	355.00	2.076	262.40	.085	224.68	.196	290.00	.104	312.51
3	.058	250.23	.060	253.23	.060	249.29	.231	200.52	.167	44.95	.117	224.75	.102	238.46
4	.038	100.37	.037	100.99	.037	89.43	.103	49.30	.024	180.56	.044	58.61	.031	74.32
5	.012	331.87	.009	327.70	.008	303.83	.019	235.47	.027	18.88	.021	217.13	.017	215.22
6	.014	94.64	.016	108.99	.018	97.70	.064	70.77	.011	154.11	.029	101.86	.020	117.35
7	.017	321.95	.021	336.24	.015	328.59	.060	63.79	.006	124.64	.013	188.32	.012	182.20
8	.009	203.73	.011	197.50	.006	193.90	.039	243.43	.004	350.22	.012	132.16	.012	157.88
9	.001	64.50	.004	9.91	.002	59.27	.015	351.75	.012	151.25	.005	24.44	.010	18.62
10	.006	2.81	.008	68.10	.006	11.90	.028	107.97	.005	99.85	.015	148.32	.012	180.33

X =	.392-LOWER		.530-LOWER		.661-LOWER		.774-LOWER		.860-LOWER		.910-LOWER	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	1.722	5.53	1.339	8.82	.577	18.85	.252	33.70	.423	175.32	.209	214.24
2	.066	340.11	.095	355.06	.178	21.90	.094	339.21	.120	296.58	.040	136.37
3	.093	245.92	.137	255.27	.136	261.86	.066	198.12	.047	184.64	.082	250.23
4	.018	77.83	.037	127.96	.029	40.18	.042	25.26	.020	118.60	.031	88.93
5	.008	189.32	.009	95.86	.043	245.45	.013	40.23	.010	41.88	.009	251.39
6	.014	109.08	.016	104.18	.027	128.86	.006	331.04	.011	103.56	.012	107.96
7	.009	172.42	.018	168.87	.006	182.24	.013	186.21	.004	160.47	.011	197.29
8	.002	136.73	.004	218.34	.012	124.61	.005	185.54	.004	194.68	.000	52.62
9	.000	122.98	.002	40.79	.007	14.78	.005	359.74	.001	107.04	.002	156.18
10	.005	212.95	.007	246.54	.006	260.88	.007	272.46	.012	304.51	.013	306.05

OCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 184 ALPHA-MCL = 6.0 PDP RUN.PT 35.05
RUN 35 ALPHA-BAR = 2.0 G-COMP = .32380
POINT 5 SIGMA = 180. V-REF = 199.54
COMPUTED FREQUENCY = 18.97, K = .1493

FOURIER COEFFICIENTS, REAL & IMAGINARY
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	37.878	-2.941	14.318	-1.003	8.645	.184	5.992	.560	4.598	.701	4.462	.746	3.397	.743
2	-1.081	-3.376	-.671	-.674	-.083	-.343	-.033	-.126	.014	.013	-.040	-.037	.053	.069
3	3.017	-1.666	.032	.233	-.063	-.042	-.034	-.030	.028	-.102	-.028	-.070	-.010	-.080
4	.526	.578	-.090	-.079	.080	.069	.065	.024	-.031	-.037	-.026	-.017	.028	-.023
5	.353	-.362	.049	-.078	-.030	-.006	-.016	-.033	-.017	-.004	-.009	.020	-.029	-.032
6	-.021	.081	.069	.059	.012	.035	-.007	.009	-.029	.009	-.007	.007	-.011	.007
7	.109	-.027	-.032	.038	-.014	-.013	-.017	-.014	.019	.023	-.023	.016	-.028	.009
8	-.106	-.118	.002	-.004	.003	.012	-.012	.010	.005	-.002	.005	.000	.002	.015
9	.008	-.016	-.004	.005	.009	-.007	.011	.002	-.002	.007	.001	.001	.006	.001
10	-.031	-.009	-.007	.022	-.025	.016	-.027	.009	-.023	.008	-.017	.000	-.006	-.010

X =	.774		.860		.910	
N	DELCPR	DELCPI	DELCPR	DELCPI	DELCPR	DELCPI
1	2.517	.706	1.421	.598	1.343	.346
2	-.011	-.043	-.037	-.118	-.104	.034
3	-.043	.034	-.029	.054	-.006	-.020
4	.045	-.019	-.003	-.019	.000	-.006
5	-.001	.014	-.001	.011	-.007	-.002
6	.006	-.017	.003	-.005	-.001	-.007
7	-.026	.009	-.023	.010	-.024	.004
8	.003	.003	.007	.002	.008	.002
9	.004	-.001	-.004	.001	-.003	-.001
10	-.006	-.007	.004	-.017	.002	-.012

N	CNREAL	CNIMAG
1	5.874	.352
2	-.101	-.216
3	.076	-.072
4	.026	.009
5	.002	-.021
6	-.001	.012
7	-.012	.007
8	-.001	.001
9	.003	.001
10	-.014	.001

N	CMREAL	CMIMAG
1	1.320	-.102
2	-.036	-.092
3	.046	-.021
4	.008	.011
5	.006	-.009
6	.002	.005
7	.003	-.001
8	-.002	-.002
9	.001	-.000
10	-.003	.003

*** STABILITY PARAMETER

```
*                *
* XI =     .1023 *
*                *
******************
```

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG	CPREAL	CPIMAG
1	2.428	.533	3.557	.038	-13.560	.778	-2.567	-.275	10.347	-1.191
2	.133	.210	.425	.179	-.235	-1.528	.151	.004	.213	-.395
3	.027	-.166	.071	-.198	-.707	-.076	-.015	-.077	.509	-.175
4	-.043	.020	-.010	-.027	-.346	-.449	-.006	.037	-.240	-.051
5	.006	.008	.003	-.024	-.026	.077	.014	-.004	.144	-.162
6	.002	.017	-.004	.013	-.042	-.105	-.010	.013	-.062	.030
7	-.034	.005	-.003	-.002	.025	.021	.005	-.008	.005	-.040
8	.019	-.033	-.003	.006	-.016	.007	-.014	-.001	-.013	-.010
9	.004	.013	-.013	.001	.006	.004	.001	-.002	-.011	-.001
10	-.016	.003	.003	-.007	.002	.010	.006	-.001	.024	.006

QCWT PERIODICITY TEST
MODE 1 -- CENTER BLADE DATA, WALL STATIONS

FILE 184 ALPHA-MCL = 6.0 PDP RUN.PT 35.05
RUN 35 ALPHA-PAR = 2.0 Q-COMP = .32380
POINT 5 SIGMA = 180. V-REF = 199.54
COMPUTED FREQUENCY = 18.97, K = .1493

FOURIER COEFFICIENTS, AMPLITUDE AND PHASE ANGLE
*** BLADE PRESSURES, NORMAL FORCE, AND MOMENT, PER RADIAN ***

X =	.012		.062		.148		.261		.392		.530		.661	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	37.992	355.56	14.353	355.99	8.647	1.22	6.019	5.33	4.051	8.66	4.524	9.49	3.477	12.34
2	3.545	252.24	1.101	232.48	.353	256.39	.130	255.27	.019	41.47	.054	223.10	.087	52.62
3	3.446	331.09	.235	82.26	.076	213.68	.045	221.23	.106	285.03	.075	247.99	.000	262.64
4	.782	47.70	.120	221.35	.105	40.84	.069	20.61	.048	229.85	.031	213.44	.036	320.81
5	.512	315.10	.092	302.27	.030	191.23	.037	244.08	.018	193.64	.021	113.58	.043	227.29
6	.083	104.54	.091	40.64	.037	71.70	.011	130.44	.030	163.09	.009	135.06	.013	148.24
7	.112	340.02	.050	130.68	.019	224.18	.022	220.67	.029	50.60	.028	145.61	.030	161.86
8	.158	227.97	.008	332.62	.013	78.24	.015	141.46	.005	341.04	.005	2.16	.015	80.91
9	.017	295.77	.007	129.77	.011	324.73	.011	10.98	.007	102.81	.002	59.84	.007	11.07
10	.032	195.85	.023	108.29	.030	147.49	.029	161.17	.024	161.47	.017	179.12	.011	238.49

X =	.774		.860		.910	
N	DELCPM	PHI	DELCPM	PHI	DELCPM	PHI
1	2.614	15.66	1.541	22.82	1.386	14.44
2	.044	256.02	.123	252.70	.110	161.86
3	.055	141.73	.061	118.49	.021	252.88
4	.049	336.73	.019	261.91	.006	271.89
5	.014	92.55	.011	93.82	.008	196.89
6	.018	290.10	.005	299.67	.007	259.94
7	.028	160.53	.025	156.95	.024	169.48
8	.004	45.50	.007	19.06	.009	15.79
9	.004	350.64	.004	170.47	.004	196.88
10	.010	231.28	.018	283.13	.012	280.21

N	CN-MAG	PHIN
1	5.884	3.43
2	.239	244.93
3	.105	316.72
4	.028	18.28
5	.021	274.53
6	.012	95.91
7	.014	150.90
8	.001	133.31
9	.003	13.06
10	.014	175.09

N	CM-MAG	PHIM
1	1.324	355.57
2	.099	248.63
3	.050	335.25
4	.013	53.45
5	.011	304.15
6	.006	73.13
7	.003	345.76
8	.003	218.43
9	.001	347.37
10	.004	133.51

*** WALL PRESSURES, PER RADIAN ***

WALL NO.	W1		W2		W4		W6		W10	
GAP FRACTION	-.125		.000		.125		.500		1.125	
N	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI	CP-MAG	PHI
1	2.486	12.37	3.557	.61	13.582	176.72	2.581	186.12	10.416	353.43
2	.249	57.78	.461	22.89	1.546	261.26	.151	1.64	.449	298.37
3	.168	279.25	.210	289.71	.711	186.11	.079	259.05	.538	341.06
4	.048	154.63	.028	249.92	.452	264.19	.038	99.76	.245	191.92
5	.010	51.97	.024	277.53	.081	108.59	.014	343.15	.217	311.64
6	.017	84.50	.014	105.65	.113	248.16	.017	126.82	.069	154.42
7	.035	171.76	.004	213.99	.032	39.81	.010	301.92	.040	276.99
8	.038	299.77	.007	113.90	.018	157.45	.014	184.71	.016	218.64
9	.013	74.24	.013	176.53	.007	29.09	.002	296.52	.011	134.04
10	.016	168.47	.007	292.34	.010	78.23	.006	348.38	.025	15.15

*** STABILITY PARAMETER

****
* XI = .1023 *
****