USE OF SYSTEM IDENTIFICATION TECHNIQUES FOR IMPROVING AIRFRAME FINITE ELEMENT MODELS USING TEST DATA

Final Report

Submitted to

NASA Langley Research Center

Contract NAG-1-1007

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March 1991

SUMMARY

A method for using system identification techniques to improve airframe finite element models using test data has been developed and demonstrated. The method uses linear sensitivity matrices to relate changes in selected physical parameters to changes in the total system matrices. The values for these physical parameters were determined using constrained optimization with singular value decomposition. The method was confirmed using both simple and complex finite element models for which pseudo-experimental data was synthesized directly from the finite element model. The method was then applied to a real airframe model which incorporated all of the complexities and details of a large finite element model and for which extensive test data was available. The method was shown to work, and the differences between the identified model and the measured results were considered satisfactory.

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NOMENCLATURE

$\mathbf{c}$: coefficient matrix
$\mathbf{C}$: damping matrix
$\mathbf{C_A}$: damping matrix for analytical model
$\mathbf{c_i}$: grouped element damping matrix
$\mathbf{f(\lambda)}$: lambda matrix
$\mathbf{K}$: stiffness matrix
$\mathbf{K_A}$: stiffness matrix for analytical model
$\mathbf{k_i}$: grouped element stiffness matrix
$\mathbf{M}$: mass matrix
$\mathbf{M_A}$: mass matrix for analytical model
$\mathbf{m_i}$: grouped element mass matrix
$\mathbf{q(t)}$: displacements at the n degrees of freedom
$\mathbf{Q(t)}$: n independent forces applied at each DOF
$\mathbf{U}$: $\mathbf{Z_1\Lambda}$
$\mathbf{U_I}$: imaginary component of $\mathbf{U}$
$\mathbf{U_R}$: real component of $\mathbf{U}$
$\mathbf{V}$: $\mathbf{Z_2\Lambda}$
$\mathbf{V_I}$: imaginary component of $\mathbf{V}$
$\mathbf{V_R}$: real component of $\mathbf{V}$
$\mathbf{W}$: $\mathbf{Z_2}$
$\mathbf{W_I}$: imaginary component of $\mathbf{W}$
$\mathbf{W_R}$: real component of $\mathbf{W}$
$\mathbf{y(t)}$: redefined displacement vector
$\mathbf{Y(t)}$: redefined applied force vector
$\mathbf{Y_1}$: $-(d\mathbf{U_R}^T\mathbf{M_A}+d\mathbf{V_R}^T\mathbf{C_A}+d\mathbf{W_R}^T\mathbf{K_A})$
$\mathbf{Y_2}$: $-(d\mathbf{U_I}^T\mathbf{M_A}+d\mathbf{V_I}^T\mathbf{C_A}+d\mathbf{W_I}^T\mathbf{K_A})$
$\mathbf{Z_1,Z_2}$: special modal matrices defined in this paper
α : eigenvalue
α_i : adjustable physical mass quantities
β_i : adjustable physical damping quantities
γ_i : adjustable physical stiffness quantities
δ : real component of the complex eigenvalue
λ : eigenvalue
φ : modal matrix
Ω : imaginary component of the complex eigenvalue
$\varphi^{(r)}$: rth modal column
Ψ : n x 2n rectangular modal matrix
η : modal coordinates matrix
Φ : modal matrix
d( ) : differences between experimental data and analytical data

INTRODUCTION

Background

The vast bulk of the work reported to date on identification of structural dynamic systems has focused on identifying mathematical models that reproduce test results, but little consideration has been given to the physical basis for the identified system equations. Typically, the identification procedures make systematic adjustments to the system equation, commonly to the stiffness and/or mass matrices but also to the damping matrix, so that the identified eigenvalues and eigenvectors reproduce as closely as possible the results measured in tests. The result of this process is almost inevitably identified mass, stiffness and damping matrices that are fully populated, that is, which have nonzero values for almost all elements. Such matrices, while capable of producing plausible eigenvalues and eigenvectors, can nonetheless be physically implausible in the sense that the large numbers of nonzero elements throughout the system matrices implies direct connectivity among the degrees of freedom that does not exist physically.

Identified mathematical models that are based on physically implausible system matrices may be quite acceptable if the objective of the study is to develop a *simulation* model. However, such results for analysis purposes are generally unsatisfactory because it is difficult or impossible to relate specific features of the physical system to the analysis results. This problem is particularly troublesome when the objective of the identification of a system model from experimental measurements is an accurate system model that, in turn, will be used to make modifications to or improvements in the original physical system. Such an example might be the modification of an existing aircraft structure to accommodate a new mission. In this case it would be desirable to formulate a structural model for the present structure, verify its accuracy against experimental measurements, and then use it as the basis for the modifications. When the verification process yields identified system matrices that are mathematically acceptable but physically implausible, the resulting model may be useless as the basis for future structural modifications.

The objective of the present work was to develop a method for identifying physically plausible finite element system models of airframe structures from test data. The assumed models were based on linear elastic behavior with general (nonproportional) damping. Physical plausibility of the identified system matrices was insured by restricting the identification process to designated physical parameters only and not simply to the elements of the system matrices themselves. For example, in a large finite element model the identified parameters might be restricted to the moduli for each of the different materials used in the structure. In the case of damping, a restricted set of damping values might be assigned to finite elements based on the material type and on the fabrication processes used. In this case, different damping values might be associated with riveted, bolted and bonded elements.

The method itself is developed first, and several approaches are outlined for computing the identified parameter values. The method is applied first to a simple structure for which the "measured" response is actually synthesized from an assumed model. Both stiffness and damping parameter values are accurately identified. The true test, however, is the application to a full-scale airframe structure. In this case, a NASTRAN model and actual measured modal parameters formed the basis for the identification of a restricted set of physically plausible stiffness and damping parameters.

Review of Previous Pertinent Work

Airframes are generally modelled using powerful finite element analysis packages such as *NASTRAN* that are capable of representing quite detailed aspects of the structural system. The accuracy of such models is determined by comparing the analytical results with flight or ground vibration test results. In the case of helicopter airframes, several recent efforts have focused on the correlation of *NASTRAN* model data with ground vibration test data[1-3]. The conclusions reached in these studies suggest that in cases where there is some degree of correlation, the model frequencies compare favorably with test frequencies, but generally only in the low frequency range

below about 15 Hz [1-2]. The frequency response functions at selected locations also compare reasonably well in this range. Outside this range the comparisons are generally unsatisfactory, and the eigenvectors do not usually compare favorably in either range.

Although there have been numerous contributions to the literature in the area of the identification of structural dynamic systems[4-25], the majority of reported methods are based on simply adjusting the elements of one or more of the **K**, **M**, and **C** matrices. While this approach is capable of yielding a system matrix whose eigenvalues and eigenvectors suitably match measured results, the methods generally lose all physical interpretability inherent in the original **K**, **M** and **C** matrices by not maintaining relationships among elements dictated by the model topology. These difficulties are compounded for large-scale models with thousands of degrees of freedom.

Kuo and Wada[25] used nonlinear sensitivity coefficients (NSC) in the identification procedure. Their sensitivity coefficients are between the system parameters and eigenvalues. In the present work the interest is in the change of system matrices as a function of physical variables of the structure. A different type of sensitivity coefficient between system matrices and physical variables has therefore been developed.

The most significant achievement in the present work[30] is to preserve the physical interpretability of the **M**, **C**, **K** matrices so that the identification can provide evidence of possible sources of erroneous modeling and point to specific regions of the model that are unduly sensitive and need additional consideration in modeling. The identification procedure developed in this paper is capable of adjusting physical quantities such as boundary conditions, moments of inertia, stiffnesses, damping or other selected physical parameters.

Mathematical Model

Basic Equations

Any linearly elastic structural system with n discrete degrees of freedom and with general viscous damping (either proportional or nonproportional) can be represented by n coupled ordinary differential equations that can be written in the following form[27]:

$$\mathbf{M}\ddot{\mathbf{q}}(t)+\mathbf{C}\dot{\mathbf{q}}(t)+\mathbf{K}\mathbf{q}(t)=\mathbf{Q}(t) \tag{1}$$

where **M**, **C**, and **K** are symmetric n x n inertia, damping, and stiffness matrices, respectively. In this formulation, $\mathbf{q}(t)$ are the displacements at the n degrees of freedom and $\mathbf{Q}(t)$ are the n independent forces applied at each degree of freedom.

In the case of undamped or proportionally damped systems, there are n complex conjugate pairs of eigenvalues and n distinct modes which are orthogonal with respect to **M** and **K**. Using a transformation matrix of the form:

$$\mathbf{q}(t)=\Psi\eta(t)$$

will allow decomposition of the original system equations (Eq. 1) into n decoupled equations that are straightforward to solve.

This transformation cannot be applied to the general nonproportionally damped problem in the same manner because for this case there are 2n complex modes, $\varphi^{(r)}$, and consequently 2n modal coordinates, $\eta_r(t)$, but there are only n physical coordinates, $q_i(t)$.

One can overcome this difficulty by writing Eq. (1) as a set of 2n ordinary differential equations in the form:

$$\begin{bmatrix} \mathbf{0} & \mathbf{M} \\ \mathbf{M} & \mathbf{C} \end{bmatrix}\begin{Bmatrix} \ddot{\mathbf{q}}(t) \\ \dot{\mathbf{q}}(t) \end{Bmatrix}+\begin{bmatrix} -\mathbf{M} & \mathbf{0} \\ \mathbf{0} & \mathbf{K} \end{bmatrix}\begin{Bmatrix} \dot{\mathbf{q}}(t) \\ \mathbf{q}(t) \end{Bmatrix}=\begin{Bmatrix} \mathbf{0} \\ \mathbf{Q}(t) \end{Bmatrix}. \tag{2}$$

If one then defines: $\mathbf{y}(t)=\begin{Bmatrix} \dot{\mathbf{q}}(t) \\ \mathbf{q}(t) \end{Bmatrix}$ and $\mathbf{Y}(t)=\begin{Bmatrix} \mathbf{0} \\ \mathbf{Q}(t) \end{Bmatrix}$, the above equations can be written as a set of 2n first order ordinary differential equations:

$$\begin{bmatrix} 0 & M \\ M & C \end{bmatrix}\dot{y}(t)+\begin{bmatrix} -M & 0 \\ 0 & K \end{bmatrix}y(t)=Y(t). \tag{3}$$

This formulation has the advantage that the modes obtained from the solution of the homogeneous equations, obtained by letting $Y(t)=0$ in Eqs. (3), are orthogonal, and hence can be used in conjunction with the expansion theorem to obtain the solution of the nonhomogeneous problem. The solution of the homogeneous equations is obtained by assuming as before a solution in the form:

$$y(t)=\Phi e^{\alpha t} \tag{4}$$

where Φ represents the spatial component of the solution and is a vector consisting of 2n constant elements. The corresponding eigenvalue problem can be written as:

$$\alpha\begin{bmatrix} 0 & M \\ M & C \end{bmatrix}\Phi+\begin{bmatrix} -M & 0 \\ 0 & K \end{bmatrix}\Phi=\begin{Bmatrix} 0 \\ 0 \end{Bmatrix} \tag{5}$$

The solution of the eigenvalue problem yields 2n eigenvalues, α_r, and 2n eigenvectors

$$\Phi_r^T=\begin{Bmatrix} \alpha_r\phi_r^T \\ \phi_r^T \end{Bmatrix}, \quad r=1,2,...2n. \tag{6}$$

Equations (5) and (6) provide the solution to Eq. (1), but in order to simplify the computational work, it is convenient to formally separate these complex equations into real and imaginary pairs. Following the approach introduced by Cheng[10], the real and imaginary components of the eigenvalues and eigenvectors are defined, respectively, as:

$$\begin{aligned} \lambda_r&=\delta_r+j\Omega_r \\ \Phi_r&=\Phi_{R_r}+j\Phi_{I_r} \end{aligned} \tag{7}$$

and in addition the following modal matrices are defined:

$$\begin{aligned} Z_1 &= (\mathrm{Re}(\alpha_1\phi_1), \mathrm{Im}(\alpha_1\phi_1), \mathrm{Re}(\alpha_2\phi_2), \mathrm{Im}(\alpha_2\phi_2), .. \\ &\quad \mathrm{Re}(\alpha_n\phi_n), \mathrm{Im}(\alpha_n\phi_n)) \\ Z_2 &= (\mathrm{Re}(\phi_1), \mathrm{Im}(\phi_1), \mathrm{Re}(\phi_2), \mathrm{Im}(\phi_2), ... \\ &\quad \mathrm{Re}(\phi_n), \mathrm{Im}(\phi_n)) \end{aligned} \tag{8}$$

Then the new system equation, Eq. (5), can now be rewritten with purely real terms in the form:

$$\Lambda\begin{bmatrix} 0 & M \\ M & C \end{bmatrix}\begin{Bmatrix} Z_1 \\ Z_2 \end{Bmatrix}+\begin{bmatrix} -M & 0 \\ 0 & K \end{bmatrix}\begin{Bmatrix} Z_1 \\ Z_2 \end{Bmatrix}=\begin{Bmatrix} 0 \\ 0 \end{Bmatrix} \tag{9}$$

where the eigenvector matrix, Λ, is a block diagonal matrix with blocks

$$\Lambda_r=\begin{bmatrix} \delta_r & \Omega_r \\ -\Omega_r & \delta_r \end{bmatrix} \tag{10}$$

along the diagonal and zeros elsewhere. Equation (9) can be further simplified by the introduction of U, V, and W as follows:

$$MU+CV+KW=0 \tag{11}$$

where $U = Z_1\Lambda$, $V = Z_2\Lambda$ and $W = Z_2$ or explicitly:

$$\begin{aligned} U &= (\mathrm{Re}(\alpha_1^2\phi_1), \mathrm{Im}(\alpha_1^2\phi_1), \mathrm{Re}(\alpha_2^2\phi_2), \mathrm{Im}(\alpha_2^2\phi_2), \\ &\quad ... \mathrm{Re}(\alpha_n^2\phi_n), \mathrm{Im}(\alpha_n^2\phi_n)) \\ V &= (\mathrm{Re}(\alpha_1\phi_1), \mathrm{Im}(\alpha_1\phi_1), \mathrm{Re}(\alpha_2\phi_2), \mathrm{Im}(\alpha_2\phi_2), ... \end{aligned}$$

$$\mathbf{W} = (\mathrm{Re}(\alpha_1\phi_1), \mathrm{Im}(\alpha_1\phi_1), \mathrm{Re}(\phi_2), \mathrm{Im}(\phi_2), \ldots \mathrm{Re}(\phi_n), \mathrm{Im}(\phi_n)) \tag{12}$$

Finally, Eq. (11) can be separated into explicit real and imaginary equations in the form of the following two equations.

$$\mathbf{M}\mathbf{U}_R+\mathbf{C}\mathbf{V}_R+\mathbf{K}\mathbf{W}_R=\mathbf{0} \tag{13}$$

$$\mathbf{M}\mathbf{U}_I+\mathbf{C}\mathbf{V}_I+\mathbf{K}\mathbf{W}_I=\mathbf{0} \tag{14}$$

These equations are same as Eqs. (5), but they do not include complex variables. For the identification procedure, it is much easier to use these equations than to use Eqs. (5) directly.

Identification Procedure

To begin, suppose that the mass, damping and stiffness matrices for the initial analytical model are given by $\mathbf{M}_A$ $\mathbf{C}_A$ and $\mathbf{K}_A$, respectively, and the identified mass, damping and stiffness matrices are given by **M**, **C** and **K**. In a similar manner, the eigenvectors and eigenvalues for the analytical model are given by $\mathbf{U}_A$, $\mathbf{V}_A$ and $\mathbf{W}_A$, while $\mathbf{U}_E$, $\mathbf{V}_E$ and $\mathbf{W}_E$ are the eigenvectors and eigenvalues determined from test data. From these definitions it follows that the relationship between the identified model (based on the test data) and the analytical model can be written as:

$$\mathbf{M}=\mathbf{M}_A+d\mathbf{M}, \quad \mathbf{C}=\mathbf{C}_A+d\mathbf{C}, \quad \mathbf{K}=\mathbf{K}_A+d\mathbf{K} \tag{15}$$

$$\mathbf{U}_E=\mathbf{U}_A+d\mathbf{U}, \quad \mathbf{V}_E=\mathbf{V}_A+d\mathbf{V}, \quad \mathbf{W}_E=\mathbf{W}_A+d\mathbf{W} \tag{16}$$

where d**M**, d**C**, d**K**, d**U**, d**V** and d**W** are the changes. The identified model satisfies equations (13) and (14), so substituting equations (15) and (16) into equation (13) and (14), yields:

$$d\mathbf{U}_R^T\mathbf{M}_A+d\mathbf{V}_R^T\mathbf{C}_A+d\mathbf{W}_R^T\mathbf{K}_A= -(\mathbf{U}_{ER}^T,\mathbf{V}_{ER}^T,\mathbf{W}_{ER}^T)(d\mathbf{M},d\mathbf{C},d\mathbf{K})^T \tag{17}$$

$$d\mathbf{U}_I^T\mathbf{M}_A+d\mathbf{V}_I^T\mathbf{C}_A+d\mathbf{W}_I^T\mathbf{K}_A= -(\mathbf{U}_{EI}^T,\mathbf{V}_{EI}^T,\mathbf{W}_{EI}^T)(d\mathbf{M},d\mathbf{C},d\mathbf{K})^T \tag{18}$$

These equations can be combined into the following form:

$$\begin{bmatrix} \mathbf{U}_{ER}^T & \mathbf{V}_{ER}^T & \mathbf{W}_{ER}^T \\ \mathbf{U}_{EI}^T & \mathbf{V}_{EI}^T & \mathbf{W}_{EI}^T \end{bmatrix} \begin{Bmatrix} d\mathbf{M} \\ d\mathbf{C} \\ d\mathbf{K} \end{Bmatrix} = \begin{Bmatrix} \mathbf{Y}_1 \\ \mathbf{Y}_2 \end{Bmatrix}, \tag{19}$$

where

$$\mathbf{Y}_1=-(d\mathbf{U}_R^T\mathbf{M}_A+d\mathbf{V}_R^T\mathbf{C}_A+d\mathbf{W}_R^T\mathbf{K}_A)$$
$$\mathbf{Y}_2=-(d\mathbf{U}_I^T\mathbf{M}_A+d\mathbf{V}_I^T\mathbf{C}_A+d\mathbf{W}_I^T\mathbf{K}_A). \tag{20}$$

The right side of these equations is known, since $\mathbf{M}_A$, $\mathbf{C}_A$, and $\mathbf{K}_A$ are given by the analytical model and $d\mathbf{U}_R^T$, $d\mathbf{V}_R^T$, $d\mathbf{W}_R^T$, $d\mathbf{U}_I^T$, $d\mathbf{V}_I^T$, and $d\mathbf{W}_I^T$, which are the differences of the eigenvalues and eigenvectors between the analytical model and the experimental data, are known. Finally, the matrix

$$\begin{bmatrix} \mathbf{U}_{ER}^T & \mathbf{V}_{ER}^T & \mathbf{W}_{ER}^T \\ \mathbf{U}_{EI}^T & \mathbf{V}_{EI}^T & \mathbf{W}_{EI}^T \end{bmatrix}$$

contains only experiment data.

The solution to these equations are the changes of d**M**, d**C** and d**K**. Because of matrix symmetry, the number of unknowns in Eq. (19) is 3 $n(n+1)/2$. The number of equations depends on the number of known experimental modes. Suppose this number is m, then the number of

equations are m x n. If the number of the equations is larger than or equal to the number of unknowns and the rank of this matrix is equal to 3 $n(n+1)/2$, normal least square methods can be used to solve these equations. Otherwise, singular value decomposition, or constrained optimization can be used to solve Eq. (19) for the changes dM, dC and dK, and these results can then be substituted into Eq. (15) to determine the identified **M**, **C** and **K** matrices. It should be noted that this approach is capable of handling nonproportional damping and underdetermined problems in which fewer modes are measured than are computed from the analytical model.

At this stage the usual identification procedure can be performed. The values of **M**, **C** and **K** can be put into the system equation, Eq. (1), and the experimental data can then be reproduced. However the identified **M**, **C** and **K** cannot be related to particular physical quantities in the actual airframe, because the changes occur throughout the entire **M**, **C** and **K** matrices . In order to preserve the physical interpretability of the identified system, it is necessary to develop a relationship between dM, dC and dK and adjustable physical quantities such as boundary conditions, moments of inertia, stiffnesses or other selected physical parameters. To this end, assume that each of the system matrices can be decomposed into the form:

$$\mathbf{M}=\sum_{i=1}^{N_m}\mathbf{m}_i\alpha_i, \quad \mathbf{C}=\sum_{i=1}^{N_c}\mathbf{c}_i\beta_i, \text{ and } \mathbf{K}=\sum_{i=1}^{N_k}\mathbf{k}_i\gamma_i \tag{21}$$

where α_i, β_i and γ_i are adjustable physical quantities and $\mathbf{m}_i$, $\mathbf{c}_i$ and $\mathbf{k}_i$ are grouped element matrices with common physical quantities.

For example, in the finite element model of actual airframe, there is an ej-th element , (see Fig. 1). The portion of the stiffness matrix that describes bending in the xz plane of an element, assumed to be a principal plane (Fig. 2), in NASTRAN, is given by

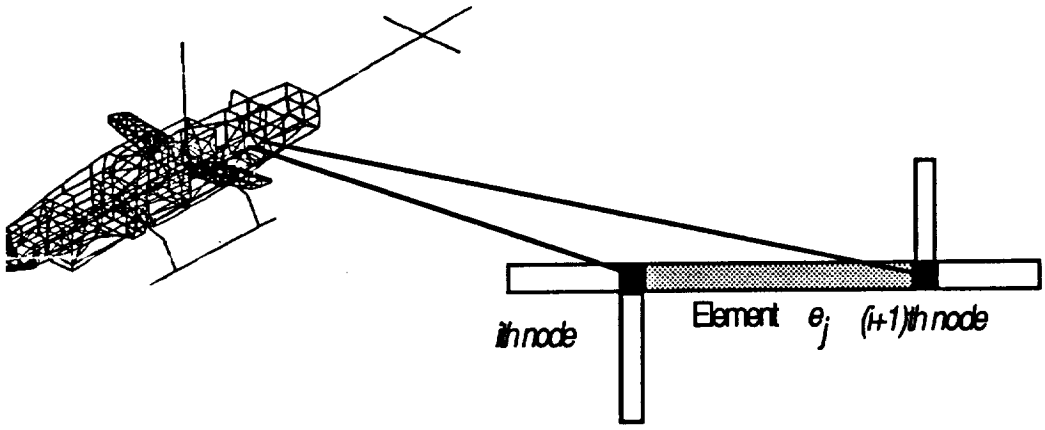

Fig. 1 Typical Bar Element, e_j, in Airframe Model

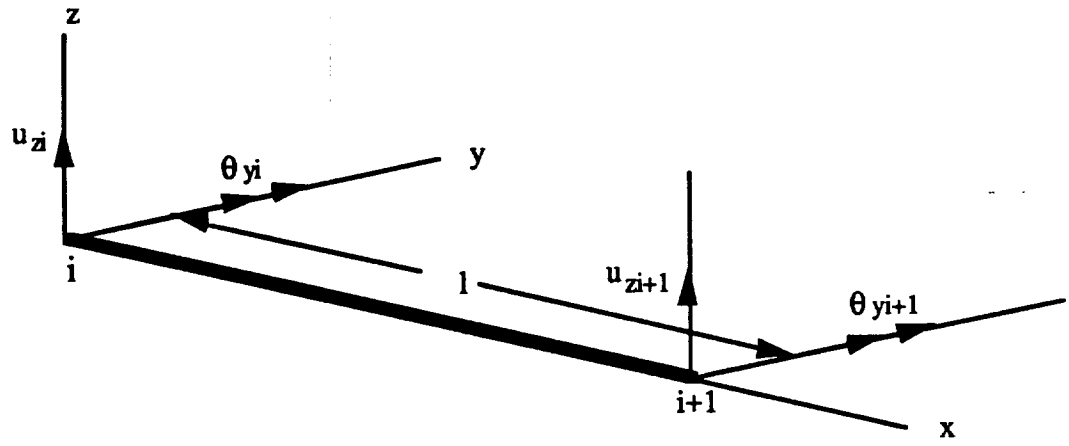

Fig. 2. Degrees of Freedom for Bending in the xz Plane

$$\begin{Bmatrix} F_{zi} \\ M_{zi} \\ F_{zi+1} \\ M_{zi+1} \end{Bmatrix} = \begin{bmatrix} R & -\frac{l}{2}R & -R & -\frac{l}{2}R \\ & \frac{l^2}{4}R+\frac{EI_y}{l} & \frac{l}{2}R & \frac{l^2}{2}R-\frac{EI_y}{l} \\ & \text{sym} & R & \frac{l}{2}R \\ & & & \frac{l^2}{4}R+\frac{EI_y}{l} \end{bmatrix} \begin{Bmatrix} u_{zi} \\ \theta_{zi} \\ u_{zi+1} \\ \theta_{zi+1} \end{Bmatrix}$$

where $R = \left(\frac{l}{k_z AG}+\frac{l^3}{12EI_y}\right)^{-1}$. If the modulus of elasticity, E, is taken here as an adjustable physical quantity, γ_k, then

$$K_{ej} = \begin{bmatrix} R & -\frac{l}{2}R & -R & -\frac{l}{2}R \\ & \frac{l^2}{4}R+\frac{EI_y}{l} & \frac{l}{2}R & \frac{l^2}{2}R-\frac{EI_y}{l} \\ & & R & \frac{l}{2}R \\ \text{sym} & & & \frac{l^2}{4}R+\frac{EI_y}{l} \end{bmatrix}$$

$$= \begin{bmatrix} r & -\frac{l}{2^r} & -r & -\frac{l}{2^r} \\ & \frac{l^2}{4^r}+\frac{I_y}{l} & \frac{l}{2^r} & \frac{l^2}{2^r}-\frac{I_y}{l} \\ & & r & \frac{l}{2^r} \\ \text{sym} & & & \frac{l^2}{4^r}+\frac{I_y}{l} \end{bmatrix} \gamma_k = k_{ej}\gamma_k \qquad (23)$$

where $\gamma_k = E$ and $r = \left(\frac{2(1+\nu)l}{k_z A} + \frac{l^3}{12 I_y}\right)^{-1}$. Suppose there are n elements which have the same E so that it is possible to express the stiffness as:

$$\mathbf{k}_k = \sum_{e_j=1}^{n} \mathbf{k}_{ej}$$

When the modulus changes from E to E+dE, the corresponding change in γ_k is to $\gamma_k + d\gamma_k$. Considering all different γ_k, **K** changes from **K** to **K**+d**K** where

$$d\mathbf{K} = \sum_{k=1}^{N_k} \mathbf{k}_k d\gamma_k$$

Similar procedures can be generalized to include the damping, other stiffness parameters, and mass.

$$d\mathbf{M} = \sum_{i=1}^{N_m} \frac{\partial \mathbf{M}}{\partial \alpha_i} d\alpha_i = \sum_{i=1}^{N_m} \mathbf{m}_i d\alpha_i$$

$$d\mathbf{C} = \sum_{i=1}^{N_c} \frac{\partial \mathbf{C}}{\partial \beta_i} d\beta_i = \sum_{i=1}^{N_c} \mathbf{c}_i d\beta_i \tag{24}$$

$$d\mathbf{K} = \sum_{i=1}^{N_k} \frac{\partial \mathbf{K}}{\partial \gamma_i} d\gamma_i = \sum_{i=1}^{N_k} \mathbf{k}_i d\gamma_i$$

Substituting these into Eq. (19) yields a set of linear algebra equations with unknowns $d\alpha_i$, $d\beta_i$ and $d\gamma_i$:

$$\begin{bmatrix} \mathbf{U}_R^T \frac{\partial \mathbf{M}}{\partial \alpha_1} \cdots \mathbf{V}_R^T \frac{\partial \mathbf{C}}{\partial \beta_1} \cdots \mathbf{W}_R^T \frac{\partial \mathbf{K}}{\partial \gamma_1} \cdots \\ \mathbf{U}_I^T \frac{\partial \mathbf{M}}{\partial \alpha_1} \cdots \mathbf{V}_I^T \frac{\partial \mathbf{C}}{\partial \beta_1} \cdots \mathbf{W}_I^T \frac{\partial \mathbf{K}}{\partial \gamma_1} \cdots \end{bmatrix} \begin{Bmatrix} d\alpha_1 \\ \vdots \\ d\alpha_{N_m} \\ d\beta_1 \\ \vdots \\ d\beta_{N_c} \\ d\gamma_1 \\ \vdots \\ d\gamma_{N_k} \end{Bmatrix} = \begin{Bmatrix} \mathbf{Y}_1 \\ \mathbf{Y}_2 \end{Bmatrix} \tag{25}$$

The number of unknowns in this equation is much less than the number of unknowns in Eq. (19), and also all the unknowns in this equation have physical meaning in the real structure.

However, neither Eq. (19) or Eq. (25) can be solved directly since the numbers of unknowns and equations are not equal in most of the cases. There exists a number of techniques for dealing with sets of equations that are under or over-determined or with matrices that are either singular or else poorly conditioned. The singular value decomposition, or SVD method[26], is one of the most

powerful ways to handle these problems. In the present study it was employed to compute solutions to Eq's. (19) and (25) which are highly under-determined for most practical situations. In this case the SVD method provides a least square type of solution to the problem.

In most cases, the selected physical parameters must also be restricted to positive values in order to make sense physically. However, the identification procedure outlined above cannot guarantee that the identified values will all be positive. This is of particular concern when the parameters are proportional to mass, an elastic modulus or a damping coefficient, all of which must be positive for the systems typically considered. Using a constrained optimization method, this problem can be eliminated. The present problem can be posed as one of minimizing

$$f=d\alpha_1+d\alpha_2+\cdots+d\alpha_{N_m}+d\beta_1+..+d\beta_{N_c}+d\gamma_1+..+d\gamma_{N_k} \tag{26}$$

subject to the constraints

$$\begin{bmatrix} \mathbf{U}_R^T\frac{\partial \mathbf{M}}{\partial \alpha_1}\cdots \mathbf{V}_R^T\frac{\partial \mathbf{C}}{\partial \beta_1}\cdots \mathbf{W}_R^T\frac{\partial \mathbf{K}}{\partial \gamma_1}\cdots \\ \mathbf{U}_I^T\frac{\partial \mathbf{M}}{\partial \alpha_1}\cdots \mathbf{V}_I^T\frac{\partial \mathbf{C}}{\partial \beta_1}\cdots \mathbf{W}_I^T\frac{\partial \mathbf{K}}{\partial \gamma_1}\cdots \end{bmatrix} \begin{Bmatrix} d\alpha_1 \\ \cdot \\ \cdot \\ \cdot \\ d\alpha_{N_m} \\ d\beta_1 \\ \cdot \\ \cdot \\ \cdot \\ d\beta_{N_c} \\ d\gamma_1 \\ \cdot \\ \cdot \\ \cdot \\ d\gamma_{N_k} \end{Bmatrix} = \begin{Bmatrix} \mathbf{Y}_1 \\ \mathbf{Y}_2 \end{Bmatrix}$$

and

$$d\alpha_1\geq 0,\ d\alpha_2\geq 0,\ ..d\alpha_{N_m}\geq 0,\ d\beta_1\geq 0,..d\beta_{N_c}\geq 0,\ d\gamma_1\geq 0,\ ..d\gamma_{N_k}\geq 0$$

The feasible solution ($d\alpha_1$, $d\alpha_2$, ..., $d\alpha_{N_m}$, $d\beta_1$, ..., $d\beta_{N_c}$, $d\gamma_1$, ..., $d\gamma_{N_k}$) to this problem yields the identified selected physical parameters.

APPLICATIONS

System Identification Procedures

The method described above was applied to several practical examples. For these cases, the analytical finite element model for the structures was assumed correct and was developed using the NASTRAN finite element analysis package[28]. Then, values for selected physical parameters in the model were identified on the basis of measured experimental data (eigenvalues and eigenvectors) so that the analytical model more accurately represented the real structure. The assumption for this procedure was that the identification process could be applied in an iterative fashion by making successive small modifications to the selected physical parameters until satisfactory agreement with experimental results was obtained. For the i-th iteration, there are the following relationships:

$$M^i = M^{i-1} + dM,\ C^i = C^{i-1} + dC,\ K^i = K^{i-1} + dK$$

$$U^i = U^{i-1} + dU,\ V^i = V^{i-1} + dV,\ W^i = W^{i-1} + dW, \tag{27}$$

Substitute these into equation (25), we can obtain

$$\begin{bmatrix} U_R^T \frac{\partial M^{i-1}}{\partial \alpha_1} \cdots V_R^T \frac{\partial C^{i-1}}{\partial \beta_1} \cdots W_R^T \frac{\partial K^{i-1}}{\partial \gamma_1} \cdots \\ U_I^T \frac{\partial M^{i-1}}{\partial \alpha_1} \cdots V_I^T \frac{\partial C^{i-1}}{\partial \beta_1} \cdots W_I^T \frac{\partial K^{i-1}}{\partial \gamma_1} \cdots \end{bmatrix} \begin{Bmatrix} d\alpha_1^i \\ \cdot \\ \cdot \\ \cdot \\ d\alpha_{N_m}^i \\ d\beta_1^i \\ \cdot \\ \cdot \\ \cdot \\ d\beta_{N_c}^i \\ d\gamma_1^i \\ \cdot \\ \cdot \\ \cdot \\ d\gamma_{N_k}^i \end{Bmatrix} = \begin{Bmatrix} Y_1' \\ Y_2' \end{Bmatrix} \tag{28}$$

where

$$Y_1' = -(dU_R^T M^{i-1} + dV_R^T C^{i-1} + dW_R^T K^{i-1})$$

$$Y_2' = -(dU_I^T M^{i-1} + dV_I^T C^{i-1} + dW_I^T K^{i-1}) \tag{29}$$

The convergence criteria was formulated as follows:

(1) Check the physical parameter differences $d\alpha_1, d\alpha_2, .., d\alpha_{N_m}, d\beta_1, .., d\beta_{N_C}, d\gamma_1, .., d\gamma_{N_k}$ either manually or programmatically. If these physical parameter differences are smaller than a tolerance value, the identified physical parameters are obtained.

(2) Check the differences of the experimental eigenvalues and the i-th iteration analytical results which are obtained after running NASTRAN. If the differences are smaller than a tolerance value, the identified system is obtained.

Simple Numerical Example

In order to verify the proposed approach, the identification procedure developed above was applied first to a very simple finite element model with only a few degrees of freedom. It is a simple variable cross section straight rod with fixed ends, and it contains all the desired parameters

to be identified such as mass, stiffness and damping. It was modeled using 9 rod elements with lumped masses at each node as shown in Fig. 3, and representative values were assumed for all elements and mass properties. For the purpose of defining the damping, the elements were segregated into 4 groups and a different damping coefficient was specified for each group.

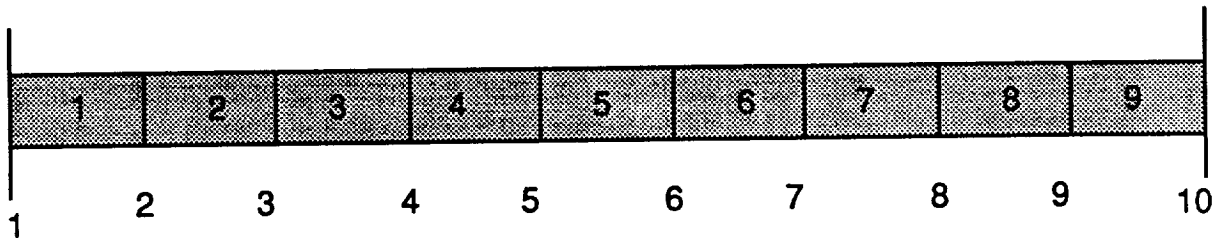

Figure 3. Simple Numerical Example

The assumed physical properties were defined to be typical of an aluminum rod. The length was 228.6 mm (9") and the modulus E =68.9 GPa (10e6 psi). The concentrated masses at each node were those given in Table 1. This model was then employed to generate eigenvalues and eigenvectors which were used to represent "measured" test results. In all the cases presented in this report, the calculations were done in US customary units and the results converted to SI units. As a result, some of the percentage figures may be slightly in error due to numerical roundoff in the conversion of units.

TABLE 1.
ASSUMED PHYSICAL PROPERTIES FOR SIMPLE NUMERICAL EXAMPLE

Index	Mass at Node (kg)	Element Stiffness (MN/m)	Element Damping Coefficient (kN s/m)
1	21.89	367.7	28.34
2	22.76	369.5	28.34
3	23.64	371.3	28.34
4	24.51	373.0	27.58
5	25.39	374.8	27.58
6	26.26	376.5	27.14
7	27.14	378.3	27.14
8	28.01	380.0	26.27
9	28.89	381.8	26.27
10	29.76		

The objective of the identification was to determine the physical parameters such as damping constants (c or ζ) and the cross section area for each rod element. There are three different cases to start to consider with this system. In the first case, the mass and the stiffness matrices were assumed to be accurate, and four damping parameters were identified assuming zero as initial analytical values of the damping matrix. The identified damping parameters are listed in Table 2 .

TABLE 2.
CASE I: IDENTIFYING THE DAMPING PARAMETERS

Damping Parameter	Exact Value	Initial Value	Identified Value	Error (%)
c_1	28.34	0.	28.3420	-0.0029
c_2	28.34	0.	28.3420	-0.0029
c_3	28.34	0.	28.3420	-0.0029
c_4	27.58	0.	27.5805	-0.0022
c_5	27.58	0.	27.5805	-0.0022
c_6	27.14	0.	27.1431	-0.0006
c_7	27.14	0.	27.1431	-0.0006
c_8	26.27	0.	26.2676	-0.0005
c_9	26.27	0.	26.2676	-0.0005

The second case was to identify the stiffness parameters assuming accurate values of mass and damping parameters which were the same for all elements k_i = 376.5 MN/m. The identified stiffness parameters are listed below.

TABLE 3.
CASE II: IDENTIFYING STIFFNESS PARAMETERS

Stiffness Parameter	Exact (MN/m)	Initial (MN/m)	Identified (MN/m)	Error (%)
k_1	367.7	376.5	367.7	0.0000
k_2	369.5	376.5	369.5	-0.0005
k_3	371.3	376.5	371.3	0.0000
k_4	373.0	376.5	373.0	0.0000
k_5	374.8	376.5	374.8	0.0000
k_6	376.5	376.5	376.5	0.0000
k_7	378.3	376.5	378.3	0.0000
k_8	380.0	376.5	380.0	0.0000
k_9	381.8	376.5	381.8	0.0000

In the third case, both the damping and the stiffness parameters were identified under the assumption of accurate mass value alone. The elements of the initial damping matrix were assumed to be zero, and the stiffness parameters were assumed to be the same for all elements (k_i= 376.5 MN/m). The identified damping and stiffness parameters are listed in Tables 4 and 5.

TABLE 4.
CASE III(A): DAMPING PARAMETERS

Damping Parameter	Exact	Initial	Identified	Error (%)
c_1	28.34	0.	28.34	0.0000
c_2	28.34	0.	28.34	0.0000
c_3	28.34	0.	28.34	0.0000
c_4	27.58	0.	27.5812	0.0004
c_5	27.58	0.	27.5812	0.0004
c_6	27.14	0.	27.1437	0.0015
c_7	27.14	0.	27.1437	0.0015
c_8	26.27	0.	26.2679	0.0008
c_9	26.27	0.	26.2679	0.0008

TABLE 5.
CASE III(B): STIFFNESS PARAMETERS

Stiffness Parameter	Exact (MN/m	Initial (MN/m)	Identified (MN/m)	Error (%)
k_1	367.7	376.5	367.700	0.0000
k_2	369.5	376.5	369.492	-0.0019
k_3	371.3	376.5	371.285	0.0094
k_4	373.0	376.5	373.044	0.0112
k_5	374.8	376.5	374.763	0.0028
k_6	376.5	376.5	376.521	0.0047
k_7	378.3	376.5	378.290	0.0093
k_8	380.0	376.5	379.964	-0.0111
k_9	381.8	376.5	381.908	0.0394

All the results were obtained after only one iteration. For these simple cases the method accurately identified the selected physical parameter values (damping and cross section areas).

Application to AH-1G Model

A NASTRAN finite element model (FEM) for the AH-1G helicopter airframe has existed for a long time and was originally developed by Bell Helicopter Textron Inc. It is basically composed of two parts, one is stiffness modeling for idealizing the structures and the other is weight modeling for distributing weights to grid points. There are 4405 different elements with a total of 2764 degrees of freedom in the basic full model. A reduced model, based on Guyan reduction, contains only a total of 63 physical degrees of freedom.

Normally, the input and output data files from NASTRAN dynamic analyses are specially formatted and are quite large for a large finite element model such as the full AH-1G model. For convenience and accuracy, the present system identification programs were designed to automatically read NASTRAN output files and create NASTRAN input data deck files. At each step in the iterative identification procedure, the new modified physical parameters were put into the NASTRAN model bulk data in order to generate the required analytical results, such as eigenvalues, eigenvectors and other parameters, for the next iteration.

The mass, stiffness and damping matrices defined with respect to the internal degrees of freedom are not normal NASTRAN output data. However, such results can be developed by

using appropriate Direct Matrix Abstraction Programming (DMAP) utilities so that the identification program can automatically get this NASTRAN output data (see Appendix B).

Results Using Simulated Test Data

The NASTRAN model of an AH-1G airframe includes 4405 different elements with a total of 2764 degrees of freedom. In order to make sure that the identification procedure was appropriate to a such big model, the use simulation has been chosen to begin with. For this identification, the mass and stiffness properties of the analytical model were considered to be accurate, and nonproportional damping properties were identified. The physical damping parameters were associated with 8 distinctly different types of materials and structural fabrication techniques used in the airframe (e.g., aluminum, steel, riveted, welded, bolted, etc.) and one of these damping values was associated with each of the model elements using Eq. (11).

For this case, the test data were synthesized from the original NASTRAN model assuming small values for the extension and rotation viscous damping coefficients (kN-s/m and N-s/rad units):

TABLE 6. ASSUMED INITIAL PHYSICAL DAMPING VALUES

Extension	Rotation
$C_1 = 5.253$	$C_5 = 93.4$
$C_2 = 8.756$	$C_6 = 155.7$
$C_3 = 1.751$	$C_7 = 31.14$
$C_4 = 1.226$	$C_8 = 21.80$

The synthesized data included 24 modes of which 6 were rigid body modes, and the frequency range was from 0.0 to 30.2 Hz. The dimension of the mass, stiffness and damping matrices was 2764 x 2764. The initial values of the physical damping parameters for the analytical NASTRAN model were taken to be zero, and the results for the identified values are shown below:

TABLE 7. IDENTIFIED PHYSICAL DAMPING PARAMETERS

Parameter	Initial	Identified
C_1	5.253	5.429
C_2	8.756	10.490
C_3	1.751	1.746
C_4	1.226	6.069
C_5	93.4	55.91
C_6	155.7	160.35
C_7	31.14	65.96
C_8	21.80	55.91

The error in the identified damping parameters as a function of the number of matrix elements for each of the 8 damping types is shown in Fig. 4. The error for those element types with more than 100 elements present is quite low, but it is much larger for those types with only a few elements present in the complete finite element model. The largest error was associated with what appeared to be elastomeric materials.

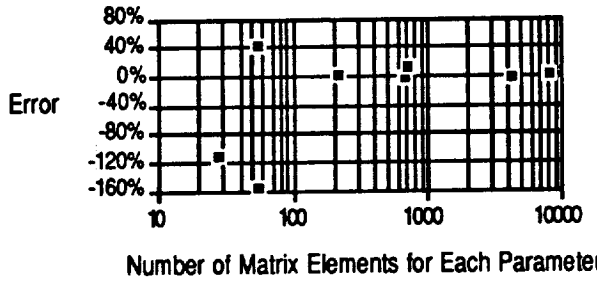

Fig. 4. Error in Damping Estimate as a Function of Number of Matrix Elements in Model

This simulation confirms the identification procedure for a complicated but yet well-defined example. If the assumptions such as nonproportional damping are correct for the airframe and if the experimental data are of high quality, the physical damping parameters can be identified from the test data.

Actual AH-1G Data

Actual test data for an AH-1G airframe were provided by Bell Helicopter Textron Inc. based on ground vibration tests and included both resonance dwell and FRF (frequency response function) data. The experimental data were available for 8 different configurations of the AH-1G that were tested. The principal difference between the tests concerned the degree of complexity of the actual airframe tested. At one extreme, the bare airframe without most attachments was tested while at the other extreme the complete airframe with all attached mechanical components was tested. The test data from the most complex airframe configuration (with all difficult components present) showed the poorest agreement with the corresponding analytical model, while the data from the simplest test airframe showed the best agreement.

For this study, the test data from the most complex airframe configuration was used. Only the FRF data were employed, and the complex eigenvalues and eigenvectors for some 7 triaxial modes were obtained from the FRF data by using the TDAS® curvefitting program[29]. The experimental data were provided as FRF's in TDAS universal file format, and the results generated by TDAS were complex eigenvalues and eigenvectors.

Before use in the identification program, the eigenvectors were normalized. Two options were used to normalize both experimental and analytical eigenvectors. One was to normalize the eigenvectors to the same point, and the other was to normalize based on the minimum deviation between the analytical and experimental eigenvectors.

The full finite element model for AH-1G airframe, as mentioned in the previous section, has a total of 2764 degrees of freedom which is very large for the identification procedure. In order to keep the problem tractable, a Guyan reduction was used in the present application to reduce the analytical model to a total of 63 degrees of freedom, which corresponded to the 23 distinct locations on the airframe at which experimental measurement were made. The error due to the reduction in degrees of freedom from 2764 to 63 is shown in Table 8.

® TDAS (Test Data Analysis) is a part of I-DEAS which is a computer-aided engineering product of Structural Dynamical Research Corporation (SDRC).

TABLE 8.
EIGENVALUES (FREQUENCY) (WITHOUT ANY DAMPING)

Test	Full Model	Error (%)	Reduced Model	Error (%)
7.2475	7.6734	5.877	7.6932	6.150
8.0458	8.3467	3.740	8.4026	4.435
15.9539	14.6722	-8.034	15.825	-0.810
17.2174	17.3701	0.887	17.784	3.294
23.7396	20.7955	-12.392	22.881	-3.606
24.6675	25.7955	4.573	28.238	14.475
32.6848	31.7526	-2.852	33.786	3.369

Initially, both the full and the reduced models were used as analytical models. Using the actual experimental data, the physical parameters in the analytical models were obtained using the iterative procedure outlined earlier. The initial results for both the full model and the reduced model included several negative identified damping parameters which were obtained using the singular value decomposition method when either zero or positive initial guess values were assumed for the analytical model. Physically of course, the damping parameters should be greater than zero, but mathematically, the identification procedure is oblivious to this constraint. The constrained optimization procedure outlined earlier was therefore used in order to overcome this problem. In addition, the reduced model was used in most of the identification cases, expect when otherwise stated, because of the small error and big savings in computational time.

The complete system identification was carried out in two steps. The first step was to identify the stiffness, and for this process the initial damping values were assumed to be zero. The second step was to use the stiffness values obtained from the first step to identify the damping values. This was done under the assumption that the greatest change in natural frequency can be obtained by changing the stiffness parameter, while changes in the damping parameters will only fine-tune the eigenvalues but will obtain accurate modal damping estimates for the structure.

At the first step, four stiffness parameters associated with elastic moduli for four principal materials used in the airframe were selected to be identified. After two iterations, the differences between the identified and the initial moduli and the analytical and experimental eigenvalues were those shown in the following tables:

TABLE 9.
IDENTIFIED MODULUS VALUES

	Initial (GPa)	After first iteration (GPa)	Change from initial value (%)	After second iteration (GPa)	Change from initial value(%)
mat.-1	22.1	21.7	-1.81	3.937	23.03
mat.-2	72.4	72.5	0.19	9.417	-10.41
mat.-3	200.0	190.5	-4.75	28.435	-1.95
mat.-4	120.7	112.2	-7.01	19.396	10.83

TABLE 10.
IDENTIFIED EIGENVALUES (FREQUENCY)

Test	Original	Error (%)	After first iteration	Error (%)	After second iteration	Error (%)
7.247	7.693	6.15	7.686	6.05	7.426	2.47
8.046	8.403	4.43	8.394	4.33	8.064	0.22
15.95	15.82	-0.81	15.795	-0.99	15.302	-4.09
17.22	17.78	3.29	17.762	3.16	17.180	-0.22
23.74	22.88	-3.61	22.899	-3.53	21.819	-8.08
24.67	28.24	14.5	28.195	14.3	27.544	11.6
32.68	33.79	3.37	33.805	3.43	32.481	-0.62

As the second step, the damping parameters were identified for the previously identified stiffness conditions. Initial estimates for the damping parameters were developed by assuming a nominal damping ratio, ζ=5%. For the extensional elements, it was therefore assumed that the initial viscous damping values would be c_E=17.5 for all extensional viscous damping, and that for the rotational elements (assuming the cross section area to be a circle) it would be c_R=222 for all rotational damping.

After one iteration, the results shown in Table 11 were obtained.

TABLE 11.
FINAL RESULTS FOR AH-1G MODEL

Mode	Test		NASTRAN (original)	NASTRAN (final)	
	ω_n (Hz)	ζ (%)	ω_n (Hz)	ω_n (Hz)	ζ (%)
First Lat Bending	7.247	2.19	7.693	7.425	3.00
First Vert Bending	8.046	1.56	8.403	8.057	4.55
Second Lat Bending	15.954	3.05	15.82	15.41	1.70
Second Vert Bending	17.217	1.02	17.78	17.12	7.48
Fuselage Torsion	23.737	1.70	22.88	21.83	0.24
Third Vert Bending	24.667	1.31	28.24	27.702	6.25
Third Lat Bending	32.685	1.95	33.74	32.498	0.97

CONCLUSIONS AND RECOMMENDATIONS

A structural dynamic system identification procedure that is capable of identifying physical parameter changes has been developed. The changes in physical parameters of the system can therefore be related to observed experimental data. In the examples considered, physical parameters, such as the damping constant of a material that will result in a nonproportionally damped system, the modulus of elasticity of a material, and the dynamic stiffness of a beam element have been identified by using the experimentally obtained frequency response functions, modes and eigenvalues.

Following the validation of the developed procedures by using synthesized data on a small model, the method was applied to a large-scale NASTRAN finite element model of a helicopter airframe. Both synthesized data and observed experimentally identified modal data were used. Again, modulus of elasticity, stiffness and damping constants were the parameters considered for the four representative materials used in the airframe. With the exception of one material that had been used to construct a very small number of components, other material constants were identified reasonably accurately where synthesized data were used. When experimental modal data were used, the modal parameters calculated from the identified model did not yield the experimentally observed modes only in cases where the initial *a priori* finite element model output and the experimental model output differed considerably. When experimental output and the *a priori* model output were reasonably close, the results of the identification were satisfactory.

Even though the method was shown to work and the difference between the identified model and the experimental observations were considered satisfactory in some cases, there are some other cases that need improvement to make the procedure applicable to a structural dynamic design process:

(1) While the numerical processes were improved and refined, no similar improvements in the quality of the test data could be realized. One result of this problem was that it was relatively difficult to match measured eigenvalues and eigenvectors with corresponding analytical values. Quite often, the measured and initial eigenvalues matched closely while the eigenvectors differed considerably, and the identified eigenvectors were not significantly closer in agreement. For this reason it is necessary to consider other experimental data, such as the AH-1G dwell data, which have been acquired by other means.

(2) In cases where selected portions of experimental data and *a priori* analytical data differ significantly while a large amount of experimental and analytical data are close together, it is necessary to minimize first the large errors by using H_∞ type of identification before using the least square analysis with singular value decomposition.

(3) It is important that a larger group of identifiable parameters be considered.

(4) It is necessary that we examine the convergence and accuracy of the complete process.

(5) We have used linear sensitivity coefficients. Accuracy and convergence may require nonlinear sensitivity coefficients.

(6) The real damping in a structural dynamic system may not be linear viscous damping with a nonproportional behavior. It is necessary to include other types of damping mechanisms.

(7) As pointed out by Bell's DAMVIBS conclusions[1], nonlinearity is important in considering selected components of the airframe.

(8) We should also examine the experimental parameter estimation processes used to determine modal parameters used as inputs to the identification process.

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ACKNOWLEDGEMENT

The work described in this report was sponsored primarily by the NASA Langley Research Center under contract NAG-1-1007. Additional support was provided by the US Army Research Office under contract DAAG-29-82-K0094 (Center for Excellence in Rotary Wing Aircraft Technology) and by Georgia Tech. The authors gratefully acknowledge the support provided for this work.

APPENDIX A

SYSTEM IDENTIFICATION PROGRAM LISTING

The following pages contain a listing of the current version of the program used to carry out the structural system identification described in this report. The program is written in the CDC version of Fortran 77 and was run on a CDC Cyber 180-990 running under the NOS/VE operating system. The program requires the use of the IMSL Scientific Library (Version 11) in order to carry out the singular value decomposition and the constrained optimization procedures.

The program was used with Version 66C of MSC/NASTRAN which was also run on the same computer system and was used to solve the structural dynamic eigenvalue problems. MSC/NASTRAN was used to run the initial eigenvalue problem and all subsequent iterative solutions. As a result, the program listing also includes the necessary I/O calls needed to operate directly with MSC/NASTRAN input and output data files. The program also requires the experimentally determined eigenvalues and eigenvectors to be present is separate input files for each eigenvalue.

A. Summary of Parameters Used by the Program

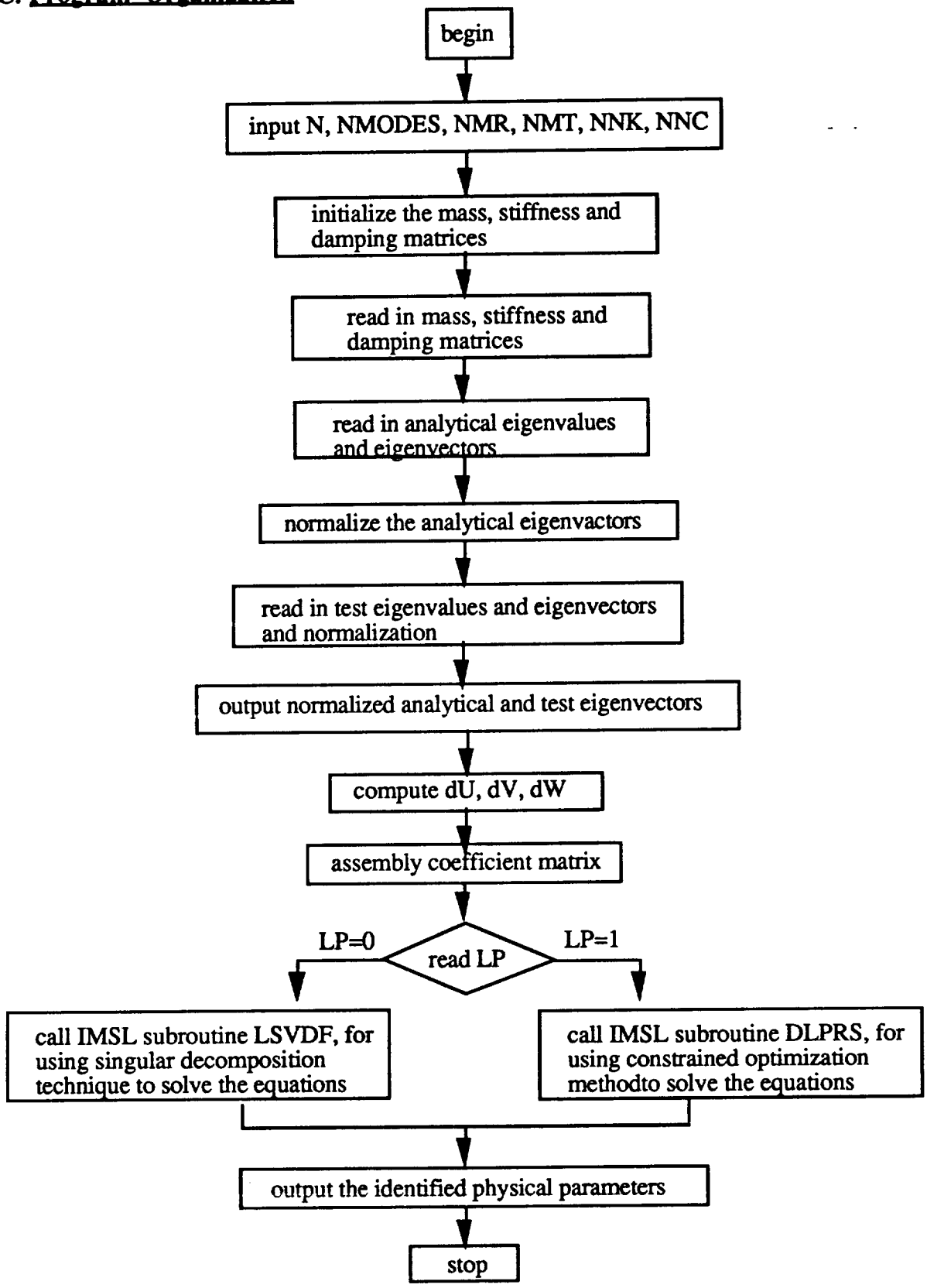
Parameter	Dimension	Definition
LAMBDR, LAMBDI	MD	real and imaginary parts of analytical eigenvalues λ_A
LAMBDTR, LAMBDTI	MD	real and imaginary parts of test eigenvalues λ
WAR, WAI	ND×MD	real and imaginary parts of analytical eigenvectors W_A
WTR, WTI	ND×MD	real and imaginary parts of test eigenvectors W
VTR,VTI	ND×MD	real and imaginary parts of V_A
DUR, DUI	ND×MD	real and imaginary parts of $U-U_A$
DVR, DVI	ND×MD	real and imaginary parts of $V-V_A$
DWR, DWI	ND×MD	real and imaginary parts of $W-W_A$
MASS	NV	mass matrix
STIFF	NV	stiffness matrix
DAMP	NV	damping matrix
DC, D^k	NV	$\mathbf{c}_i$ matrix
DK	NV	$\mathbf{k}_i$ matrix
COEFF	NM×ID	coefficient matrix
Y	NM	vector of the right hand side of the equations
WK	ID2	work vector
BETA	ID	damping parameters
GAMMA	ID	stiffness parameters
MODES	22×2	test eigenvector
NTESTk (k=1,2,5)	20×4	test measurement location definitions
NT	7	numbers of test eigenvectors corresponding to the eigenvectors of NASTRAN model
IRTYPE simple	12	vector indicating the type of constraints exclusive of bounds, where IRTYPE(I)=0,1,2,3 indicates .EQ., .LE., .GE., and range constraints respectively
BL,BU general	12	vectors containing the lower and upper limits of the constraints
A	12×12	matrix containing the coefficients of the constraints
C	12	vector containing the coefficients of the objective function

OBJ		value of the objective function
XLB, XUB	12	vectors containing the lower and upper bounds on the variables
XSOL, DSOL	12	vectors containing the primal and the dual solutions
ND		order of the system, default = 63
N		order of the system, (input)
MD		modes used in the identification, default = 25
NMODES		modes used in the identification, (input)
ID		number of physical parameters, default = 12
NUNK		number of unknowns to be identified (input)
NNK		number of stiffness unknowns
NNC		number of damping unknowns
NMR		number of rigid body motion modes
NMT		number of test modes
LP		choice of solving techniques LP=0, singular value decomposition LP=1, constrained optimization

B. Definition of Input and Output Files

File Name	Definition
TEST1, TEST2, TEST5	files containing 3 different test measurement location definitions
GUYAN_DAMP_F06	NASTRAN output data file including analytical mass, stiffness, damping matrices, eigenvalues and eigenvectors
GUYAN_KCOUT	output file including results
GUYAN_ELECDAT	NASTRAN output data file including the grouped element matrices $\mathbf{c}_i$
GUYAN_ELEKDAT	NASTRAN output data file including the grouped element matrices $\mathbf{k}_i$
TEST_EIGENV1, ..., TEST_EIGENV7	files containing the test eigenvectors
TEST_EIGENVAL	file containing the test eigenvalues

C. Program Organization



```
C
C ---------------------------------------------------------------------
C ---------------------------------------------------------------------
C
C     ------------------------------------------------------------
C     This program is to identify the stiffness or damping parameters
C     by using AHIG NASTRAN finite element models.  The solution can
C     be accomplished using singular value decomposition or constrained
C     optimization.
C
C          Written by Weiyu Zhou, March, 1990.
C     ------------------------------------------------------------
C
C ---------------------------------------------------------------------
C ---------------------------------------------------------------------
C
      PROGRAM DATAPP(INP,OUTP,TAPE5=INP,TAPE6=OUTP)
      PARAMETER (ND=63,MD=25,ID=12,
     *           NV=ND*(ND+1)/2,ID2=2*ID,NM=ND*MD*2)
      REAL  LAMBDR(MD),LAMBDI(MD),LAMBDTR(MD),LAMBDTI(MD),
     *      WTR(ND,MD),WTI(ND,MD),WAR(ND,MD),WAI(ND,MD),
     *      DUR(ND,MD),DUI(ND,MD),DVR(ND,MD),DVI(ND,MD),
     *      DWR(ND,MD),DWI(ND,MD),VTR(ND,MD),VTI(ND,MD),
     *      MASS(NV),STIFF(NV),DAMP(NV),DC(NV),DK(NV),
     *      COEFF(NM,ID),Y(NM),WK(ID2),BETA(ID),GAMMA(ID)
      REAL CC(8),CK(4),DA(6),MODES(22,2)
      INTEGER NTEST1(20,4),NTEST2(20,4),NTEST5(22,4),NT(7),IRTYPE(12)
      REAL BL(12),BU(12),C(12),A(12,12),OBJ
      REAL XLB(12),XUB(12),XSOL(12),DSOL(12)
      DOUBLE PRECISION R,FI,RJ,FIJ,A1,A2
      CHARACTER *132 IDATA
      CHARACTER *66 MATID
      COMPLEX SQU,SQUT,C1,C2,C3,C4
      EQUIVALENCE (DC(1),DK(1))
C
C     ------------------------------------------------------------------
C     OPEN NASTRAN OUTPUT DATA FILE AND OTHER FILES
C     ------------------------------------------------------------------
      OPEN(UNIT=7,FILE='TEST1',STATUS='OLD')
      OPEN(UNIT=8,FILE='TEST2',STATUS='OLD')
      OPEN(UNIT=9,FILE='TEST5',STATUS='OLD')
      OPEN(UNIT=10,FILE='GUYAN_DAMP_F06',FORM='FORMATTED',IOSTAT=IOS)
      OPEN(UNIT=12,FILE='GUYAN_KCOUT',STATUS='UNKNOWN')
      OPEN(UNIT=14,FILE='GUYAN_ELECDAT',STATUS='OLD')
      OPEN(UNIT=15,FILE='GUYAND_ELEKDAT',STATUS='OLD')
      OPEN(UNIT=21,FILE='TEST_EIGENV1',STATUS='OLD')
      OPEN(UNIT=22,FILE='TEST_EIGENV2',STATUS='OLD')
      OPEN(UNIT=23,FILE='TEST_EIGENV3',STATUS='OLD')
      OPEN(UNIT=24,FILE='TEST_EIGENV4',STATUS='OLD')
      OPEN(UNIT=25,FILE='TEST_EIGENV5',STATUS='OLD')
      OPEN(UNIT=26,FILE='TEST_EIGENV6',STATUS='OLD')
      OPEN(UNIT=27,FILE='TEST_EIGENV7',STATUS='OLD')
      OPEN(UNIT=28,FILE='TEST_EIGENVAL',STATUS='OLD')
      IF(IOS.NE.0)WRITE(12,'("  ERROR IN OPENING F06 FILE"/)')
C
      READ(5,*)N
      WRITE(12,'(1X,"ORDER OF THE SYSTEM - ",I4)')N
      READ(5,*)NMODES
      WRITE(12,'(1X,"NO. OF MODES USED IN IDENTIFICATION   ",I4)')NMODES
      READ(5,*)NMR
      WRITE(12,'(1X,"NO. OF MODES OF RIGID BODY MOTION  ",I4)')NMR
      READ(5,*)NMT
      WRITE(12,'(1X,"NO. OF MODES OF TOTAL READ IN   ",I4)')NMT
      READ(5,*)NNK
      READ(5,*)NNC
      NUNK=NNC+NNK
```

```
      WRITE(12,'(1X,"NO. OF UNKNOWNS TO BE IDENTIFIED   ",I4)')NUNK
      READ(5,*)(NT(I),I=1,7)
      WRITE(12,'(1X,"TEST EIGEN NUMBER:"/,7I5)')(NT(I),I=1,7)
      NELEM=N*(N+1)/2
      NCOEFF=NUNK
      NC=NMODES*N
      NC2=NMODES*N*2
C
C-------------------------------------------------
C     READ IN THE MASS, STIFFNESS, AND DAMPING MATRICES
C-------------------------------------------------
C
        DO 1 I=1,NELEM
         MASS(I)=0.0
         DAMP(I)=0.0
         STIFF(I)=0.0
 1      CONTINUE
C
C-------------------------------------------------
C     READ IN THE UPPER TRIANGULAR ELEMENTS
C-------------------------------------------------
C
       READ(5,*)NN
       DO 2 II=1,3
 3     READ(10,'(A)')IDATA
       IF(IDATA(51:62).NE.'INTERMEDIATE')GOTO 3
       IF(IDATA(75:76).EQ.'MA')NU=7
       IF(IDATA(75:76).EQ.'KA')NU=8
       IF(IDATA(75:76).EQ.'BA')NU=9
       IF(NN.NE.0)THEN
        IF(NU.EQ.7)WRITE(12,'("      MASS MATRIX")')
        IF(NU.EQ.8)WRITE(12,'("      STIFFNESS MATRIX")')
        IF(NU.EQ.9)WRITE(12,'("      DAMPING MATRIX")')
       ENDIF
       READ(10,'(A)')IDATA
 4     READ(10,'(I6,E21.6,5E19.6,I9)',ERR=5)I1,(DA(i),I=1,6),I2
       IF(I1.EQ.0)THEN
       READ(10,'(A66,I7)',ERR=5)MATID,I3
       GOTO 4
       ENDIF
       GOTO 7
 5     DO 6 I=1,4
 6     READ(10,'(A)')IDATA
       GOTO 4
 7     DO 8 K=1,6
       IF(DA(K).EQ.0.0)GOTO 8
       IF((I1+K-1).LT.I3)GOTO 8
       IF(NN.NE.0)WRITE(12,'(2I6,E19.6)')I3,I1+K-1,DA(K)
       J1=I3
       J2=I1+K-1
       IF(NU.EQ.7)MASS((J1-1)*N+J2-(J1-1)*J1/2)=DA(K)
       IF(NU.EQ.8)STIFF((J1-1)*N+J2-(J1-1)*J1/2)=DA(K)
       IF(NU.EQ.9)DAMP((J1-1)*N+J2-(J1-1)*J1/2)=DA(K)
 8     CONTINUE
       IF(I2.NE.63.OR.I3.NE.63)GOTO 4
 2     CONTINUE
C
C-------------------------------------------------
C     READ IN ANALYTICAL EIGENVALUES AND EIGENVECTORS
C-------------------------------------------------
C
 10    READ(10,'(A)')IDATA
       IF(IDATA(18:21).NE.'ROOT')GOTO 10
       READ(10,'(A)')IDATA
       J=0
 11    J=J+1
```

```
      READ(10,'(I23,I12,E22.6,E17.6,2E22.6)',ERR=12)
     *      I1,I2,LAMBDR(J),LAMBDI(J),DA(1),DA(2)
      IF(J.LT.NMT)GOTO 11
      GOTO 20
 12   WRITE(12,'("ERROR IN READING EIGENVALUES")')
C
 20   READ(10,'(A)')IDATA
      IF(IDATA(51:62).NE.'INTERMEDIATE')GOTO 20
      DO 21 I=1,4
 21   READ(10,'(A)')IDATA
      J=0
 22   J=J+1
 23   DO 24 K=1,21
      READ(10,'(I6,E21.6,5E19.6,I9)',ERR=26)
     *      I1,(WAR(I1+I-1,J),WAI(I1+I-1,J),I=1,3),I2
 24   CONTINUE
 25   READ(10,'(A)')IDATA
      IF(IDATA(5:6).NE.' 1')GOTO 25
      BACKSPACE 10
      IF(J.LT.NMT)GOTO 22
      GOTO 28
 26   WRITE(12,'("ERROR IN READING EIGENVALUES")')
 28   CONTINUE
      CLOSE(10)
C
C-----------------------------------------------
C     EIGENVECTORS NORMALIZATION
C-----------------------------------------------
C
      DO 100 I=1,NMT
       A1=WAR(16,I)
       A2=WAI(16,I)
       R=DSQRT(A1**2+A2**2)
       FI=DATAN2(A2,A1)
       DO 101 J=1,N
        A1=WAR(J,I)
        A2=WAI(J,I)
        IF(A1.EQ.0.0.AND.A2.EQ.0.0)GOTO 101
        RJ=DSQRT(A1**2+A2**2)
        FIJ=DATAN2(A2,A1)
        RJ=RJ/R
        FIJ=FIJ-FI
        WAR(J,I)=RJ*DCOS(FIJ)
        WAI(J,I)=RJ*DSIN(FIJ)
 101    CONTINUE
 100  CONTINUE
C
C-----------------------------------------------
C     TEST EIGENVALUES AND EIGENVECTORS
C-----------------------------------------------
C
C
C------TEST DATA FIT IN
C
      DO 200 I=1,20
       READ(7,*)(NTEST1(I,J),J=1,4)
 200  CONTINUE
      DO 201 I=1,20
       READ(8,*)(NTEST2(I,J),J=1,4)
 201  CONTINUE
      DO 202 I=1,22
       READ(9,*)(NTEST5(I,J),J=1,4)
 202  CONTINUE
      DO 203 II=1,NMT
       LAMBDTR(II)=LAMBDR(II)
       LAMBDTI(II)=LAMBDI(II)
```

```
      IF(II.EQ.NT(1))THEN
       READ(28,*)LAMBDTR(II),LAMBDTI(II)
       READ(21,*)((MODES(I,J),J=1,2),I=1,22)
       DO 212 KK=1,N
        DO 211 JJ=1,22
         IF(NTEST5(JJ,4).EQ.KK)THEN
          R=SQRT(WAR(KK,II)**2+WAI(KK,II)**2)
          RJ=SQRT(MODES(JJ,1)**2+MODES(JJ,2)**2)
          IF(ABS((R-RJ)/R).GT.0.2)GOTO 251
          WTR(KK,II)=MODES(JJ,1)
          WTI(KK,II)=MODES(JJ,2)
          GOTO 212
         ENDIF
211      CONTINUE
251      WTR(KK,II)=WAR(KK,II)
         WTI(KK,II)=WAI(KK,II)
212     CONTINUE
        GOTO 203
       ENDIF
       IF(II.EQ.NT(2))THEN
        READ(28,*)LAMBDTR(II),LAMBDTI(II)
        READ(22,*)((MODES(I,J),J=1,2),I=1,20)
        DO 214 KK=1,N
         DO 213 JJ=1,20
          IF(NTEST1(JJ,4).EQ.KK)THEN
           R=SQRT(WAR(KK,II)**2+WAI(KK,II)**2)
           RJ=SQRT(MODES(JJ,1)**2+MODES(JJ,2)**2)
           IF(ABS((R-RJ)/R).GT.0.2)GOTO 252
           WTR(KK,II)=MODES(JJ,1)
           WTI(KK,II)=MODES(JJ,2)
           GOTO 214
          ENDIF
213      CONTINUE
252      WTR(KK,II)=WAR(KK,II)
         WTI(KK,II)=WAI(KK,II)
214     CONTINUE
        GOTO 203
       ENDIF
       IF(II.EQ.NT(3))THEN
        READ(28,*)LAMBDTR(II),LAMBDTI(II)
        READ(23,*)((MODES(I,J),J=1,2),I=1,22)
        DO 216 KK=1,N
         DO 215 JJ=1,22
          IF(NTEST5(JJ,4).EQ.KK)THEN
           R=SQRT(WAR(KK,II)**2+WAI(KK,II)**2)
           RJ=SQRT(MODES(JJ,1)**2+MODES(JJ,2)**2)
           IF(ABS((R-RJ)/R).GT.0.2)GOTO 253
           WTR(KK,II)=MODES(JJ,1)
           WTI(KK,II)=MODES(JJ,2)
           GOTO 216
          ENDIF
215      CONTINUE
253      WTR(KK,II)=WAR(KK,II)
         WTI(KK,II)=WAI(KK,II)
216     CONTINUE
        GOTO 203
       ENDIF
       IF(II.EQ.NT(4))THEN
        READ(28,*)LAMBDTR(II),LAMBDTI(II)
        READ(24,*)((MODES(I,J),J=1,2),I=1,20)
        DO 218 KK=1,N
         DO 217 JJ=1,20
          IF(NTEST1(JJ,4).EQ.KK)THEN
           R=SQRT(WAR(KK,II)**2+WAI(KK,II)**2)
           RJ=SQRT(MODES(JJ,1)**2+MODES(JJ,2)**2)
           IF(ABS((R-RJ)/R).GT.0.2)GOTO 254
```

```
            WTR(KK,II)=MODES(JJ,1)
            WTI(KK,II)=MODES(JJ,2)
            GOTO 218
           ENDIF
217       CONTINUE
254       WTR(KK,II)=WAR(KK,II)
          WTI(KK,II)=WAI(KK,II)
218      CONTINUE
         GOTO 203
        ENDIF
        IF(II.EQ.NT(5))THEN
         READ(28,*)LAMBDTR(II),LAMBDTI(II)
         READ(25,*)((MODES(I,J),J=1,2),I=1,22)
         DO 220 KK=1,N
          DO 219 JJ=1,22
           IF(NTEST5(JJ,4).EQ.KK)THEN
            R=SQRT(WAR(KK,II)**2+WAI(KK,II)**2)
            RJ=SQRT(MODES(JJ,1)**2+MODES(JJ,2)**2)
            IF(ABS((R-RJ)/R).GT.0.2)GOTO 255
            WTR(KK,II)=MODES(JJ,1)
            WTI(KK,II)=MODES(JJ,2)
            GOTO 220
           ENDIF
219       CONTINUE
255       WTR(KK,II)=WAR(KK,II)
          WTI(KK,II)=WAI(KK,II)
220      CONTINUE
         GOTO 203
        ENDIF
        IF(II.EQ.NT(6))THEN
         READ(28,*)LAMBDTR(II),LAMBDTI(II)
         READ(26,*)((MODES(I,J),J=1,2),I=1,20)
         DO 222 KK=1,N
          DO 221 JJ=1,20
           IF(NTEST2(JJ,4).EQ.KK)THEN
            R=SQRT(WAR(KK,II)**2+WAI(KK,II)**2)
            RJ=SQRT(MODES(JJ,1)**2+MODES(JJ,2)**2)
            IF(ABS((R-RJ)/R).GT.0.2)GOTO 256
            WTR(KK,II)=MODES(JJ,1)
            WTI(KK,II)=MODES(JJ,2)
            GOTO 222
           ENDIF
221       CONTINUE
256       WTR(KK,II)=WAR(KK,II)
          WTI(KK,II)=WAI(KK,II)
222      CONTINUE
         GOTO 203
        ENDIF
        IF(II.EQ.NT(7))THEN
         READ(28,*)LAMBDTR(II),LAMBDTI(II)
         READ(27,*)((MODES(I,J),J=1,2),I=1,22)
         DO 224 KK=1,N
          DO 223 JJ=1,22
           IF(NTEST5(JJ,4).EQ.KK)THEN
            R=SQRT(WAR(KK,II)**2+WAI(KK,II)**2)
            RJ=SQRT(MODES(JJ,1)**2+MODES(JJ,2)**2)
            IF(ABS((R-RJ)/R).GT.0.2)GOTO 257
            WTR(KK,II)=MODES(JJ,1)
            WTI(KK,II)=MODES(JJ,2)
            GOTO 224
           ENDIF
223       CONTINUE
257       WTR(KK,II)=WAR(KK,II)
          WTI(KK,II)=WAI(KK,II)
224      CONTINUE
         GOTO 203
```

```
        ENDIF
        DO 550 IJ=1,N
         WTR(IJ,II)=WAR(IJ,II)
         WTI(IJ,II)=WAI(IJ,II)
 550    CONTINUE
 203   CONTINUE
C
C------MODES EXTRACTION
C
       IF(NMR.EQ.0)THEN
        DO 300 II=1,NMODES
         LAMBDR(II)=LAMBDR(NT(II))
         LAMBDI(II)=LAMBDI(NT(II))
         LAMBDTR(II)=LAMBDTR(NT(II))
         LAMBDTI(II)=LAMBDTI(NT(II))
         DO 300 JJ=1,N
          WAR(JJ,II)=WAR(JJ,NT(II))
          WAI(JJ,II)=WAI(JJ,NT(II))
          WTR(JJ,II)=WTR(JJ,NT(II))
          WTI(JJ,II)=WTI(JJ,NT(II))
 300    CONTINUE
       ENDIF
       IF(NMR.GT.0)THEN
        IF(NMR.GT.6)THEN
         DO 301 II=1,6
          LAMBDR(II)=LAMBDR(NMR-6+II)
          LAMBDI(II)=LAMBDI(NMR-6+II)
          LAMBDTR(II)=LAMBDTR(NMR-6+II)
          LAMBDTI(II)=LAMBDTI(NMR-6+II)
          DO 301 JJ=1,N
           WAR(JJ,II)=WAR(JJ,NMR-6+II)
           WAI(JJ,II)=WAI(JJ,NMR-6+II)
           WTR(JJ,II)=WTR(JJ,NMR-6+II)
           WTI(JJ,II)=WTI(JJ,NMR-6+II)
 301     CONTINUE
        ENDIF
        DO 302 II=NMR+1,NMODES
         LAMBDR(II)=LAMBDR(NT(II-NMR))
         LAMBDI(II)=LAMBDI(NT(II-NMR))
         LAMBDTR(II)=LAMBDTR(NT(II-NMR))
         LAMBDTI(II)=LAMBDTI(NT(II-NMR))
         DO 302 JJ=1,N
          WAR(JJ,II)=WAR(JJ,NT(II-NMR))
          WAI(JJ,II)=WAI(JJ,NT(II-NMR))
          WTR(JJ,II)=WTR(JJ,NT(II-NMR))
          WTI(JJ,II)=WTI(JJ,NT(II-NMR))
 302    CONTINUE
       ENDIF
C
C-----------------------------------------------
C    OUTPUT THE EIGENVALUES AND EIGENVECTORS
C-----------------------------------------------
C
      WRITE(12,'(/1X,"ANALYTICAL EIGENVALUES  (REAL  IMAGINARY) ",
     *           1X,"TEST EIGENVALUES  (REAL  IMAGINARY) ",/)')
      WRITE(12,'(5X,2E15.7,12X,2E15.7)')
     *      (LAMBDR(I),LAMBDI(I),LAMBDTR(I),LAMBDTI(I),I=1,NMODES)
C
      READ(5,*)NN
      IF(NN.EQ.0)GOTO 410
      WRITE(12,'(/1X,"ANALYTICAL EIGENVECTORS (REAL  IMAGINARY) ",
     *           1X,"TEST EIGENVECTORS (REAL  IMAGINARY) ",/)')
      DO 400 J=1,NMODES
      WRITE(12,'(/1X,"MODE NO. ",I3,/)')J
      WRITE(12,'(5X,2E15.7,12X,2E15.7)')
     *     (WAR(I,J),WAI(I,J),WTR(I,J),WTI(I,J),I=1,N)
```

```
 400  CONTINUE
 410  CONTINUE
C
C-----------------------------------------------
C     COMPUTATION OF V,DU,DV,DW
C-----------------------------------------------
C
      DO 1000 I=1,NMODES
       SQU=CMPLX(LAMBDR(I),LAMBDI(I))*CMPLX(LAMBDR(I),LAMBDI(I))
       SQUT=CMPLX(LAMBDTR(I),LAMBDTI(I))*CMPLX(LAMBDTR(I),LAMBDTI(I))
       DO 1000 J=1,N
       C1=CMPLX(LAMBDR(I),LAMBDI(I))*CMPLX(WAR(J,I),WAI(J,I))
       C2=CMPLX(LAMBDTR(I),LAMBDTI(I))*CMPLX(WTR(J,I),WTI(J,I))
       C3=SQU*CMPLX(WAR(J,I),WAI(J,I))
       C4=SQUT*CMPLX(WTR(J,I),WTI(J,I))
       VTR(J,I)=REAL(C2)
       VTI(J,I)=AIMAG(C2)
       DUR(J,I)=REAL(C4)-REAL(C3)
       DUI(J,I)=AIMAG(C4)-AIMAG(C3)
       DVR(J,I)=VTR(J,I)-REAL(C1)
       DVI(J,I)=VTI(J,I)-AIMAG(C1)
       DWR(J,I)=WTR(J,I)-WAR(J,I)
       DWI(J,I)=WTI(J,I)-WAI(J,I)
 1000 CONTINUE
C
C-----------------------------------------------
C      INITIALIZE
C-----------------------------------------------
C
      DO 1010 I=1,NC2
      Y(I)=0.0
      DO 1010 J=1,NCOEFF
      COEFF(I,J)=0.0
 1010   CONTINUE
C
C-----------------------------------------------
C      RIGHT HAND SIDE Y
C-----------------------------------------------
C-----------------------------------------------
C
      DO 1100 I=1,N
      DO 1110 J=1,NMODES
      DO 1120 KK=1,N
      IK=N*(KK-1)+I-(KK-1)*KK/2
      IF(KK.GT.I) IK=N*(I-1)+KK-(I-1)*I/2
      Y((I-1)*NMODES+J)=Y((I-1)*NMODES+J)-DUR(KK,J)*MASS(IK)
     *              -DVR(KK,J)*DAMP(IK)
     *              -DWR(KK,J)*STIFF(IK)
       Y(NC+(I-1)*NMODES+J)=Y(NC+(I-1)*NMODES+J)-DUI(KK,J)*MASS(IK)
     *              -DVI(KK,J)*DAMP(IK)
     *              -DWI(KK,J)*STIFF(IK)
 1120 CONTINUE
 1110 CONTINUE
 1100 CONTINUE
C
C-----------------------------------------------
C      ASSEMBLY OF COEFFICIENT MATRIX
C-----------------------------------------------
C
      DO 1200 II=1,NNC
       READ(14,*)NUM,BETA(II)
       DO 1210 JJ=1,NELEM
        DC(JJ)=0.0
 1210  CONTINUE
       DO 1220 JJ=1,NUM
        READ(14,*)J,K,DC((J-1)*N+K-(J-1)*J/2)
```

```
 1220  CONTINUE
       DO 1230 I=1,N
        DO 1230 J=1,NMODES
         DO 1240 KK=1,N
          IK=N*(KK-1)+I-(KK-1)*KK/2
          IF(KK.GT.I) IK=N*(I-1)+KK-(I-1)*I/2
          COEFF((I-1)*NMODES+J,II)=COEFF((I-1)*NMODES+J,II)
     *          +VTR(KK,J)*DC(IK)
          COEFF(NC+(I-1)*NMODES+J,II)=COEFF(NC+(I-1)*NMODES+J,II)
     *          +VTI(KK,J)*DC(IK)
 1240     CONTINUE
 1230  CONTINUE
 1200 CONTINUE
       DO 1201 II=1,NNK
       READ(15,*) NUM,GAMMA(II)
       DO 1202 JJ=1,NELEM
        DK(JJ)=0.0
 1202  CONTINUE
       DO 1203 JJ=1,NUM
        READ(15,*) J,K,DK((J-1)*N+K-(J-1)*J/2)
 1203  CONTINUE
       DO 1204 I=1,N
        DO 1204 J=1,NMODES
         DO 1205 KK=1,N
          IK=N*(KK-1)+I-(KK-1)*KK/2
          IF(KK.GT.I) IK=N*(I-1)+KK-(I-1)*I/2
          COEFF((I-1)*NMODES+J,II+NNC)=COEFF((I-1)*NMODES+J,II+NNC)
     *          +WTR(KK,J)*DK(IK)
          COEFF(NC+(I-1)*NMODES+J,II+NNC)=COEFF(NC+(I-1)*NMODES+J,
     *          II+NNC)+WTI(KK,J)*DK(IK)
 1205     CONTINUE
 1204  CONTINUE
 1201 CONTINUE
      DO 1300 I=1,NCOEFF
       BL(I)=0.0
       DO 1310 K=1,NC2
 1310   BL(I)=BL(I)+COEFF(K,I)*Y(K)
 1300 CONTINUE
      DO 1330 I=1,NCOEFF
       DO 1320 J=1,NCOEFF
        A(I,J)=0.0
        DO 1320 K=1,NC2
 1320    A(I,J)=A(I,J)+COEFF(K,I)*COEFF(K,J)
 1330 CONTINUE
C
C-----------------------------------------------------------------
C   CHOICE OF SVD OR LP (LP=0, SINGULAR VALUE DECOMPOSITION
C                        LP=1, CONSTRAINED OPTIMIZATION)
C-----------------------------------------------------------------
C
      READ(5,*) LP
      IF(LP.EQ.1)GOTO  1401
C
C-----------------------------------------------------------------
C     SINGULAR VALUE DECOMPOSITION SOLUTION
C-----------------------------------------------------------------
C
      CALL LSVDF(A,12,NCOEFF,NCOEFF,BL,12,1,BU,WK,IER)
C
C-----------------------------------------------------------------
C                CALL LSVDF(A,IA,M,N,B,IB,NB,S,WK,IER)
C   REMARKS  1.  LSVDF COMPUTES THE SINGULAR VALUE DECOMPOSITION OF
C                A REAL M BY N MATRIX
C                     A = U * Q * V**(T)   WHERE
C                U IS AN M BY M ORTHOGONAL MATRIX,
C                V IS AN N BY N ORTHOGONAL MATRIX, AND
```

```
C                Q IS AN M BY N MATRIX WITH ALL ELEMENTS ZERO EXCEPT
C                     Q(I,I) = S(I)  I=1,...,MIN(M,N).
C                V IS RETURNED IN THE FIRST N ROWS OF A.
C                U IS OBTAINED BY SETTING Y TO THE M BY M IDENTITY
C                MATRIX, ON INPUT, AND SETTING NB=M. ON OUTPUT, B IS
C                REPLACED BY U**(T).
C             2. THE NOTATION U**(T) AND V**(T) REPRESENTS U
C                TRANSPOSE AND V TRANSPOSE, RESPECTIVELY. Q**(+)
C                DENOTES THE GENERALIZED INVERSE OF Q.
C             3. LSVDF IS USEFUL IN ANALYZING AND SOLVING THE LEAST
C                SQUARES PROBLEM A*X.APPR.B (WHERE .APPR. MEANS
C                APPROXIMATELY EQUALS). IN THIS CASE B IS A VECTOR OF
C                LENGTH M AND LSVDF IS CALLED WITH IB=M, NB=1. THE
C                SOLUTION IS X=V*Q**(+)*U**(T)*B. U**(T)*B REPLACES
C                B ON OUTPUT. THE SOLUTION X IS OBTAINED AS FOLLOWS...
C-----------------------------------------------------------------
      IF(IER .EQ. 129) THEN
         WRITE(14,'(2X,"THE CONVERGENCE NOT OBTAINED BY LSVDF")')
         STOP
      ENDIF
C
      IF (IER .EQ. 33 ) THEN
C
         KRANK=-1
         RHO=10E-16
C
         IF(KRANK .LE. 0) THEN
C
            TAU=RHO*BU(1)
            IF(TAU.LE.1.0E-15)TAU=1.0E-12
            DO 2105 I=1,NCOEFF
            IF(BU(I) .LE. TAU) GO TO 2106
 2105       CONTINUE
            GO TO 2107
 2106       KRANK=I-1
 2107       CONTINUE
C
         ELSE
            TAU=0.
         ENDIF
C
         WRITE(12,'(2X,"ABSOLUTE PSEUDORANK TOLERLANCE, TAU=",
     *           E13.6,5X,"PSEUDORANK =",I5)')TAU,KRANK
         WRITE(12,*)
         WRITE(12,'(5(1X,E13.6))')  (BU(I),I=1,KRANK)
         IF(KRANK .LT. NCOEFF) THEN
            WRITE(12,'(5(1X,E13.6))')  (BU(I), I=KRANK+1,NCOEFF)
         ENDIF
C
         IF(KRANK .NE. NC2) THEN
            RES=0.
            DO 2125 I=KRANK+1,NCOEFF
 2125       RES=RES+BL(I)*BL(I)
            RES=SQRT(RES)
            WRITE(12,'(2X,"RESIDUAL VECTOR LENGTH IS",E13.6)')RES
         END IF
C
      ELSE
C
         KRANK=NCOEFF
         WRITE(12,*)
         WRITE(12,'(5(1X,E13.6))')  (BU(I),I=1,KRANK)
      ENDIF
C
      DO 2330 I=1,KRANK
 2330 BL(I)=BL(I)/BU(I)
```

```
C
C-------------------------COMPUTE V*Q**(+)*U**(T)*B
C
      DO 2340 I=1,NNC
       DO 2350 K=1,KRANK
 2350  BETA(I)=BETA(I)+A(I,K)*BL(K)
 2340 CONTINUE
      DO 2360 I=1,NNK
       DO 2370 K=1,KRANK
 2370  GAMMA(I)=GAMMA(I)+A(I+NNC,K)*BL(K)
 2360 CONTINUE
C--------PRINT THE NEW DAMPING MATRIX
      WRITE(12,'(//3X,"IDENTIFIED DAMPING VARIABLES")')
      WRITE(12,'(5(1X,E14.7))') (BETA(J),J=1,NNC)
C--------PRINT THE NEW STIFFNESS MATRIX
      WRITE(12,'(//3X,"IDENTIFIED STIFFNESS VARIABLES")')
      WRITE(12,'(5(1X,E14.7))') (GAMMA(J),J=1,NNK)
      STOP
C
C-------------------------------------------------
C     CONSTRAINED OPTIMIZATION SOLUTION
C-------------------------------------------------
C
 1401 DO 1400 I=1,NCOEFF
       C(I)=1.0
       IRTYPE(I)=3
       READ(5,*)EC
       BL(I)=BL(I)*(1.0-EC)
       BU(I)=BL(I)*(1.+EC)/(1.-EC)
       IF(BU(I).LT.BL(I))THEN
        AC=BL(I)
        BL(I)=BU(I)
        BU(I)=AC
       ENDIF
 1400 CONTINUE
      READ(5,*)WUDAMP,WLDAMP
      READ(5,*)WUSTIFF,WLSTIFF
      DO 1410 I=1,NNC
       XLB(I)=(-1)*WLDAMP*BETA(I)
       XUB(I)=WUDAMP*BETA(I)
 1410 CONTINUE
      DO 1420 I=1,NNK
       XLB(I+NNC)=(-1)*WLSTIFF*GAMMA(I)
       XUB(I+NNC)=WUSTIFF*GAMMA(I)
 1420 CONTINUE
      DO 1430 I=1,NCOEFF
       IF(XUB(I).EQ.0.0)XUB(I)=300.
 1430 CONTINUE
      CALL DLPRS(NCOEFF,NCOEFF,A,12,BL,BU,C,IRTYPE,XLB,XUB,
     *           OBJ,XSOL,DSOL)
C-----------------------------------------------------------------
C      OUTPUT
C-----------------------------------------------------------------
C
       DO 1560 I=1,NCOEFF
        C(I)=0.0
        DO 1560 J=1,NCOEFF
         C(I)=C(I)+A(I,J)*XSOL(J)
 1560  CONTINUE
      DO 1600 I=1,NNC
       BETA(I)=BETA(I)+XSOL(I)
 1600 CONTINUE
      DO 1610 I=1,NNK
       GAMMA(I)=GAMMA(I)+XSOL(I+NNC)
 1610 CONTINUE
C--------PRINT THE NEW DAMPING MATRIX
```

```
      WRITE(12,'(//3X,"IDENTIFIED DAMPING VARIABLES")')
      WRITE(12,'(5(1X,E14.7))') (BETA(J),J=1,NNC)
C--------PRINT THE NEW STIFFNESS MATRIX
      WRITE(12,'(//3X,"IDENTIFIED STIFFNESS VARIABLES")')
      WRITE(12,'(5(1X,E14.7))') (GAMMA(J),J=1,NNK)
      STOP
      END
```

APPENDIX B

MSC/NASTRAN INPUT FOR FINAL AH-1G SYSTEM IDENTIFICATION RUN

The following pages include the listings of the input file for the final MSC/NASTRAN runs used to compute the structural eigenvalues and eigenvectors for the identified AH-1G structural model.

```
ID RVDOMPKA,GROUP65
$IAG 8,31
$OMPILER LIST,REF
$IAG 8,14,31
TIME 240
SOL 26
$----------------
$  The following 8 cards are added by Weiyu Zhou for the output of
$  the mass, stiffness and damping matrices and eigenvectors.
$----------------
ALTER 396
MATPRT KAA// $
ALTER 342
MATPRT MAA// $
ALTER 396
MATPRT BAA// $
ALTER 454
MATPRT UAV// $
$
CEND
TITLE=AH-1G THREE-DIMENSIONAL BUILTUP DYNAMICS MODEL W/ CONTROLS MODELED
SUBTITLE=DIFFICULT COMPONENTS GVT CONFIGURATION #1 (FULL-UP)
LABEL=THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
MAXLINES=500000
$----------------
$  The following card is added by Weiyu Zhou for sorted output
$----------------
ECHO=SORT(EIGC,ASET,ASET1,PARAM,MAT1,PVISC)
MPC=1000
CMETHOD=999
$DYNRED=998
$
$
$
$       ************************************
$       *                                  *
$       *  CASE CONTROL DECK FOR NORMAL    *
$       *  MODE ANALYSIS, SOL 3            *
$       *                                  *
$       ************************************
$
$
$
$
$----------------
$  The following cards are added by Weiyu Zhou for the output of
$  the eigenvectors having all the physical degree of freedoms.
$----------------
SET 1=1001 THRU 1007 EXCEPT 1002,1005,1012,1013,
1017 THRU 1029 EXCEPT 1019,1020,1027,2511,2572,2649,2697,19777
OUTPUT
  DISPLACEMENT(SORT1,REAL)=1
$ SPCFORCE=ALL
$ ESE=ALL
$
$
$
$
$
$
```

```
BEGIN BULK
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                   UPDATE 11/30/84 (R. DOMPKA-RESEARCH)
$       RIGID ELEMENTS ( RBE2 ) INPUT TO REPLACE MPC EQUATIONS WHICH WERE
$       USED AT MODEL INITIATION BECAUSE NO RIGID ELEMENTS EXISTED (1973)
$               NODE 1002--7033,7037,8533,8537        DEPENDENT NODES
$               NODE 15212--14803,14823,15603,15623   DEPENDENT NODES
$               NODE 15218--14807,14827,15607,15627   DEPENDENT NODES
$               NODE 30045--29921,29929,29961,1009    DEPENDENT NODES
$               NODE 1029--123487,125383,125387       DEPENDENT NODES
$
$       BOTH METHODS ARE EQUIVALENT BUT RIGID ELEMENTS AVOID PROBLEMS
$       IN FUTURE USES OF THE MODEL BY ALLOWING MOVEMENT OF ATTACHMENT
$       GRID POINTS WITHOUT RECALCULATION OF MPC EQUATION COEFFICIENTS
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                                GRID POINT DATA
$                                    BEGIN
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
$                                NOSE SUBASSEMBLY
$                                    * * *
$
$                              STA  33.00 BULKHEAD
$                                209-030-580-057
$
GRID      3331    0         33.00     4.90    49.60  0          456
GRID      3339    0         33.00    -4.90    49.60  0          456
GRID      3341    0         33.00     6.95    56.85  0          456
GRID      3349    0         33.00    -6.95    56.85  0          456
$
$                              STA  46.00 BULKHEAD
$                                209-030-582-053
$
GRID      4631    0         46.00    11.46    49.60  0          456
GRID      4633    0         46.00     9.07    46.00  0          456
GRID      1001    0         46.00    -9.07    46.00  0          456
GRID      4639    0         46.00   -11.46    49.60  0          456
GRID      4641    0         46.00    12.34    57.00  0          456
GRID      4649    0         46.00   -12.34    57.00  0          456
GRID      4661    0         46.00     9.70    65.00  0          456
GRID      4669    0         46.00    -9.70    65.00  0          456
$
$                           FORWARD FUSELAGE SUBASSEMBLY
$                                    * * *
$
$                              STA  61.25 BULKHEAD
$                                209-030-101-001
$                                209-030-510-007
$
GRID      6123    0         61.25    10.00    40.91  0          456
GRID      6127    0         61.25   -10.00    40.91  0          456
GRID      6131    0         61.25    13.82    46.00  0          456
GRID      6133    0         61.25    10.00    46.00  0          456
GRID      6137    0         61.25   -10.00    46.00  0          456
GRID      6139    0         61.25   -13.82    46.00  0          456
GRID      6141    0         61.25    14.54    54.16  0          456
GRID      6143    0         61.25    10.00    54.16  0          456
```

```
GRID      6147    0        61.25   -10.00    54.16   0          456
GRID      6149    0        61.25   -14.54    54.16   0          456
GRID      6161    0        61.25    15.06    60.00   0          456
GRID      6163    0        61.25    10.00    60.00   0          456
GRID      6167    0        61.25   -10.00    60.00   0          456
GRID      6169    0        61.25   -15.06    60.00   0          456
GRID      6171    0        53.95    10.00    69.42   0          456
GRID      6179    0        53.95   -10.00    69.42   0          456
$
$                          STA  70.79 PSEUDO-BULKHEAD
$                        FORWARD TURRET ATTACH POINTS
$
GRID      7031    0        70.79    15.04    46.00   0         3456
GRID      7033    0        70.79    10.00    46.00   0          456
GRID      7037    0        70.79   -10.00    46.00   0          456
GRID      7039    0        70.79   -15.04    46.00   0         3456
GRID      7043    0        70.79    10.00    54.38   0         2456
GRID      7047    0        70.79   -10.00    54.38   0         2456
GRID      7061    0        70.79    15.80    60.38   0          456
GRID      7063    0        70.79    10.00    60.38   0          456
GRID      7067    0        70.79   -10.00    60.38   0          456
GRID      7069    0        70.79   -15.80    60.38   0          456
GRID      7071    0        70.79    15.80    61.84    7071     2456
GRID      7079    0        70.79   -15.80    61.84    7079     2456
$
$                          XM-28 ARMAMENT SUBSYSTEM
$                                 717000
$
GRID      1002    0        75.50     0.0     29.00   0          0
$
$                          STA  85.26 PSEUDO-BULKHEAD
$                           AFT TURRET ATTACH POINTS
$
GRID      8531    0        85.26    16.90    46.00   0         3456
GRID      8533    0        85.26    10.00    46.00   0          456
GRID      8537    0        85.26   -10.00    46.00   0          456
GRID      8539    0        85.26   -16.90    46.00   0         3456
GRID      8543    0        85.26    10.00    54.72   0         2456
GRID      8547    0        85.26   -10.00    54.72   0         2456
GRID      8561    0        85.26    16.865   60.96   0          456
GRID      8563    0        85.26    10.00    60.96   0          456
GRID      8567    0        85.26   -10.00    60.96   0          456
GRID      8569    0        85.26   -16.865   60.96   0          456
GRID      8571    0        85.26    16.865   64.64    7071     2456
GRID      8579    0        85.26   -16.865   64.64    7079     2456
$
$                            STA  93.00 BULKHEAD
$                          209-030-102-323
$
GRID      9303    0        93.00    10.00    21.77   0          456
GRID      9307    0        93.00   -10.00    21.77   0          456
GRID      9313    0        93.00    10.00    27.00   0          456
GRID      9317    0        93.00   -10.00    27.00   0          456
GRID      9331    0        93.00    17.89    46.00   0          456
GRID      9333    0        93.00    10.00    46.00   0          456
GRID      1003    0        93.00   -10.00    46.00   0          456
GRID      9339    0        93.00   -17.89    46.00   0          456
GRID      9341    0        95.41    17.99    55.00    9373     1456
GRID      9343    0        95.41    10.00    55.00   0          456
GRID      9347    0        95.41   -10.00    55.00   0          456
```

```
GRID      9349    0        95.41   -17.99    55.00    9373     1456
GRID      9361    0        97.14    17.84    61.44   0          456
GRID      9363    0        97.14    10.00    61.44   0          456
GRID      9367    0        97.14   -10.00    61.44   0          456
GRID      9369    0        97.14   -17.84    61.44   0          456
GRID      9371    0        98.69    17.90    67.23   0          456
GRID      9373    0        98.69    10.00    67.23    9373     1456
GRID      9377    0        98.69   -10.00    67.23    9373     1456
GRID      9379    0        98.69   -17.90    67.23   0          456
$
$                          STA 115.58 PSEUDO-BULKHEAD
$        FORMER-FWD FACE OF INST. PANEL / MAIN BEAM REF PLANE INTERSECT
$
GRID     11503    0       115.58    10.00    27.00   0         3456
GRID     11507    0       115.58   -10.00    27.00   0         3456
GRID     11531    0       115.58    17.91    46.00   0         3456
GRID     11533    0       115.58    10.00    46.00   0          456
GRID     11537    0       115.58   -10.00    46.00   0          456
GRID     11539    0       115.58   -17.91    46.00   0         3456
GRID     11543    0       115.58    10.00    55.00   0          456
GRID     11547    0       115.58   -10.00    55.00   0          456
GRID     11561    0       115.58    17.91    62.172  0          456
GRID     11563    0       115.58    10.00    62.172  0          456
GRID     11567    0       115.58   -10.00    62.172  0          456
GRID     11569    0       115.58   -17.91    62.172  0          456
GRID     11571    0       114.04    17.81    70.19   11571    2456
GRID     11579    0       114.04   -17.91    70.19   11579    2456
$
$                            STA 138.70 BULKHEAD
$                          209-030-103-159
$
GRID     13801    0       138.70    15.81    28.00   0          456
GRID     13803    0       138.70    10.00    27.00   0          456
GRID     13807    0       138.70   -10.00    27.00   0          456
GRID     13809    0       138.70   -15.81    28.00   0          456
GRID     13821    0       138.70    17.68    35.97   0          456
GRID     13823    0       138.70    10.00    35.97   0          456
GRID     13827    0       138.70   -10.00    35.97   0          456
GRID     13829    0       138.70   -17.68    35.97   0          456
GRID     13831    0       138.70    17.94    46.00   0          456
GRID     13833    0       138.70    10.00    46.00   0          456
GRID     1004     0       138.70   -10.00    46.00   0          456
GRID     13839    0       138.70   -17.94    46.00   0          456
GRID     13841    0       138.70    17.99    55.00   0         1456
GRID     13843    0       138.70    10.00    55.00   0          456
GRID     13847    0       138.70   -10.00    55.00   0          456
GRID     13848    0       135.29   -10.00    54.903  0          456
GRID     13849    0       135.29   -17.99    54.903  13849    1456
GRID     13861    0       138.70    18.00    83.09   0          456
GRID     13863    0       138.70    10.00    83.09   0          456
GRID     13867    0       132.25   -10.00    82.84   0          456
GRID     13869    0       132.25   -18.00    82.84   0          456
GRID     13871    0       138.70    18.00    74.95   11571    2456
GRID     13879    0       128.37   -17.96    72.96   11579    2456
$
$                        CENTER FUSELAGE SUBASSEMBLY
$                                 * * *
$
$                            STA 148.50 BULKHEAD
$                          209-030-104-011
```

```
$
GRID     14801    0        148.50    15.81    28.00   0          456
GRID     14803    0        148.50    10.00    27.00   0          456
GRID     14807    0        148.50   -10.00    27.00   0          456
GRID     14809    0        148.50   -15.81    28.00   0          456
GRID     14821    0        148.50    17.67    35.97   0          456
GRID     14823    0        148.50    10.00    35.97   0          456
GRID     14827    0        148.50   -10.00    35.97   0          456
GRID     14829    0        148.50   -17.67    35.97   0          456
GRID     14831    0        148.50    17.94    46.00   0          456
GRID     14833    0        148.50    10.00    46.00   0          456
GRID     14837    0        148.50   -10.00    46.00   0          456
GRID     14839    0        148.50   -17.94    46.00   0          456
GRID     14841    0        148.50    17.99    55.00   0         1456
GRID     14843    0        148.50    10.00    55.00   0          456
GRID     14847    0        148.50   -10.00    55.00   0          456
GRID     14849    0        148.50   -17.99    55.00   0         1456
GRID     14861    0        148.50    17.99    63.49   0          456
GRID     14863    0        148.50    10.00    63.49   0          456
GRID     14867    0        148.50   -10.00    63.49   0          456
GRID     14869    0        148.50   -17.99    63.49   0          456
GRID     14881    0        152.27    18.00    77.57   0          456
GRID     14883    0        152.27    10.00    77.57   0          456
GRID     14887    0        152.27   -10.00    77.57   0          456
GRID     14889    0        152.27   -18.00    77.57   0          456
$
$                    FORWARD SKID GEAR ATTACH POINT / RIGHT SIDE
$
GRID     15212    0        152.45    13.50    30.34   0        0
$
$                    FORWARD SKID GEAR ATTACH POINT / LEFT SIDE
$
GRID     15218    0        152.45   -13.50    30.34   0        0
$
$                              STA 156.41 BULKHEAD
$                             209-030-105-001
$
GRID     15601    0        156.41    16.39    29.00   0          456
GRID     15603    0        156.41    10.00    27.00   0          456
GRID     15607    0        156.41   -10.00    27.00   0          456
GRID     15609    0        156.41   -16.39    29.00   0          456
GRID     15621    0        156.41    17.64    35.97   0          456
GRID     15623    0        156.41    11.582   35.97   0          456
GRID     15625    0        156.41     0.0     35.97   0          456
GRID     15627    0        156.41   -11.582   35.97   0          456
GRID     15629    0        156.41   -17.64    35.97   0          456
GRID     15633    0        156.41    11.582   46.00   15633     2456
GRID     15637    0        156.41   -11.582   46.00   15637     2456
$
$                              STA 164.00 BULKHEAD
$                             209-030-106-027
$
GRID     16481    0        164.00    17.64    77.57   0          456
GRID     16483    0        164.00    12.375   77.57   0         3456
GRID     16485    0        164.00     0.0     77.57   0         3456
GRID     16487    0        164.00   -12.375   77.57   0         3456
GRID     1005     0        164.00   -17.64    77.57   0          456
$
$                              STA 186.25 BULKHEAD
$                             209-030-107-009
```

```
$                          FORWARD WING CARRY-THRU SPAR
$                                 209-030-140
$
GRID     18601    0        186.25    15.61    29.00   0          456
GRID     18603    0        186.25     9.31    27.00   0          456
GRID     18607    0        186.25    -9.31    27.00   0          456
GRID     18609    0        186.25   -15.61    29.00   0          456
GRID     18621    0        186.25    17.55    35.97   0          456
GRID     18623    0        186.25    10.00    35.97   0          456
GRID     18625    0        186.25     0.0     35.97   0          456
GRID     18627    0        186.25   -10.00    35.97   0          456
GRID     18629    0        186.25   -17.55    35.97   0          456
GRID     18631    0        186.25    17.55    46.00   0          456
GRID     18633    0        186.25    10.00    46.00   0         1456
GRID     18635    0        186.25     0.00    46.00   0         1456
GRID     18637    0        186.25   -10.00    46.00   0         1456
GRID     18639    0        186.25   -17.55    46.00   0          456
GRID     18641    0        186.25    17.850   56.20   0        0
GRID     18642    0        186.25    16.850   56.20   0        0
GRID     18643    0        186.25    12.375   56.20   0            4
GRID     18644    0        186.25     5.790   56.20   0           45
GRID     18645    0        186.25     0.0     56.20   0           45
GRID     18646    0        186.25    -5.790   56.20   0           45
GRID     18647    0        186.25   -12.375   56.20   0            4
GRID     18648    0        186.25   -15.850   56.20   0        0
GRID     18649    0        186.25   -17.850   56.20   0        0
GRID     18651    0        186.25    17.850   58.38   0        0
GRID     18652    0        186.25    15.850   58.39   0        0
GRID     18653    0        186.25   -15.850   58.39   0        0
GRID     18654    0        186.25   -17.850   58.39   0        0
GRID     18656    0        186.25    17.850   63.12   0        0
GRID     18657    0        186.25    15.850   63.12   0        0
GRID     18658    0        186.25   -15.850   63.12   0        0
GRID     18659    0        186.25   -17.850   63.12   0        0
GRID     18661    0        186.25    17.850   65.60   0        0
GRID     18662    0        186.25    15.850   65.60   0        0
GRID     18663    0        186.25    12.375   65.60   0        0
GRID     18664    0        186.25     5.790   65.60   0           45
GRID     18665    0        186.25     0.0     65.60   0           45
GRID     18666    0        186.25    -5.790   65.60   0           45
GRID     18667    0        186.25   -12.375   65.60   0        0
GRID     18668    0        186.25   -15.850   65.60   0        0
GRID     18669    0        186.25   -17.850   65.60   0        0
GRID     18673    0        186.25     9.00    67.07   0        0
GRID     18677    0        186.25    -9.00    67.07   0        0
GRID     18681    0        186.25    17.65    77.57   0          456
GRID     18683    0        186.25    12.375   77.57   0        0
GRID     18685    0        186.25     0.0     77.57   0          456
GRID     18687    0        186.25   -12.375   77.57   0        0
GRID     18689    0        186.25   -17.65    77.57   0          456
$
$                          STA 189.94 PSEUDO-BULKHEAD
$                  CENTERLINE OF FWD MAIN ROTOR PYLON MOUNTS
$
GRID     18983    0        189.94    12.375   77.57   0            4
GRID     18987    0        189.94   -12.375   77.57   0            4
$
$                          STA 191.24 PSEUDO-BULKHEAD
$                CENTERLINE OF CYCLIC CONTROL BOOST CYLINDER PIVOT POINTS
$
```

```
GRID     19173    0        191.24     9.00    66.77   0        0
GRID     19177    0        191.24    -9.00    66.77   0        0
$
$                          CENTER WING CARRY-THRU SPAR
$                              209-030-141
$
GRID     19741    0        196.90    17.730   55.380   0        0
GRID     19742    0        196.90    10.090   54.75    0        0
GRID     19743    0        196.90     7.920   54.75    0                 4
GRID     19745    0        196.90     0.0     54.75    0                45
GRID     19747    0        196.90    -7.920   54.75    0                 4
GRID     19748    0        196.90   -10.090   54.75    0        0
GRID     19749    0        196.90   -17.730   55.390   0        0
GRID     19751    0        196.90    17.730   62.160   0        0
GRID     19752    0        196.90    10.090   62.16    0        0
GRID     19758    0        196.90   -10.090   62.16    0        0
GRID     19759    0        196.90   -17.730   62.160   0        0
GRID     19761    0        196.90    17.730   64.63    0        0
GRID     19762    0        196.90    10.090   64.63    0        0
GRID     19763    0        196.90     7.920   64.63    0                 4
GRID     19765    0        196.90     0.0     64.63    0                45
GRID     1006     0        196.90    -7.920   64.63    0                 4
GRID     19768    0        196.90   -10.090   64.63    0        0
GRID     19769    0        196.90   -17.730   64.63    0        0
GRID     19773    0        196.90     9.00    66.43    0        0
GRID     19777    0        196.90    -9.00    66.43    0        0
$
$                          STA 209.90 PSEUDO-BULKHEAD
$          CENTERLINE OF COLLECTIVE CONTROL BOOST CYLINDER PIVOT POINT
$
GRID     20977    0        209.90    -9.00    65.65    0        0
$
$                          STA 211.72 PSEUDO-BULKHEAD
$                    CENTERLINE OF AFT MAIN ROTOR PYLON MOUNTS
$
GRID     21183    0        211.72    12.375   77.57    0                 4
GRID     21187    0        211.72   -12.375   77.57    0                 4
$
$                          AFT FUSELAGE SUBASSEMBLY
$                                * * *
$
$                          STA 213.94 BULKHEAD
$                              209-030-108-007
$                          AFT WING CARRY-THRU SPAR
$                              209-030-142
$
GRID     21321    0        213.94    16.86    35.97    0                456
GRID     21323    0        213.94    10.00    35.97    0                456
GRID     21325    0        213.94     0.0     35.97    0                456
GRID     21327    0        213.94   -10.00    35.97    0                456
GRID     21329    0        213.94   -16.86    35.97    0                456
GRID     21341    0        213.94    17.590   54.78    0        0
GRID     21343    0        213.94    12.000   54.78    0                 4
GRID     21345    0        213.94     0.000   54.78    0                 4
GRID     21347    0        213.94   -12.000   54.78    0                 4
GRID     21349    0        213.94   -17.590   54.78    0        0
GRID     21361    0        213.94    17.73    65.00    0                456
GRID     21363    0        213.94    12.375   65.00    0                 6
GRID     21364    0        213.94     5.55    65.00    0                456
GRID     21366    0        213.94    -5.55    65.00    0                456
```

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GRID     21367    0        213.94   -12.375   65.00    0                 6
GRID     21369    0        213.94   -17.73    65.00    0                456
GRID     21377    0        213.94    -9.00    65.41    0        0
GRID     21383    0        213.94    12.375   77.57    0        0
GRID     21387    0        213.94   -12.375   77.57    0        0
$
$                    CENTERLINE OF AFT PYLON MOUNT CROSS BEAM
$                              209-031-344-001
$
GRID     21485    0        214.50     0.0     77.57    0               156
$
$                          STA 218.97 BULKHEAD
$                              209-030-109-005
$
GRID     21801    0        218.97    13.98    29.00    0                456
GRID     21803    0        218.97     8.62    27.00    0                456
GRID     21807    0        218.97    -8.62    27.00    0                456
GRID     21809    0        218.97   -13.98    29.00    0                456
GRID     21821    0        218.97    16.72    35.97    0                456
GRID     21823    0        218.97    10.00    35.97    0                456
GRID     21825    0        218.97     0.0     35.97    0                456
GRID     21827    0        218.97   -10.00    35.97    0                456
GRID     21829    0        218.97   -16.72    35.97    0                456
$
$                    AFT SKID GEAR ATTACH POINT / RIGHT SIDE
$
GRID     22312    0        223.29    13.50    31.00    0                456
$
$                    AFT SKID GEAR ATTACH POINT / LEFT SIDE
$
GRID     22318    0        223.29   -13.50    31.00    0                456
$
$                          STA 227.62 BULKHEAD
$                              209-030-110-005
$
GRID     22701    0        227.62    13.42    29.00    0                456
GRID     22703    0        227.62     7.86    27.00    0                456
GRID     22707    0        227.62    -7.86    27.00    0                456
GRID     22709    0        227.62   -13.42    29.00    0                456
GRID     22721    0        227.62    16.43    35.97    0                456
GRID     22723    0        227.62    10.00    35.97    0                456
GRID     22725    0        227.62     0.0     35.97    0                456
GRID     22727    0        227.62   -10.00    35.97    0                456
GRID     22729    0        227.62   -16.43    35.97    0                456
$
$                          STA 250.00 BULKHEAD
$                              209-030-111-107
$
GRID     25001    0        250.00    11.63    29.00    0                456
GRID     25003    0        250.00     7.83    27.00    0                456
GRID     25007    0        250.00    -5.18    27.00    0                456
GRID     25009    0        250.00   -11.63    29.00    0                456
GRID     25021    0        250.00    15.52    35.97    0                456
GRID     25025    0        250.00     0.0     35.97    0                456
GRID     25029    0        250.00   -15.52    35.97    0                456
GRID     25041    0        250.00    16.20    52.59    0                456
GRID     25045    0        250.00     0.00    52.59    0               1456
GRID     25049    0        250.00   -16.20    52.59    0                456
GRID     25061    0        250.00    16.20    54.07    0                456
GRID     1007     0        250.00     0.00    54.07    0                456
```

```
GRID    25069   0       250.00  -16.20  64.07   0               456
$
$                               STA 268.25 BULKHEAD
$                                 209-030-112-013
$
GRID    26801   0       268.25  7.80    28.06   0               456
GRID    26809   0       268.25  -5.21   28.06   0               456
GRID    26821   0       268.25  14.56   35.97   0               456
GRID    26825   0       268.25  0.0     35.97   0               456
GRID    26829   0       268.25  -14.56  35.97   0               456
GRID    26841   0       268.25  14.69   51.49   0               456
GRID    26845   0       268.25  0.00    51.49   0               1456
GRID    26849   0       268.25  -14.69  51.49   0               456
GRID    26861   0       268.25  14.79   63.59   0               456
GRID    26865   0       268.25  0.00    63.59   0               456
GRID    1008    0       268.25  -14.79  63.59   0               456
$
$                            TAILBOOM JUNCTION BULKHEAD
$                                 209-030-113-001
$
GRID    29905   0       300.63  0.0     31.67   0               456
GRID    29921   0       300.37  11.92   35.97   0               456
GRID    29925   0       300.37  0.0     35.97   0               456
GRID    29929   0       300.37  -11.92  35.97   0               456
GRID    29941   0       299.53  14.29   49.38   0               456
GRID    29945   0       299.53  0.0     49.38   29945           1456
GRID    29949   0       299.53  -14.29  49.38   0               456
GRID    29961   0       298.70  12.29   62.80   0               456
GRID    29965   0       298.70  0.0     62.80   0               456
GRID    1009    0       298.70  -12.29  62.80   0               456
$
$                                 BS  41.32 BULKHEAD
$
$ OLD ELEVATOR CONNECTION POINT KEPT FROM ELASTIC LINE FEM
$
$                                 BS 143.28 BULKHEAD
$
GRID    1011    0       401.333 0.0     55.910  0               0
$
$ OLD T/R MAST CONNECTION POINT KEPT FROM ELASTIC LINE FEM
$
$                                 FS 0.00 BULKHEAD
$
GRID    52045   0       520.67  0.0     118.27  0               0
$
$                                     ELEVATOR
$                                   209-020-800
$
GRID    1012    0       401.33  31.25   55.910  0               0
GRID    40142   0       401.33  20.87   55.910  0               0
GRID    40143   0       401.33  9.68    55.910  0               0
GRID    40147   0       401.33  -9.68   55.910  0               0
GRID    40148   0       401.33  -20.87  55.910  0               0
GRID    1013    0       401.33  -31.25  55.910  0               0
$
$                                 WING / RIGHT SIDE
$                                   209-020-001
$
$
$                                   WS  19.19 RIB
```

```
$
GRID    61912   0       186.25  19.19   65.60   0               0
GRID    61913   0       186.25  19.19   64.31   0               0
GRID    61914   0       186.25  19.19   63.12   0               0
GRID    61916   0       186.25  19.19   58.39   0               0
GRID    61917   0       186.25  19.19   57.39   0               0
GRID    61918   0       186.25  19.19   56.20   0               0
GRID    61922   0       196.90  19.19   63.04   0               0
GRID    61923   0       196.90  19.19   62.16   0               0
GRID    61924   0       196.90  19.19   61.35   0               0
GRID    61926   0       196.90  19.19   56.07   0               0
GRID    61927   0       196.90  19.19   55.39   0               0
GRID    61928   0       196.90  19.19   54.37   0               0
GRID    61934   0       213.94  19.19   55.42   0               0
GRID    61935   0       213.94  19.19   54.78   0               0
GRID    61936   0       213.94  19.19   54.08   0               0
$
$                                   WS  22.19 RIB
$
GRID    62211   0       186.93  22.19   66.05   0               456
GRID    62213   0       186.93  22.19   64.31   0               0
GRID    62217   0       186.93  22.19   57.39   0               0
GRID    62219   0       186.93  22.19   56.00   0               456
GRID    62221   0       197.44  22.19   63.95   0               0
GRID    62224   0       197.44  22.19   61.35   0               0
GRID    62226   0       197.44  22.19   56.07   0               0
GRID    62229   0       197.44  22.19   54.10   0               0
GRID    62231   0       213.94  22.19   56.35   0               0
GRID    62239.  0       213.94  22.19   54.08   0               0
$
$                                   WS  28.00 RIB
$
GRID    62811   0       188.25  28.00   66.05   0               456
GRID    62819   0       188.25  28.00   56.73   0               456
GRID    62821   0       198.48  28.00   63.95   0               456
GRID    62829   0       198.48  28.00   54.79   0               456
GRID    62831   0       213.94  28.00   56.91   0               456
GRID    62839   0       213.94  28.00   54.71   0               456
$
$                                   WS  34.00 RIB
$
GRID    63411   0       189.62  34.00   66.05   0               456
GRID    63419   0       189.62  34.00   57.49   0               456
GRID    63421   0       199.56  34.00   63.95   0               456
GRID    63429   0       199.56  34.00   55.50   0               456
GRID    63431   0       213.94  34.00   57.49   0               456
GRID    63439   0       213.94  34.00   55.36   0               456
$
$                                   WS  42.50 RIB
$
GRID    64211   0       191.55  42.50   66.05   0               456
GRID    64219   0       191.55  42.50   58.56   0               456
GRID    64221   0       201.08  42.50   63.95   0               456
GRID    64229   0       201.08  42.50   56.50   0               0
GRID    64231   0       213.94  42.50   58.31   0               456
GRID    64239   0       213.94  42.50   56.28   0               456
$
$                                   WS  50.75 RIB
$
GRID    65011   0       193.42  50.75   66.05   0               456
```

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GRID     65019    0        193.42    50.75    59.60    0              456
GRID     65021    0        202.56    50.75    63.95    0              456
GRID     65029    0        202.56    50.75    57.48    0              456
GRID     65031    0        213.94    50.75    59.11    0              456
GRID     65039    0        213.94    50.75    57.17    0              456
$
$                                    WS  59.00 RIB
$
GRID     65911    0        195.30    59.00    66.05    0              456
GRID     65919    0        195.30    59.00    60.64    0              456
GRID     1017     0        204.04    59.00    63.95    0              456
GRID     65929    0        204.04    59.00    58.45    0         0
GRID     65931    0        213.94    59.00    59.91    0              456
GRID     65939    0        213.94    59.00    58.06    0              456
$
$                                  WING / LEFT SIDE
$                                    209-020-001
$
$
$                                    WS -19.19 RIB
$
GRID     71912    0        186.25   -19.19    65.60    0         0
GRID     71913    0        186.25   -19.19    64.31    0         0
GRID     71914    0        186.25   -19.19    63.12    0         0
GRID     71916    0        186.25   -19.19    58.39    0         0
GRID     71917    0        186.25   -19.19    57.39    0         0
GRID     71918    0        186.25   -19.19    56.20    0         0
GRID     71922    0        186.90   -19.19    63.04    0         0
GRID     71923    0        186.90   -19.19    62.16    0         0
GRID     71924    0        186.80   -19.19    61.35    0         0
GRID     71926    0        186.80   -19.19    56.07    0         0
GRID     71927    0        196.90   -19.19    55.39    0         0
GRID     71928    0        196.90   -19.19    54.37    0         0
GRID     71934    0        213.94   -19.19    55.42    0         0
GRID     71935    0        213.84   -19.19    54.78    0         0
GRID     71936    0        213.84   -19.19    54.08    0         0
$
$                                    WS -22.19 RIB
$
GRID     72211    0        186.93   -22.19    66.05    0              456
GRID     72213    0        186.93   -22.19    64.31    0         0
GRID     72217    0        186.93   -22.19    57.39    0         0
GRID     72219    0        186.93   -22.19    56.00    0              456
GRID     72221    0        197.44   -22.19    63.95    0         0
GRID     72224    0        197.44   -22.19    61.35    0         0
GRID     72226    0        197.44   -22.19    56.07    0         0
GRID     72229    0        197.44   -22.19    54.10    0         0
GRID     72231    0        213.94   -22.19    56.35    0         0
GRID     72239    0        213.94   -22.19    54.08    0         0
$
$                                    WS -28.00 RIB
$
GRID     72811    0        188.25   -28.00    66.05    0              456
GRID     72819    0        188.25   -28.00    56.73    0              456
GRID     72821    0        198.48   -28.00    63.85    0              456
GRID     72829    0        198.48   -28.00    54.79    0              456
GRID     72831    0        213.94   -28.00    56.91    0              456
GRID     72839    0        213.94   -28.00    54.71    0              456
$
$                                    WS -34.00 RIB
```

```
$
GRID     73411    0        189.62   -34.00    66.05    0              456
GRID     73419    0        189.62   -34.00    57.49    0              456
GRID     73421    0        199.56   -34.00    63.95    0              456
GRID     73429    0        199.56   -34.00    55.50    0              456
GRID     73431    0        213.94   -34.00    57.49    0              456
GRID     73439    0        213.94   -34.00    55.36    0              456
$
$                                    WS -42.50 RIB
$
GRID     74211    0        191.55   -42.50    66.05    0              456
GRID     74219    0        191.55   -42.50    58.56    0              456
GRID     74221    0        201.08   -42.50    63.95    0              456
GRID     74229    0        201.08   -42.50    56.50    0         0
GRID     74231    0        213.94   -42.50    58.31    0              456
GRID     74239    0        213.94   -42.50    56.28    0              456
$
$                                    WS -50.75 RIB
$
GRID     75011    0        193.42   -50.75    66.05    0              456
GRID     75019    0        193.42   -50.75    59.60    0              456
GRID     75021    0        202.56   -50.75    63.95    0              456
GRID     75029    0        202.56   -50.75    57.48    0              456
GRID     75031    0        213.94   -50.75    59.11    0              456
GRID     75039    0        213.94   -50.75    57.17    0              456
$
$                                    WS -59.00 RIB
$
GRID     75911    0        195.30   -59.00    66.05    0              456
GRID     75919    0        195.30   -59.00    60.64    0              456
GRID     1018     0        204.04   -59.00    63.95    0              456
GRID     75929    0        204.04   -59.00    58.45    0         0
GRID     75931    0        213.94   -59.00    59.91    0              456
GRID     75939    0        213.94   -59.00    58.06    0              456
$
$                                  MAIN ROTOR MAST
$                                    209-010-450
$                              MAIN ROTOR TRANSMISSION
$                                    204-040-009
$
GRID     200070   0        200.00     0.0     70.00    0         0
GRID     200078   0        200.00     0.0     77.57    0         0
GRID     200079   0        200.00     0.0     79.05    0         0
GRID     1021     0        200.00     0.0     86.25    0         0
GRID     200087   0        200.00     0.0     86.25    0         0
GRID     200095   0        200.00     0.0     95.00    0         0
GRID     200086   0        200.00     0.0     95.00    0         0
GRID     200101   0        200.00     0.0    100.675   0         0
GRID     200106   0        200.00     0.0    105.70    406       0
GRID     200112   0        200.00     0.0    111.50    0         0
GRID     200114   0        200.00     0.0    114.00    0         0
GRID     200121   0        200.00     0.0    121.00    0         0
GRID     200129   0        200.00     0.0    129.00    0         0
GRID     200137   0        200.00     0.0    137.00    0         0
GRID     200145   0        200.00     0.0    145.00    0         0
GRID     200153   0        200.00     0.0    152.76    0         0
GRID     1022     0        200.00     0.0    154.97    0         0
GRID     200162   0        200.00     0.0    162.00    0         0
$
$                MAIN ROTOR TRANSMISSION CASE SUPPORT ASSEMBLY
```

```
$                                   204-040-354-009
$
GRID    189073  0       189.94  12.375  77.57   0       0
GRID    189077  0       189.94  -12.375 77.57   0       0
GRID    211073  0       211.72  12.375  77.57   0       0
GRID    211077  0       211.72  -12.375 77.57   0       0
GRID    214075  0       214.50  0.0     77.57   0       0
$
$                      MAIN ROTOR CYCLIC CONTROL LEVER
$                               209-010-402
$
GRID    192111  0       192.05  7.96    111.50  0       0
GRID    193111  0       192.05  -7.96   111.50  0       0
GRID    200111  0       200.00  0.0     111.50  0       0
$
$                    MAIN ROTOR COLLECTIVE CONTROL LEVER
$                               209-010-406
$
GRID    194106  0       194.29  2.78    106.26  0       0
GRID    200105  0       200.00  0.0     105.70  406     0
GRID    211104  0       211.64  -5.68   104.57  0       0
$
$                              TAIL ROTOR MAST
$                               204-040-402
$                            TAIL ROTOR GEARBOX
$                               204-040-012
$
GRID    520018  0       520.67  1.80    118.27  0       0
GRID    520024  0       520.67  2.42    118.27  0       0
GRID    520057  0       520.67  5.69    118.27  0       0
GRID    520065  0       520.67  6.45    118.27  0       0
GRID    520068  0       520.67  6.82    118.27  0       0
GRID    1027    0       520.67  7.90    118.27  0       0
GRID    520135  0       520.67  13.47   118.27  0       0
GRID    520139  0       520.67  13.88   118.27  0       0
GRID    520152  0       520.67  15.19   118.27  0       0
GRID    1028    0       520.67  18.49   118.27  0       0
$
$                             SKID LANDING GEAR
$                               209-050-002
$
GRID    1024    0       110.20  40.00   7.35    0       0
GRID    214902  0       149.63  40.00   7.35    0       0
GRID    222002  0       220.37  40.00   7.35    0       0
GRID    1026    0       234.92  40.00   7.35    0       0
GRID    215102  0       151.85  29.00   26.00   0       0
GRID    215202  0       152.45  13.50   30.34   0       0
GRID    222202  0       222.67  29 00   26.00   0       0
GRID    222302  0       223.29  13.50   31.00   0       0
GRID    1023    0       110.20  -40.00  7.35    0       0
GRID    214901  0       149.63  -40 00  7.35    0       0
GRID    222001  0       220.37  -40 00  7.35    0       0
GRID    1025    0       234.92  -40.00  7.35    0       0
GRID    215101  0       151.85  -29.00  26.00   0       0
GRID    215201  0       152.45  -13.50  30.34   0       0
GRID    222201  0       222.67  -29.00  26.00   0       0
GRID    222301  0       223.29  -13.50  31.00   0       0
$
$                              ENGINE MOUNTS
$                          209-060-106/107/108/109
```

```
$
GRID    123487  0       234.069 -9.49   81.750  0           456
GRID    125383  0       253.326 11.731  80.438  0           456
GRID    125387  0       253.326 -11.731 80.438  0           456
GRID    123467  0       234.420 -12 931 65.309  0           456
GRID    126867  0       267.474 -9.989  64.451  0           456
GRID    125067  0       250.163 -13.008 64.901  0           456
GRID    125065  0       250.168 -1.937  64.901  0           456
GRID    125063  0       250.163 13.008  64.901  0           456
GRID    126863  0       267.474 9.989   64.451  0           456
$
$                                  ENGINE
$                               209-060-005
$
GRID    1019    0       224.10  0.0     86.00   0       0
GRID    1029    0       248.00  0.0     86.00   0       0
GRID    1020    0       272.80  0.0     86.00   0       0
$
$                                 GUNNER CG
$
GRID    08300   0       83.00   0.0     70.00   0           456
$
$                   INSTRUMENTATION PACKAGE IN AMMO BAY
$
GRID    11700   0       116.00  0.0     35.00   0         123456
$
$                                 PILOT CG
$
GRID    13500   0       135.00  0.0     78.00   0           456
$
$                             FORWARD FUEL CG
$
GRID    17100   0       169.00  0.0     53.00   0            0
$
$                               AFT FUEL CG
$
GRID    23100   0       232.00  0.0     51.00   0            0
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                                    END
$                              GRID POINT DATA
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                                   BEGIN
$                        WEIGHTS DATA (CONM2 CARDS)
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
$                        BASIC MISSION WEIGHT EMPTY
$                                5759.9 LB
$
$
$                                 FUSELAGE
$
CONM2   93331   3331            1.892
CONM2   93339   3339            3.221
```

```
CONM2       93341     3341              1.962
CONM2       93349     3349              2.701
CONM2       94631     4631              0.922
CONM2       94633     4633              4.425
CONM2       91001     1001              5.541
CONM2       94639     4639              2.676
CONM2       94641     4641              0.621
CONM2       94649     4649              0.925
CONM2       94661     4661              8.249
CONM2       94669     4669              6.663
CONM2       96123     6123              3.694
CONM2       96127     6127              3.545
CONM2       96131     6131              1.113
CONM2       96133     6133              6.058
CONM2       96137     6137              5.058
CONM2       96139     6139              0.755
CONM2       96141     6141              1.950
CONM2       96143     6143              5.711
CONM2       96147     6147              3.897
CONM2       96149     6149              0.821
CONM2       96161     6161              2.947
CONM2       96163     6163              9.863
CONM2       96167     6167              6.506
CONM2       96169     6169              2.029
CONM2       96171     6171              7.951
CONM2       96179     6179              5.502
$   REMOVE MASSES FROM UNSUPPORTED EXTERIOR GRIDS (7031,7039)
$   ON THE GUNNER FLOOR AND REDISTRIBUTE TO GRIDS
$   (7033 AND 7037 RESPECTIVELY) AT INTERSECTING POINTS
$   R.V.  DOMPKA 9/9/87
$ONM2       97031     7031              2.284
$ONM2       97033     7033              8.434
CONM2       97033     7033             10.718
$ONM2       97037     7037              6.885
CONM2       97037     7037              8.337
$ONM2       97039     7039              1.452
$   REMOVE MASSES FROM UNSUPPORTED EXTERIOR GRIDS (7031,7039)
$   ON THE GUNNER FLOOR AND REDISTRIBUTE TO GRIDS
$   (7033 AND 7037 RESPECTIVELY) AT INTERSECTING POINTS
$   R.V.  DOMPKA 9/9/87
CONM2       97043     7043              9.812
CONM2       97047     7047              7.798
CONM2       97061     7061              3.578
CONM2       97063     7063             14.650
CONM2       97067     7067             13.585
CONM2       97069     7069              2.574
CONM2       97071     7071              2.818
CONM2       97079     7079              1.882
$   REMOVE MASSES FROM UNSUPPORTED EXTERIOR GRIDS (8531,8539)
$   ON THE GUNNER FLOOR AND REDISTRIBUTE TO GRIDS
$   (8533 AND 8537 RESPECTIVELY) AT INTERSECTING POINTS
$   R.V.  DOMPKA 9/9/87
$ONM2       98531     8531              2.399
$ONM2       98533     8533             10.570
CONM2       98533     8533             12.869
$ONM2       98537     8537              9.864
CONM2       98537     8537             12.267
$ONM2       98539     8539              2.403
$   REMOVE MASSES FROM UNSUPPORTED EXTERIOR GRIDS (8531,8539)
$   ON THE GUNNER FLOOR AND REDISTRIBUTE TO GRIDS
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$   (8533 AND 8537 RESPECTIVELY) AT INTERSECTING POINTS
$   R.V.  DOMPKA 9/9/87
CONM2       98543     8543              9.724
CONM2       98547     8547              8.931
CONM2       98561     8561              4.317
CONM2       98563     8563             22.532
CONM2       98567     8567             24.136
CONM2       98569     8569              5.718
CONM2       98571     8571              6.222
CONM2       98579     8579              8.408
CONM2       99303     9303              3.970
CONM2       99307     9307              3.957
$ONM2       99313     9313              8.087
$      SEE BELOW FOR MASS REDISTRIBUTION TO 9313 AND 9317
$ONM2       99317     9317              8.088
CONM2       99331     9331              3.170
CONM2       99333     9333             13.973
CONM2       91003     1003             13.744
CONM2       99339     9339              3.147
CONM2       99341     9341              2.554
CONM2       99343     9343             11.084
CONM2       99347     9347             10.863
CONM2       99349     9349              2.147
CONM2       99361     9361              2.380
CONM2       99363     9363              8.351
CONM2       99367     9367              9.072
CONM2       99369     9369              2.335
$   REMOVE MASSES FROM UNSUPPORTED INTERIOR GRID ON BULKHEAD STA 93
$   AND REDISTRIBUTE TO GRIDS AT INTERSECTIONS
$   R.V.  DOMPKA 9/9/87
CONM2       99371     9371             56.072
$ONM2       99371     9371              6.911
$ONM2       99373     9373             49.161
$ONM2       99377     9377             54.894
$ONM2       99379     9379             12.037
CONM2       99379     9379             66.931
$   REMOVE MASSES FROM UNSUPPORTED INTERIOR GRID ON BULKHEAD STA 93
$   AND REDISTRIBUTE TO GRIDS AT INTERSECTIONS
$   R.V.  DOMPKA 9/9/87
$
$   REMOVE MASSES FROM UNSUPPORTED GRIDS ON AMMO FLOOR(11503,11507
$   AND UNSUPPORTED GRIDS ON AMMO COVER(11531,11539)
$   AND REDISTRIBUTE TO GRIDS(11503--9313,13803; 11507--9317,13807)
$   AND REDISTRIBUTE TO GRIDS(11531--11533; 11539--11537)
$   R.V.  DOMPKA 9/9/87
$ONM2      101503    11503              9.083
$ONM2      101507    11507              9.128
CONM2       99313     9313             12.629
CONM2       99317     9317             12.652
CONM2      103803    13803              9.680
CONM2      103807    13807              9.566
$ONM2      101531    11531              5.859
$ONM2      101533    11533             19.722
CONM2      101533    11533             25.581
$ONM2      101537    11537             21.808
CONM2      101537    11537             29.381
$ONM2      101539    11539              7.873
$   REMOVE MASSES FROM UNSUPPORTED GRIDS ON AMMO FLOOR(11503,11507
$   AND UNSUPPORTED GRIDS ON AMMO COVER(11531,11539)
$   AND REDISTRIBUTE TO GRIDS(11503--9313,13803; 11507--9317,13807)
```

```
$  AND REDISTRIBUTE TO GRIDS(11531--11533; 11539--11537)
$  R.V. DOMPKA 8/9/87
$
CONM2      101543    11543          14.344
CONM2      101547    11547          14.791
CONM2      101561    11561           9.470
CONM2      101563    11563          21.696
CONM2      101567    11567          18.154
CONM2      101569    11569           5.917
CONM2      101571    11571           5.538
CONM2      101579    11579           8.826
CONM2      103801    13801           1.113
$ONM2      103803    13803           5.138
$     SEE ABOVE FOR MASS REDISTRIBUTION TO 13803 AND 13807
$ONM2      103807    13807           5.002
CONM2      103809    13809           1.052
CONM2      103821    13821           1.512
CONM2      103823    13823           5.508
CONM2      103827    13827           5.708
CONM2      103829    13829           1.649
CONM2      103831    13831           3.656
CONM2      103833    13833          13.472
CONM2      103837    1004           15.662
CONM2      103839    13839           6.126
CONM2      103841    13841           1.887
CONM2      103843    13843           7.291
CONM2      103847    13847           9.530
CONM2      103848    13848           4.869
CONM2      103849    13849           2.018
CONM2      103861    13861           9.669
CONM2      103863    13863          40.094
CONM2      103867    13867          14.571
CONM2      103869    13869           3.301
CONM2      103871    13871          16.714
CONM2      103879    13879          10.322
CONM2      104801    14801           1.098
CONM2      104803    14803           4.057
CONM2      104807    14807           4.022
CONM2      104809    14809           1.092
CONM2      104821    14821           1.980
CONM2      104823    14823           7.770
CONM2      104827    14827           8.254
CONM2      104829    14829           2.424
CONM2      104831    14831           4.886
CONM2      104833    14833          14.738
CONM2      104837    14837          15.388
CONM2      104839    14839           5.566
CONM2      104841    14841           3.991
CONM2      104843    14843          15.512
CONM2      104847    14847          17.832
CONM2      104849    14849           5.932
CONM2      104861    14861           5.066
CONM2      104863    14863          33.238
CONM2      104867    14867          36.138
CONM2      104869    14869           8.171
CONM2      104881    14881           4.845
CONM2      104883    14883          17.626
CONM2      104887    14887          18.186
CONM2      104889    14889           5.338
CONM2      105601    15601           1.680
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CONM2      105603    15603           6.578
CONM2      105607    15607           7.003
CONM2      105609    15609           2.088
CONM2      105621    15621           2.569
$  REMOVE MASSES FROM UNSUPPORTED INTERIOR GRIDS (15633,15637)
$  ON THE MAIN BEAMS STA 156 AND REDISTRIBUTE TO GRIDS
$  (15623 AND 15627 RESPECTIVELLY) AT INTERSECTING POINTS
$  R.V. DOMPKA 9/9/87
$ONM2      105623    15623           2.463
CONM2      105623    15623           8.074
CONM2      105625    15625          10.568
CONM2      105627    15627           9.355
$ONM2      105627    15627           3.439
CONM2      105629    15629           3.449
$ONM2      105633    15633           5.611
$ONM2      105637    15637           5.916
$  REMOVE MASSES FROM UNSUPPORTED INTERIOR GRIDS (15633,15637)
$  ON THE MAIN BEAMS STA 156 AND REDISTRIBUTE TO GRIDS
$  (15623 AND 15627 RESPECTIVELLY) AT INTERSECTING POINTS
$  R.V. DOMPKA 9/9/87
$
$  REMOVE MASSES FROM UNSUPPORTED FUEL CELL COVER
$  AND REDISTRIBUTE TO GRIDS AT INTERSECTIONS
$  R.V. DOMPKA 9/9/87
CONM2      106481    16481          27.568
$ONM2      106481    16481           8.756
$ONM2      106483    16483           8.759
$ONM2      106485    16485          20.106
$ONM2      106487    16487          10.054
$ONM2      106489    1005            9.778
CONM2      106489    1005           29.886
$  REMOVE MASSES FROM UNSUPPORTED FUEL CELL COVER
$  AND REDISTRIBUTE TO GRIDS AT INTERSECTIONS
$  R.V. DOMPKA 9/9/87
$
CONM2      108601    18601           1.073
CONM2      108603    18603           4.685
CONM2      108607    18607           4.556
CONM2      108609    18608           1.886
CONM2      108621    18621           3.665
CONM2      108623    18623          13.694
CONM2      108625    18625          20.981
CONM2      108627    18627          22.897
CONM2      108629    18629           5.952
CONM2      108631    18631           5.946
CONM2      108633    18633          16.895
CONM2      108635    18635          22.634
CONM2      108637    18637          26.279
CONM2      108639    18639           7.945
CONM2      108641    18641           1.269
CONM2      108642    18642           1.285
CONM2      108643    18643           2.285
CONM2      108644    18644           8.294
CONM2      108645    18645           8.960
CONM2      108646    18646           8.135
CONM2      108647    18647           2.578
CONM2      108648    18648           1.705
CONM2      108649    18649           1.670
CONM2      108651    18651           1.396
CONM2      108652    18652           1.415
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CONM2     108653   18653          1.854
CONM2     108654   18654          1.813
CONM2     108656   18656          1.288
CONM2     108657   18657          1.305
CONM2     108658   18658          1.739
CONM2     108659   18659          1.703
CONM2     108661   18661          2.124
CONM2     108662   18662          2.138
CONM2     108663   18663          7.944
CONM2     108664   18664          8.778
CONM2     108665   18665         13.016
CONM2     108666   18666          8.161
CONM2     108667   18667          7.302
CONM2     108668   18668          2.013
CONM2     108669   18669          1.998
CONM2     108681   18681          8.693
CONM2     108683   18683         32.324
CONM2     108685   18685         60.323
CONM2     108687   18687         27.285
CONM2     108689   18689          9.604
CONM2     109741   .9741          2.346
CONM2     109742   19742          4.409
CONM2     109743   19743          5.156
CONM2     109745   19745         11.232
CONM2     109747   19747          4.231
CONM2     109748   19748          3.642
CONM2     109749   19749          2.398
CONM2     109751   19751          2.757
CONM2     109752   19752          5.133
CONM2     109758   19758          3.995
CONM2     109759   19759          2.844
CONM2     109761   19761          2.221
CONM2     109762   19762          4.633
CONM2     109763   19763          5.632
CONM2     109765   19765         12.896
CONM2     109767   1006           4.155
CONM2     109768   19768          3.600
CONM2     109769   19769          2.303
CONM2     111321   21321          6.659
CONM2     111323   21323          8.994
CONM2     111325   21325         20.033
CONM2     111327   21327         18.946
CONM2     111329   21329          7.634
CONM2     111341   21341          4.530
CONM2     111343   21343          5.686
CONM2     111345   21345         11.857
CONM2     111347   21347          5.713
CONM2     111349   21349          4.679
CONM2     111361   21361         17.886
CONM2     111363   21363         23.858
CONM2     111364   21364         23.001
CONM2     111366   21366         27.471
CONM2     111367   21367         28.406
CONM2     111369   21369         21.681
CONM2     111383   21383         48.827
CONM2     111387   21387         54.371
CONM2     111801   21801          1.894
CONM2     111803   21803          3.639
CONM2     111807   21807          3.893
CONM2     111809   21809          1.953
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CONM2     111821   21821          5.997
CONM2     111823   21823          7.188
CONM2     111825   21825         10.613
CONM2     111827   21827          7.871
CONM2     111829   21829          6.220
CONM2     112701   22701          2.043
CONM2     112703   22703          3.691
CONM2     112707   22707          3.687
CONM2     112709   22709          1.998
CONM2     112721   22721          7.817
CONM2     112723   22723         11.922
CONM2     112725   22725         15.296
CONM2     112727   22727         12.589
CONM2     112729   22729          7.921
CONM2     115001   25001          1.933
CONM2     115003   25003          2.877
CONM2     115007   25007          3.006
CONM2     115009   25009          1.526
CONM2     115021   25021          6.318
CONM2     115025   25025         12.767
CONM2     115029   25029          6.632
CONM2     115041   25041         10.475
CONM2     115045   25045         22.769
CONM2     115049   25049         10.010
CONM2     115061   25061         25.414
CONM2     115085   1007          56.155
CONM2     115069   25069         31.959
CONM2     116801   26801          2.583
CONM2     116809   26809          2.896
$  ****  CONFIG #1   *** INITIAL CONFIGURATION--REMOVE BATTERY ACC PAN
$ONM2     116821   26821          7.919
CONM2     116821   26821          6.969
$  ****  CONFIG #1   *** INITIAL CONFIGURATION--REMOVE BATTERY ACC PAN
CONM2     116825   26825         26.633
CONM2     116829   26829         16.380
CONM2     116841   26841          7.840
CONM2     116845   26845         17.307
CONM2     116849   26849          8.427
CONM2     116861   26861         17.663
CONM2     116865   26865         37.880
CONM2     116869   1008          17.941
CONM2     119905   29905          2.139
$  ****  CONFIG #1   *** INITIAL CONFIGURATION--REMOVE BATTERY ACC PAN
$ONM2     119921   29921          8.430
CONM2     119921   29921          7.480
$  ****  CONFIG #1   *** INITIAL CONFIGURATION--REMOVE BATTERY ACC PAN
CONM2     119925   29925         22.815
CONM2     119929   29929         13.202
$  REMOVE MASSES FROM UNSUPPORTED INTERIOR GRID (29945)
$  AT THE TAILBOOM JUNCTION BULKHEAD AND PUT AT OUTER
$  INTERSECTING POINTS (29941,29949)
$  R.V. DOMPKA 9/8/87
$ONM2     119941   29941         10.447
CONM2     119941   29941         24.158
$ONM2     119945   29945         27.421
CONM2     119949   29949         28.984
$ONM2    -119949   29949         15.273
CONM2     119961   29961         10.173
CONM2     119965   29965         21.300
CONM2     119969   1009          10.763
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```
$   REMOVE MASSES FROM UNSUPPORTED INTERIOR GRID (29945)
$   AT THE TAILBOOM JUNCTION BULKHEAD AND PUT AT OUTER
$   INTERSECTING POINTS (29941,29949)
$   R.V. DOMPKA 9/9/87
$
$
$                                          ELEVATOR
$
CONM2     130141    1012          3.541
CONM2     130142    40142         5.937
CONM2     130143    40143        10.107
CONM2     130147    40147         9.503
CONM2     130148    40148         5.887
CONM2     130149    1013          3.541
$
$                                          RIGHT WING
$
CONM2     151912    61912         0.201
CONM2     151913    61913         0.201
CONM2     151914    61914         0.201
CONM2     151916    61916         0.184
CONM2     151917    61917         0.179
CONM2     151918    61918         0.172
CONM2     151922    61922         0.774
CONM2     151923    61923         0.689
CONM2     151924    61924         0.610
CONM2     151926    61926         0.305
CONM2     151927    61927         0.285
CONM2     151928    61928         0.259
CONM2     151934    61934         0.164
CONM2     151935    61935         0.160
CONM2     151936    61936         0.157
CONM2     152211    62211         0.463
CONM2     152213    62213         0.480
CONM2     152217    62217         0.476
CONM2     152219    62219         0.462
CONM2     152221    62221         1.537
CONM2     152224    62224         1.539
CONM2     152226    62226         1.135
CONM2     152229    62229         0.865
CONM2     152231    62231         0.393
CONM2     152239    62239         0.374
CONM2     152811    62811         0.960
CONM2     152819    62819         1.111
CONM2     152821    62821         1.904
CONM2     152829    62829         1.798
CONM2     152831    62831         0.612
CONM2     152839    62839         0.595
CONM2     153411    63411         1.969
CONM2     153419    63419         2.323
CONM2     153421    63421         3.041
CONM2     153429    63429         2.881
CONM2     153431    63431         1.144
CONM2     153439    63439         1.118
CONM2     154211    64211         2.314
CONM2     154219    64219         3.090
CONM2     154221    64221         3.275
CONM2     154229    64229         3.561
CONM2     154231    64231         1.265
CONM2     154239    64239         1.243
```

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CONM2     155011    65011         1.382
CONM2     155019    65019         2.036
CONM2     155021    65021         1.737
CONM2     155029    65029         2.148
CONM2     155031    65031         0.796
CONM2     155039    65039         0.790
CONM2     155911    65911         0.693
CONM2     155919    65919         0.967
CONM2     155921    1017          1.009
CONM2     155929    65929         1.298
CONM2     155931    65931         0.517
CONM2     155939    65939         0.509
$
$                                          LEFT WING
$
CONM2     161912    71912         0.251
CONM2     161913    71913         0.249
CONM2     161914    71914         0.245
CONM2     161916    71916         0.216
CONM2     161917    71917         0.208
CONM2     161918    71918         0.199
CONM2     161922    71922         0.866
CONM2     161923    71923         0.723
CONM2     161924    71924         0.623
CONM2     161926    71926         0.314
CONM2     161927    71927         0.294
CONM2     161928    71928         0.269
CONM2     161934    71934         0.171
CONM2     161935    71935         0.167
CONM2     161936    71936         0.164
CONM2     162211    72211         0.517
CONM2     162213    72213         0.530
CONM2     162217    72217         0.506
CONM2     162219    72219         0.488
CONM2     162221    72221         1.708
CONM2     162224    72224         1.528
CONM2     162226    72226         1.141
CONM2     162229    72229         0.874
CONM2     162231    72231         0.400
CONM2     162239    72239         0.381
CONM2     162811    72811         0.960
CONM2     162819    72819         1.111
CONM2     162821    72821         1.904
CONM2     162829    72829         1.798
CONM2     162831    72831         0.612
CONM2     162839    72839         0.595
CONM2     163411    73411         1.969
CONM2     163419    73419         2.323
CONM2     163421    73421         3.041
CONM2     163429    73429         2.881
CONM2     163431    73431         1.144
CONM2     163439    73439         1.118
CONM2     164211    74211         2.314
CONM2     164219    74219         3.090
CONM2     164221    74221         3.275
CONM2     164229    74229         3.561
CONM2     164231    74231         1.265
CONM2     164239    74239         1.243
CONM2     165011    75011         1.382
CONM2     165019    75019         2.036
```

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CONM2      185021    75021            1.737
CONM2      185029    75029            2.148
CONM2      185031    75031            0.798
CONM2      185039    75039            0.790
CONM2      185911    75911            0.893
CONM2      185919    75919            0.967
CONM2      185921    1018             1.009
CONM2      185929    75929            1.298
CONM2      185931    75931            0.517
CONM2      185939    75939            0.509
$
$                              SKID LANDING GEAR
$
CONM2      301002    1024             4.953
CONM2      304902    214902          13.024
$ONM2      312002    222002           9.744
CONM2      312002    222002           6.744
CONM2      313402    1026             5.142
CONM2      305102    215102           3.158
CONM2      305202    215202           0.961
$ONM2      312202    222202           9.554
CONM2      312202    222202           6.554
$ONM2      312302    222302           4.635
CONM2      312302    222302           1.635
CONM2      301001    1023             4.953
CONM2      304901    214901          13.024
$ONM2      312001    222001           9.744
CONM2      312001    222001           6.744
CONM2      313401    1025             5.142
CONM2      305101    215101           3.676
CONM2      305201    215201           0.952
$ONM2      312201    222201           9.554
CONM2      312201    222201           6.554
$ONM2      312301    222301           4.619
CONM2      312301    222301           1.619
$
$                        MAIN ROTOR MAST AND TRANSMISSION
$
CONM2      290070    200070          34.465
CONM2      290078    200078          22.740
CONM2      290079    200079          51.048
CONM2      290086    1021            60.052
CONM2      290087    200087          60.052
CONM2      290095    200095          64.933
CONM2      290096    200096          64.933
CONM2      290101    200101          57.277
CONM2      290108    200106          47.013
CONM2      290114    200114          66.626
CONM2      290121    200121          54.350
CONM2      290129    200129          13.810
CONM2      290137    200137           9.253
$  ****  CONFIG #1  *** INITIAL CONFIGURATION--REMOVE PITCH LINKS
$ONM2      290145    200145          12.065
CONM2      290145    200145           8.065
$  ****  CONFIG #1  *** INITIAL CONFIGURATION--REMOVE PITCH LINKS
CONM2      290153    200153           5.852
CONM2      291153    200153         458.000                          MR BLADE
CONM2      292153    200153         489.500                          MR HUB
CONM2      290155    1022             6.124
$
```

```
$                              TAIL ROTOR MAST
$
CONM2      610018    520018           5.862
CONM2      610024    520024           5.537
$  ****  CONFIG #1  *** INITIAL CONFIGURATION--REMOVE GEARBOX FAIRING
$ONM2      610057    520057           4.420
CONM2      610057    520057           3.020
$  ****  CONFIG #1  *** INITIAL CONFIGURATION--REMOVE GEARBOX FAIRING
CONM2      610065    520065           0.0
CONM2      610068    520068           0.819
CONM2      610078    1027             4.374
CONM2      610135    520135           1.007
CONM2      610139    520139           0.249
CONM2      710139    520139          16.500                          TR HUB
CONM2      610152    520152           0.568
CONM2      710152    520152          14.300                          TR BLADE
CONM2      610185    1028             1.583
$
$                          XM-28 WEAPONS INSTALLATION
$
CONM2       91002     1002            1.000                          FLUID
$ONM2       97505     1002          124.500                          TURRET
CONM2       97505     1002          124.500                           TURRET
+TURRET 7.00+4          8.00+4                  8.96+4
CONM2       97507     1002            2.300                          CLOSUREL
CONM2       97508     1002            2.300                          CLOSURER
CONM2       97509     1002            0.100                          TUB STP
CONM2       97510     1002           40.800                          LAUNCHER
CONM2       97511     1002           10.300                          CRADLE
CONM2       97512     1002            9.100                          G/BMOTOR
CONM2       97513     1002           48.300                          MINIGUN
CONM2       97514     1002            1.000                          CABLE
CONM2       97515     1002            1.500                          GEARBOX
CONM2       97516     1002            7.700                          MOTOR
CONM2       97517     1002            4.500                          FEEDTRAY
$
$                  ENGINE AND ENGINE-SUPPORTED WEIGHT ITEMS
$
CONM2      124600    1029           530.000                          ENGINE
+NGINE  1.78+4          1.10+5                  9.43+4
CONM2      124801    1029           48.000                           STARTER
CONM2      124802    1029            5.000                           RESFLUID
CONM2      124803    1029            1.550                           1/2 DS
CONM2      124804    1029            0.800                           TACHXMTR
$
$
$      USEFUL LOADS ON SHIP 59-16444/20876 AT TIME OF BAILMENT (12-18-86)
$
$                              TRANSMISSION OIL
$
CONM2     9200070   200070          22.500
$
$                                ENGINE OIL
$
CONM2      124805    1029           21.200
CONM2      124806    1029            2.200
$
$                      42 AND 80 DEGREE GEAR BOX FLUIDS
```

```
$
CONM2     946445    2629              0.150
CONM2     946446    2642              0.150
CONM2     952045    52045             0.400
$
$
$                                     WING PYLONS
$
$
$                                     RIGHT WING-OUTBOARD
$
CONM2     965929    65929             20.000
$
$
$                                     LEFT WING-OUTBOARD
$
CONM2     975929    75929             20.000
$
$                                     RIGHT WING-INBOARD
$
CONM2     964229    64229             34.000
$
$
$                                     LEFT WING-INBOARD
$
CONM2     974229    74229             34.000
$
$
$
$ USEFUL LOADS ON SHIP 69-16444/20876 FOR SHAKE TEST VEHICLE CONFIG-#1
$
$                                       GUNNER CG
$
CONROD  0020081  7033    08300   2014     1.0
CONROD  0020082  7037    08300   2014     1.0
CONROD  0020083  9333    08300   2014     1.0
CONROD  0020084  1003    08300   2014     1.0
CONM2      908300   08300          175.000
CONM2      908533   08533           25.000
CONM2      908537   08537           25.000
$
$                                       PILOT CG
$
CONROD  0010091 14843    13500   2014     1.0
CONROD  0010092 14847    13500   2014     1.0
CONROD  0010093 14883    13500   2014     1.0
CONROD  0010094 14887    13500   2014     1.0
CONM2      913500   13500          175.000
CONM2      911543   11543           25.000
CONM2      911547   11547           25.000
$
$                                   FORWARD FUEL CG
$
$ONROD  0031071 14823    17100   2014     1.0
$ONROD  0031072 14827    17100   2014     1.0
$ONROD  0031073 18621    17100   2014     1.0
$ONROD  0031074 18629    17100   2014     1.0
CONM2      917100   17100          285.000
CONM2     1017100   17100            4.250
$
```

```
$                                     AFT FUEL CG
$
$ONROD  0031081 21321    23100   2014     1.0
$ONROD  0031082 21329    23100   2014     1.0
$ONROD  0031083 25021    23100   2014     1.0
$ONROD  0031084 25029    23100   2014     1.0
CONM2      923100   23100          280.000
CONM2     1023100   23100            4.250
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                                        END
$                             WEIGHTS DATA (CONM2 CARDS)
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                                    ELEMENT DATA
$                                        BEGIN
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
$                    UPPER MAIN BEAM CAP / RIGHT-HAND SIDE
$                                 209-030-157-003
$                             STA  61.25 TO STA 186.25
$                                 209-030-160-009
$                             STA 186.25 TO STA 298.75
$
CONROD  1570031  6163     7063   7075     0.198
CONROD  1570032  7063     8563   7075     0.195
CONROD  1570033  8563     9363   7075     0.192
CONROD  1570034  9363    11563   7075     0.325
CONROD  1570035 11563    13863   7075     0.284
CONROD  1570036 13863    14863   7075     0.301
CONROD  1570037 14863    18661   7075     0.285
CONROD  1600091 18661    19761   7075     0.411
CONROD  1600092 19761    21361   7075     0.444
CONROD  1600093 21361    25061   7075     0.404
CONROD  1600094 25061    26861   7075     0.390
CONROD  1600095 26861    29961   7075     0.847
$
$                    LOWER MAIN BEAM CAP / RIGHT-HAND SIDE
$                                 209-030-158-004
$                             STA  61.25 TO STA 148.50
$
CONROD  1580041  6133     7033   7075     0.247
CONROD  1580042  7033     8533   7075     0.243
CONROD  1580043  8533     9333   7075     0.249
CONROD  1580044  9333    11533   7075     0.344
CONROD  1580045 11533    13833   7075     0.347
CONROD  1580046 13833    14833   7075     0.227
$
$                    LOWER MAIN BEAM CAP / RIGHT-HAND SIDE
$                                 209-030-159-007
$                             STA 138.70 TO STA 186.25
$                                 209-030-161-029
$                             STA 186.25 TO STA 300.42
$
CONROD  1590071 13823    14823   7075     0.284
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CONROD   1590072 14823    15623    7075     0.285
CONROD   1590073 15623    18621    7075     0.309
CONROD   1610291 18621    21321    7075     0.513
CONROD   1610292 21321    21821    7075     0.545
CONROD   1610293 21821    22721    7075     0.640
CONROD   1610294 22721    25021    7075     0.420
CONROD   1610295 25021    28821    7075     0.410
CONROD   1610296 28821    29921    7075     0.450
$
$                LOWER MAIN BEAM AUXILLARY CAP / RIGHT-HAND SIDE
$                                  209-030-161-015
$                                STA 138.70 TO STA 186.25
$
CONROD   1610151 13821    14821    7075     0.128
CONROD   1610152 14821    15621    7075     0.128
CONROD   1610153 15621    18621    7075     0.128
$
$                LOWER MAIN BEAM AUXILLARY CAP / RIGHT-HAND SIDE
$                                  209-030-211-010
$                                STA  46.00 TO STA 148.50
$
CONROD   2110101  4633     6131    7075     0.059
CONROD   2110102  6131     7031    7075     0.187
CONROD   2110103  7031     8531    7075     0.189
CONROD   2110104  8531     9331    7075     0.183
CONROD   2110105  9331    11531    7075     0.243
CONROD   2110106 11531    13831    7075     0.248
CONROD   2110107 13831    14831    7075     0.174
$
$                UPPER MAIN BEAM AUXILLARY CAP / RIGHT-HAND SIDE
$                              209-030-250-017/091/171
$                                STA  61.25 TO STA 186.25
$
CONROD   2500171  6161     7061    7075     0.054
CONROD   2500172  7061     8561    7075     0.054
CONROD   2500173  8561     9361    7075     0.054
CONROD   2500811  9361    11561    7075     0.053
CONROD   2500812 11561    13861    7075     0.050
CONROD   2500813 13861    14861    7075     0.067
CONROD   2501711 14861    18661    7075     0.104
$
$                      COWLING ATTACH ANGLES - RIGHT SIDE
$                                  209-030-136-071
$                                STA 186.25 TO BS  41.32
$
CONROD   1360711 18661    19761    2024     0.378
CONROD   1360712 19761    21361    2024     0.399
CONROD   1360713 21361    25061    2024     0.162
CONROD   1360714 25061    26861    2024     0.082
CONROD   1360715 26861    29961    2024     0.071
$
$                        MAIN BEAM CHANNEL - RIGHT SIDE
$                                  209-030-182-005
$                                STA 186.25 TO STA 213.94
$
CONROD   1820051 18541    19741    7075     0.288
CONROD   1820052 19741    21341    7075     0.288
$
$                        MAIN BEAM WEB / RIGHT-HAND SIDE
$                                  209-030-129-207
```

```
$                                STA  61.25 TO STA  93.00
$
$    DOUBLERS
CONROD   1290231  6163     7063    7075     0.048
CONROD   1290232  7063     8563    7075     0.047
CONROD   1290233  8563     9363    7075     0.046
CONROD   1290251  6133     7033    7075     0.072
CONROD   1290252  7033     8533    7075     0.075
CONROD   1290253  8533     9333    7075     0.077
CONROD   1290211  6133     6143    7075     0.035
CONROD   1290212  6143     6163    7075     0.035
CONROD   1290271  9333     9343    7075     0.098
CONROD   1290272  9343     9363    7075     0.098
$    INNER SKIN   209-030-129-209    .025 ALUMINUM
CSHEAR   1292090 0257075  6133     7033     7043     6143
CONROD   1290801  6133     7033    7075     0.073
CONROD   1290802  6143     7043    7075     0.122
CONROD   1290811  6133     6143    7075     0.118
CONROD   1290813  7033     7043    7075     0.118
CSHEAR   1292091 0257075  6143     7043     7063     6163
CONROD   1290803  6143     7043    7075     0.122
CONROD   1290804  6163     7063    7075     0.033
CONROD   1290812  6143     6163    7075     0.118
CONROD   1290814  7043     7063    7075     0.118
CSHEAR   1292092 0257075  7033     8533     8543     7043
CONROD   1290921  7033     8533    7075     0.076
CONROD   1290922  7043     8543    7075     0.126
CONROD   1290931  7033     7043    7075     0.181
CONROD   1290933  8533     8543    7075     0.181
CSHEAR   1292093 0257075  7043     8543     8563     7063
CONROD   1290923  7043     8543    7075     0.126
CONROD   1290924  7063     8563    7075     0.034
CONROD   1290932  7043     7063    7075     0.181
CONROD   1290934  8543     8563    7075     0.181
CSHEAR   1292094 0257075  8533     9333     9343     8543
CONROD   1290941  8533     9333    7075     0.078
CONROD   1290942  8543     9343    7075     0.130
CONROD   1290951  8533     8543    7075     0.123
CONROD   1290953  9333     9343    7075     0.123
CSHEAR   1292095 0257075  8543     9343     9363     8563
CONROD   1290943  8543     9343    7075     0.130
CONROD   1290944  8563     9363    7075     0.035
CONROD   1290952  8543     8563    7075     0.123
CONROD   1290954  9343     9363    7075     0.123
$    INTERIOR SKIN   209-030-129-041    .016 ALUMINUM
CSHEAR   1290411 0167075  7033     8533     8543     7043
CONROD   1294121  7033     8533    7075     0.011
CONROD   1294122  7043     8543    7075     0.057
CONROD   1294131  7033     7043    7075     0.116
CONROD   1294133  8533     8543    7075     0.116
CSHEAR   1290412 0167075  7043     8543     8563     7063
CONROD   1294123  7043     8543    7075     0.057
CONROD   1294124  7063     8563    7075     0.001
CONROD   1294132  7043     7063    7075     0.116
CONROD   1294134  8543     8563    7075     0.116
$    INTERIOR SKIN   209-030-129-159    .016 ALUMINUM
CSHEAR   1291591 0167075  7033     8533     8543     7043
CONROD   1295901  7033     8533    7075     0.024
CONROD   1295902  7043     8543    7075     0.071
CONROD   1295911  7033     7043    7075     0.116
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```
CONROD   1295913  8533     8543     7075     0.116
CSHEAR   1291592 0167075  7043      8543     8563     7063
CONROD   1295903  7043     8543     7075     0.071
CONROD   1295904  7063     8563     7075     0.001
CONROD   1295912  7043     7063     7075     0.116
CONROD   1295914  8543     8563     7075     0.116
$    OUTER SKIN    209-030-129-183     .016 ALUMINUM
CSHEAR   1291831 0167075  6133      7033     7043     6143
CONROD   1298301  6133     7033     7075     0.026
CONROD   1298302  6143     7043     7075     0.071
CONROD   1298311  6133     6143     7075     0.065
CONROD   1298313  7033     7043     7075     0.065
CSHEAR   1291832 0167075  6143      7043     7063     6163
CONROD   1298303  6143     7043     7075     0.071
CONROD   1298304  6163     7063     7075     0.003
CONROD   1298312  6143     6163     7075     0.065
CONROD   1298314  7043     7063     7075     0.065
CSHEAR   1291833 0167075  7033      8533     8543     7043
CONROD   1298321  7033     8533     7075     0.028
CONROD   1298322  7043     8543     7075     0.074
CONROD   1298331  7033     7043     7075     0.116
CONROD   1298333  8533     8543     7075     0.116
CSHEAR   1291834 0167075  7043      8543     8563     7063
CONROD   1298323  7043     8543     7075     0.074
CONROD   1298324  7063     8563     7075     0.003
CONROD   1298332  7043     7063     7075     0.116
CONROD   1298334  8543     8563     7075     0.116
CSHEAR   1291835 0167075  8533      9333     9343     8543
CONROD   1298341  8533     9333     7075     0.033
CONROD   1298342  8543     9343     7075     0.079
CONROD   1298351  8533     8543     7075     0.062
CONROD   1298353  9333     9343     7075     0.062
CSHEAR   1291836 0167075  8543      9343     9363     8563
CONROD   1298343  8543     9343     7075     0.079
CONROD   1298344  8563     9363     7075     0.007
CONROD   1298352  8543     8563     7075     0.062
CONROD   1298354  9343     9363     7075     0.062
$
$                          MAIN BEAM WEB / RIGHT-HAND SIDE
$                                  209-030-128-207
$                             STA  93.00 TO STA 138.70
$
$    DOUBLERS
CONROD   1290234  9363    11563    7075     0.024
CONROD   1290235 11563    13863    7075     0.024
CONROD   1290331  9343    11543    7075     0.090
CONROD   1291871 11533    13833    7075     0.044
CONROD   1290254  9333    11533    7075     0.046
CONROD   1291972 11543    13843    7075     0.090
CONROD   1290273  9333     9343    7075     0.043
CONROD   1290274  9343     9363    7075     0.043
CONROD   1291373 13833    13843    7075     0.054
CONROD   1291374 13843    13863    7075     0.054
$    INNER SKIN    209-030-129-209     .025 ALUMINUM
CSHEAR   1292096 0257075  9333     11533    11543    9343
CONROD   1290961  9333    11533    7075     0.079
CONROD   1290962  9343    11543    7075     0.134
CONROD   1290971  9333     9343    7075     0.256
CONROD   1290973 11533    11543    7075     0.256
CSHEAR   1292097 0257075  9343     11543    11563    9363
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CONROD   1290963  9343    11543    7075     0.134
CONROD   1290964  9363    11563    7075     0.042
CONROD   1290972  9343     9363    7075     0.256
CONROD   1290974 11543    11563    7075     0.256
CSHEAR   1292098 0257075 11533    13833    13843    11543
CONROD   1290981 11533    13833    7075     0.077
CONROD   1290982 11543    13843    7075     0.140
CONROD   1290993 11533    11543    7075     0.289
CONROD   1290995 13833    13843    7075     0.289
CSHEAR   1292099 0257075 11543    13843    13863    11563
CONROD   1290983 11543    13843    7075     0.140
CONROD   1290984 11563    13863    7075     0.054
CONROD   1290994 11543    11563    7075     0.288
CONROD   1290996 13843    13863    7075     0.288
$    OUTER SKIN    209-030-129-149     .016 ALUMINUM
CSHEAR   1291491 0167075  9333     11533    11543    9343
CONROD   1294901  9333    11533    7075     0.030
CONROD   1294902  9343    11543    7075     0.080
CONROD   1294911  9333     9343    7075     0.155
CONROD   1294913 11533    11543    7075     0.155
CSHEAR   1291492 0167075  9343     11543    11563    9363
CONROD   1294903  9343    11543    7075     0.080
CONROD   1294904  9363    11563    7075     0.007
CONROD   1294912  9343     9363    7075     0.155
CONROD   1294914 11543    11563    7075     0.155
CSHEAR   1291493 0167075 11533    13833    13843    11543
CONROD   1294921 11533    13833    7075     0.028
CONROD   1294922 11543    13843    7075     0.084
CONROD   1294931 11533    11543    7075     0.176
CONROD   1294933 13833    13843    7075     0.176
CSHEAR   1291494 0167075 11543    13843    13863    11563
CONROD   1294923 11543    13843    7075     0.084
CONROD   1294924 11563    13863    7075     0.014
CONROD   1294932 11543    11563    7075     0.176
CONROD   1294934 13843    13863    7075     0.176
$
$                          MAIN BEAM WEB / RIGHT-HAND SIDE
$                                  209-030-128-207
$                            STA 138.70 TO STA 148.50
$
$    DOUBLERS
CONROD   1291985 13863    14863    7075     0.075
CONROD   1291984 13843    14843    7075     0.163
CONROD   1291273 13833    14833    7075     0.084
CONROD   1291274 13833    13843    7075     0.044
CONROD   1291986 13843    13863    7075     0.087
CONROD   1291275 14833    14843    7075     0.036
CONROD   1291987 14843    14863    7075     0.083
$    INNER SKIN    209-030-128-209     .025 ALUMINUM
CSHEAR   1292101 0257075 13803    14803    14823    13823
CONROD   1291001 13803    14803    7075     0.056
CONROD   1291002 13823    14823    7075     0.158
CONROD   1291011 13803    13823    7075     0.120
CONROD   1291015 14803    14823    7075     0.120
CSHEAR   1292102 0257075 13823    14823    14833    13833
CONROD   1291003 13823    14823    7075     0.158
CONROD   1291004 13833    14833    7075     0.088
CONROD   1291012 13823    13833    7075     0.120
CONROD   1291016 14823    14833    7075     0.120
CSHEAR   1292103 0257075 13833    14833    14843    13843
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CONROD   1291005 13833    14833    7075     0.078
CONROD   1291006 13843    14843    7075     0.144
CONROD   1291013 13833    13843    7075     0.120
CONROD   1291017 14833    14843    7075     0.120
CSHEAR   1292104 0257075 13843    14843    14863    13863
CONROD   1291007 13843    14843    7075     0.144
CONROD   1291008 13863    14863    7075     0.063
CONROD   1291014 13843    13863    7075     0.120
CONROD   1291018 14843    14863    7075     0.120
$    INTERIOR SKIN    209-030-129-197     040 ALUMINUM
CSHEAR   1291981 0407075 13803    14803    14823    13823
CONROD   1299801 13803    14803    7075     0.167
CONROD   1299802 13823    14823    7075     0.167
CONROD   1299811 13803    13823    7075     0.191
CONROD   1299814 14803    14823    7075     0.191
CSHEAR   1291982 0407075 13823    14823    14833    13833
CONROD   1299803 13823    14823    7075     0.201
CONROD   1299804 13833    14833    7075     0.201
CONROD   1299812 13823    13833    7075     0.191
CONROD   1299815 14823    14833    7075     0.191
CSHEAR   1291983 0407075 13833    14833    14843    13843
CONROD   1299805 13833    14833    7075     0.142
CONROD   1299806 13843    14843    7075     0.142
CONROD   1299813 13833    13843    7075     0.191
CONROD   1299816 14833    14843    7075     0.191
$    OUTER SKIN    209-030-129-127      020 ALUMINUM
CSHEAR   1291271 0207075 13803    14803    14823    13823
CONROD   1292701 13803    14803    7075     0.047
CONROD   1292702 13823    14823    7075     0.122
CONROD   1292711 13803    13823    7075     0.096
CONROD   1292713 14803    14823    7075     0.096
CSHEAR   1291272 0207075 13823    14823    14833    13833
CONROD   1292703 13823    14823    7075     0.122
CONROD   1292704 13833    14833    7075     0.034
CONROD   1292712 13823    13833    7075     0.096
CONROD   1292714 14823    14833    7075     0.096
$    OUTER SKIN    209-030-129-017     .016 ALUMINUM
CSHEAR   1290171 0167075 13843    14843    14863    13863
CONROD   1291701 13843    14843    7075     0.035
CONROD   1291702 13863    14863    7075     0.035
CONROD   1291703 13843    13863    7075     0.055
CONROD   1291704 14843    14863    7075     0.055
$    OUTER SKIN    209-030-129-019     016 ALUMINUM
CSHEAR   1290191 0167075 13833    14833    14843    13843
CONROD   1291901 13833    14833    7075     0.013
CONROD   1291902 13843    14843    7075     0.013
CONROD   1291903 13833    13843    7075     0.055
CONROD   1291904 14833    14843    7075     0.055
$
$                          MAIN BEAM WEB / RIGHT-HAND SIDE
$                                  209-030-130-005
$                             STA 148.50 TO STA 186.25
$
$    DOUBLERS
CONROD   1300231 14863    18661    7075     0.062
CONROD   1300352 14823    15623    7075     0.095
CONROD   1300271 15623    18621    7075     0.097
CONROD   1300353 14823    14833    7075     0.109
CONROD   1300411 14833    14843    7075     0.109
CONROD   1300412 14843    14863    7075     0.109
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CONROD   1300211 18621    18631    7075     0.108
CONROD   1300212 18631    18641    7075     0.108
CONROD   1300213 18641    18651    7075     0.108
CONROD   1300214 18851    18656    7075     0.108
CONROD   1300215 18656    18661    7075     0.108
$    INNER SKIN    209-030-130-039     .020 GLASS FABRIC
CSHEAR   1300391 0200076 14823    15623    15633    14833
CONROD   1303901 14823    15623    0076     0.096
CONROD   1303902 14833    15633    0076     0.096
CONROD   1303903 14823    14833    0076     0.074
CONROD   1303904 15623    15633    0076     0.074
CSHEAR   1300392 0200076 15623    18621    18631    15633
CONROD   1303911 15623    18621    0076     0.096
CONROD   1303912 15633    18631    0076     0.096
CONROD   1303921 15623    15633    0076     0.282
CONROD   1303924 18621    18831    0076     0.282
CTRMEM   1300393 0200076 14833    15633    14843
CSHEAR   1300394 0200076 15633    18631    18641    14843
CONROD   1303913 15633    18631    0076     0.096
CONROD   1303914 14843    18641    0076     0.096
CONROD   1303922 15633    14843    0076     0.320
CONROD   1303925 18631    18641    0076     0.320
CSHEAR   1300395 0200076 14843    18651    18656    14863
CONROD   1303915 14843    18851    0076     0.083
CONROD   1303916 14863    18656    0076     0.083
CONROD   1303923 14843    14863    0076     0.357
CONROD   1303926 18651    18656    0076     0.357
$    INTERIOR SKIN    209-030-130-029     025 TITANIUM
CSHEAR   1300291 0259046 14823    15623    15633    14833
CONROD   1302901 14823    15623    9046     0.050
CONROD   1302902 14833    15633    9046     0.050
CONROD   1302903 14823    14833    9046     0.044
CONROD   1302904 15623    15633    9046     0.044
$    INTERIOR SKIN    209-030-130-036     032 TITANIUM
CSHEAR   1300351 0329046 14823    15623    15633    14833
CONROD   1303501 14823    15623    9046     0.089
CONROD   1303502 14833    15633    9046     0.089
CONROD   1303503 14823    14833    9046     0.090
CONROD   1303504 15623    15633    9046     0.090
$    OUTER SKIN    209-030-130-033     012 TITANIUM
CSHEAR   1300331 0129046 14823    15623    15633    14833
CONROD   1303301 14823    15623    9046     0.057
CONROD   1303302 14833    15633    9046     0.057
CONROD   1303303 14823    14833    9046     0.045
CONROD   1303304 15623    15633    9046     0.045
CSHEAR   1300332 0129046 15623    18621    18631    15633
CONROD   1303311 15623    18621    9046     0.057
CONROD   1303312 15633    18631    9046     0.057
CONROD   1303321 15623    15633    9046     0.189
CONROD   1303324 18621    18631    9046     0.189
CTRMEM   1300333 0129046 14833    15633    14843
CSHEAR   1300334 0129046 15633    18631    18641    14843
CONROD   1303313 15633    18631    9046     0.058
CONROD   1303314 14843    18641    9046     0.058
CONROD   1303322 15633    14843    9046     0.192
CONROD   1303325 18631    18641    9046     0.192
CSHEAR   1300335 0129046 14843    18851    18656    14863
CONROD   1303315 14843    18851    9046     0.050
CONROD   1303316 14863    18656    9046     0.050
CONROD   1303323 14843    14863    9046     0.214
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CONROD  1303326 18651   18656   9046    0.214
$
$                       MAIN BEAM WEB / RIGHT-HAND SIDE
$                               209-030-137-032
$                          STA 186.25 TO STA 213.94
$
$   DOUBLERS
CONROD  1370364 19741   21341   7075    0.089
CONROD  1370365 19761   21361   7075    0.067
CONROD  1370366 19741   19751   7075    0.156
CONROD  1370367 19751   19761   7075    0.156
CONROD  1370368 21341   21361   7075    0.089
$   INNER SKIN   209-030-137-024     .012 ALUMINUM
CSHEAR  1370241 0127075 19741   21341   21361   19751
CONROD  1372401 19741   21341   7075    0.020
CONROD  1372402 19751   21361   7075    0.020
CONROD  1372403 19741   19751   7075    0.076
CONROD  1372404 21341   21361   7075    0.076
CTRMEM  1370242 0127075 19751   21361   19761
$   INNER SKIN   209-030-137-036     .040 ALUMINUM
CTRMEM  1370361 0407075 18641   19741   18851
CSHEAR  1370362 0407075 18651   19741   19751   18656
CONROD  1373601 18651   19741   7075    0.139
CONROD  1373602 18656   19751   7075    0.117
CONROD  1373611 18851   18656   7075    0.213
CONROD  1373613 19741   19751   7075    0.213
CSHEAR  1370363 0407075 18656   19751   19761   18661
CONROD  1373603 18656   19751   7075    0.117
CONROD  1373604 18661   19761   7075    0.001
CONROD  1373612 18656   18661   7075    0.213
CONROD  1373614 19751   19761   7075    0.213
$   OUTER SKIN   209-030-137-006     .040 ALUMINUM
CTRMEM  1370061 0407075 18841   19741   18651
CSHEAR  1370062 0407075 18851   19741   19751   18656
CONROD  1370601 18651   19741   7075    0.143
CONROD  1370602 18656   19751   7075    0.095
CONROD  1370611 18651   18656   7075    0.213
CONROD  1370613 19741   19751   7075    0.213
CSHEAR  1370063 0407075 18656   19751   19761   18661
CONROD  1370603 18656   19751   7075    0.095
CONROD  1370604 18661   19761   7075    0.109
CONROD  1370612 18656   18661   7075    0.213
CONROD  1370614 19751   19761   7075    0.213
CSHEAR  1370064 0407075 19741   21341   21361   19751
CONROD  1370621 19741   21341   7075    0.148
CONROD  1370622 19751   21361   7075    0.148
CONROD  1370623 19741   19751   7075    0.341
CONROD  1370624 21341   21361   7075    0.341
CTRMEM  1370065 0407075 19751   21361   19761
$
$                       MAIN BEAM WEB / RIGHT-HAND SIDE
$                               209-030-180-019
$                          STA 186.25 TO STA 213.94
$
CONROD  1800191 21321   18641   2024    0.491
$
$                       MAIN BEAM WEB / RIGHT-HAND SIDE
$                               209-030-120-027
$                          STA 213.94 TO STA 250.00
$
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$   DOUBLERS
CONROD  1200133 21321   21821   7075    0.279
CONROD  1200134 21821   22721   7075    0.294
CONROD  1200135 22721   25021   7075    0.351
CONROD  1200151 21361   25061   7075    0.238
CONROD  1200136 21321   21341   7075    0.178
CONROD  1200137 21341   21361   7075    0.178
CONROD  1200091 25021   25041   7075    0.163
CONROD  1200092 25041   25061   7075    0.163
$   INNER SKIN   209-030-120-007     .020 GLASS FABRIC
CTRMEM  1200071 0200076 21321   21821   21341
CTRMEM  1200072 0200076 21821   22721   21341
CSHEAR  1200073 0200076 22721   25021   25041   21341
CONROD  1200701 22721   25021   0076    0.131
CONROD  1200702 21341   25041   0076    0.203
CONROD  1200711 22721   21341   0076    0.292
CONROD  1200713 25021   25041   0076    0.292
CSHEAR  1200074 0200076 21341   25041   25061   21361
CONROD  1200703 21341   25041   0076    0.203
CONROD  1200704 21361   25061   0076    0.034
CONROD  1200712 21341   21361   0076    0.361
CONROD  1200714 25041   25061   0076    0.361
$   INTERIOR SKIN   209-030-120-013     .032 TITANIUM
CTRMEM  1200131 0328046 21321   21821   21341
CTRMEM  1200132 0328046 21821   22721   21341
$   OUTER SKIN   209-030-120-011     .016 TITANIUM
CTRMEM  1200111 0169046 21321   21821   21341
CTRMEM  1200112 0169046 21821   22721   21341
CSHEAR  1200113 0169046 22721   25021   25041   21341
CONROD  1201101 22721   25021   9046    0.105
CONROD  1201102 21341   25041   9046    0.162
CONROD  1201111 22721   21341   9046    0.234
CONROD  1201113 25021   25041   9046    0.234
CSHEAR  1200114 0169046 21341   25041   25061   21361
CONROD  1201103 21341   25041   9046    0.162
CONROD  1201104 21361   25061   9046    0.027
CONROD  1201112 21341   21361   9046    0.288
CONROD  1201114 25041   25061   9046    0.288
$
$                       MAIN BEAM WEB / RIGHT-HAND SIDE
$                               209-030-118-063
$                          STA 250.00 TO BS  41.32
$
$   INNER SKIN   209-030-118-071     .008 ALUMINUM
CSHEAR  1180711 0082024 25021   26821   26841   25041
CONROD  1187101 25021   26821   2024    0.034
CONROD  1187102 25041   26841   2024    0.074
CONROD  1187111 25021   25041   2024    0.061
CONROD  1187113 26821   26841   2024    0.061
CSHEAR  1180712 0082024 25041   26841   26861   25061
CONROD  1187103 25041   26841   2024    0.074
CONROD  1187104 25061   26861   2024    0.011
CONROD  1187112 25041   25061   2024    0.061
CONROD  1187114 26841   26861   2024    0.061
$   INNER SKIN   209-030-118-045     .008 ALUMINUM
CSHEAR  1180451 0082024 26821   26921   26941   26841
CONROD  1184501 26821   26921   2024    0.023
CONROD  1184502 26841   26941   2024    0.069
CONROD  1184511 26821   26841   2024    0.118
CONROD  1184513 26921   26941   2024    0.118
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CSHEAR  1180452 0082024 26841   28941   29961   26861
CONROD  1184503 26841   28941   2024    0.089
CONROD  1184504 26861   28961   2024    0.014
CONROD  1184512 26841   28861   2024    0.118
CONROD  1184514 29941   28961   2024    0.118
$    OUTER SKIN    209-030-118-069      .071 ALUMINUM
CSHEAR  1180691 0717075 25021   26821   26841   25041
CONROD  1186901 25021   26821   7075    0.415
CONROD  1186902 25041   26841   7075    0.676
CONROD  1186911 25021   25041   7075    0.646
CONROD  1186913 26821   26841   7075    0.646
CSHEAR  1180692 0717075 25041   26841   26861   25061
CONROD  1186903 25041   26841   7075    0.676
CONROD  1186904 25061   26861   7075    0.209
CONROD  1186912 25041   25061   7075    0.646
CONROD  1186914 26841   26861   7075    0.646
CSHEAR  1180693 0717075 26821   29921   29941   26841
CONROD  1186921 26821   29921   7075    0.356
CONROD  1186922 26841   29941   7075    0.649
CONROD  1186931 26821   26841   7075    1.109
CONROD  1186933 29921   28941   7075    1.109
CSHEAR  1180684 0717075 26841   28941   29961   26861
CONROD  1186923 26841   28941   7075    0.649
CONROD  1186924 26861   29961   7075    0.276
CONROD  1186932 26841   26861   7075    1.109
CONROD  1186934 29941   29961   7075    1.109
$
$                       SIDE PANELS AND FRAMES / RIGHT SIDE
$                           STA  61.25 TO STA 186.25
$
$
$                                   CANOPY FRAME
$                                 209-030-500-309
$
CONROD  5003111   6161    7071    7075    0.234
CONROD  5003112   7071    8571    7075    0.230
CONROD  5003113   8571    9371    7075    0.227
CONROD  5003114   9371    11571   7075    0.213
CONROD  5003115   11571   13871   7075    0.201
CONROD  5003116   13871   14881   7075    0.200
$
$                                       SKIN
$                                 209-030-179-161
$
CTRMEM  1791611 0322024   6161    7071    7061
CSHEAR  1791612 0322024   7061    7071    8571    8561
CONROD  1796101   7061    8561    2024    0.040
CONROD  1796102   7071    8571    2024    0.040
CONROD  1796103   7061    7071    2024    0.232
CONROD  1796104   8561    8571    2024    0.232
CSHEAR  1791613 0322024   8561    8571    9371    9361
CONROD  1796111   8561    9361    2024    0.072
CONROD  1796112   8571    9371    2024    0.072
CONROD  1796113   8561    8571    2024    0.202
CONROD  1796114   9361    9371    2024    0.202
CSHEAR  1791614 0322024   9361    9371    11571   11561
CONROD  1796121   9361    11561   2024    0.102
CONROD  1796122   9371    11571   2024    0.102
CONROD  1796123   9361    9371    2024    0.270
CONROD  1796124   11561   11571   2024    0.270
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CSHEAR  1791615 0322024 11561   11571   13871   13861
CONROD  1796131 11561   13861   2024    0.140
CONROD  1796132 11571   13871   2024    0.140
CONROD  1796133 11561   11571   2024    0.382
CONROD  1796134 13861   13871   2024    0.382
CSHEAR  1791616 0322024 13861   13871   14881   14861
CONROD  1796141 13861   14861   2024    0.195
CONROD  1796142 13871   14881   2024    0.195
CONROD  1796143 13861   13871   2024    0.187
CONROD  1796144 14861   14881   2024    0.187
$
$                                       PANEL
$                                 209-030-125-143
$
$    DOUBLERS
CONROD  1251481 14861   18861   2024    0.140
CONROD  1251571 14881   16481   2024    0.112
CONROD  1251572 16481   18681   2024    0.111
CONROD  1251511 14861   14881   2024    0.121
CONROD  1251551 18661   18681   2024    0.121
$    INNER SKIN    209-030-125-027      008 ALUMINUM
CTRMEM  1250271 0082024 14861   14881   16481
CSHEAR  1250272 0082024 14861   16481   18681   18661
CONROD  1252701 14861   18661   2024    0.035
CONROD  1252702 16481   18681   2024    0.035
CONROD  1252703 14861   16481   2024    0.120
CONROD  1252704 18661   18681   2024    0.120
$    OUTER SKIN    209-030-379-001      021 ALUMINUM
CTRMEM  3790011 0212024 14861   14881   16481
CSHEAR  3790012 0212024 14861   16481   18581   18661
CONROD  3790101 14861   18661   2024    0.121
CONROD  3790102 16481   18681   2024    0.121
CONROD  3790103 14861   16481   2024    0.315
CONROD  3790104 18561   18681   2024    0.315
$
$                                       FRAME
$                                 209-030-125-057
$
CONROD  1250571 14881   16481   2024    0.115
CONROD  1250572 16481   18681   2024    0.115
$
$                       UPPER MAIN BEAM CAP / LEFT-HAND SIDE
$                                 209-030-157-001
$                           STA  61.25 TO STA 186.25
$                                 209-030-160-005
$                           STA 186.25 TO STA 298.75
$
CONROD  1570011   6167    7067    7075    0.198
CONROD  1570012   7087    8567    7075    0.194
CONROD  1570013   8567    9367    7075    0.191
CONROD  1570014   9367    11567   7075    0.326
CONROD  1570015   11567   13867   7075    0.285
CONROD  1570016   13867   14867   7075    0.275
CONROD  1570017   14867   18569   7075    0.348
CONROD  1800051   18689   19789   7075    0.407
CONROD  1800052   19789   21389   7075    0.441
CONROD  1800053   21389   25069   7075    0.392
CONROD  1800054   25069   1008    7075    0.380
CONROD  1800055   1008    1008    7075    0.838
$
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$                       LOWER MAIN BEAM CAP / LEFT-HAND SIDE
$                                  209-030-158-003
$                              STA  61.25 TO STA 148.50
$
CONROD   1580031   6137     7037    7075     0.247
CONROD   1580032   7037     8537    7075     0.248
CONROD   1580033   8537     1003    7075     0.249
CONROD   1580034   1003    11537    7075     0.344
CONROD   1580035  11537     1004    7075     0.346
CONROD   1580036   1004    14837    7075     0.221
$
$                       LOWER MAIN BEAM CAP / LEFT-HAND SIDE
$                                  209-030-159-005
$                              STA 138.70 TO STA 186.25
$                                  209-030-161-019
$                              STA 186.25 TO STA 300.42
$
CONROD   1590051  13827    14827    7075     0.274
CONROD   1590052  14827    15627    7075     0.303
CONROD   1590053  15627    18629    7075     0.315
CONROD   1610191  18629    21329    7075     0.412
CONROD   1610192  21329    21829    7075     0.445
CONROD   1610193  21829    22729    7075     0.522
CONROD   1610194  22729    25029    7075     0.348
CONROD   1610195  25029    26829    7075     0.341
CONROD   1610196  26829    29929    7075     0.351
$
$                   LOWER MAIN BEAM AUXILLARY CAP / LEFT-HAND SIDE
$                                  209-030-161-013
$                              STA 138.70 TO STA 186.25
$
CONROD   1610131  13829    14829    7075     0.128
CONROD   1610132  14829    15629    7075     0.128
CONROD   1610133  15629    18629    7075     0.128
$
$                   LOWER MAIN BEAM AUXILLARY CAP / LEFT-HAND SIDE
$                                  209-030-211-053
$                              STA  46.00 TO STA 148.50
$
CONROD   2110531   1001     6139    7075     0.059
CONROD   2110532   6139     7039    7075     0.187
CONROD   2110533   7039     8539    7075     0.190
CONROD   2110534   8539     9339    7075     0.193
CONROD   2110535   9339    11539    7075     0.243
CONROD   2110536  11539    13839    7075     0.247
CONROD   2110537  13839    14839    7075     0.166
$
$                   UPPER MAIN BEAM AUXILLARY CAP / LEFT-HAND SIDE
$                                209-030-210-045/055/071
$                              STA  61.25 TO STA 186.25
$
CONROD   2100451   6169     7069    7075     0.055
CONROD   2100452   7069     8569    7075     0.054
CONROD   2100453   8569     9369    7075     0.054
CONROD   2100551   9369    11569    7075     0.054
CONROD   2100552  11569    13869    7075     0.054
CONROD   2100553  13869    14869    7075     0.064
CONROD   2100711  14869    18669    7075     0.119
$
$                       COWLING ATTACH ANGLES - LEFT SIDE
```

```
$                                  209-030-136-089
$                              STA 186.25 TO BS  41.32
$
CONROD   1360691  18669    19769    2024     0.386
CONROD   1360692  19769    21369    2024     0.411
CONROD   1360693  21369    25069    2024     0.162
CONROD   1360694  25069     1008    2024     0.082
CONROD   1360695   1008     1009    2024     0.071
$
$                       MAIN BEAM CHANNEL - LEFT SIDE
$                                  209-030-182-001
$                              STA 186.25 TO STA 213.94
$
CONROD   1820011  18649    19749    7075     0.288
CONROD   1820012  19749    21349    7075     0.288
$
$                       MAIN BEAM WEB / LEFT-HAND SIDE
$                                  209-030-129-199
$                              STA  61.25 TO STA  93.00
$
$    DOUBLERS
CONROD   1290754   6167     7067    7075     0.033
CONROD   1290755   7067     8567    7075     0.033
CONROD   1290731   8567     9367    7075     0.034
CONROD   1290756   6137     7037    7075     0.038
CONROD   1290991   7037     8537    7075     0.041
CONROD   1290992   8537     1003    7075     0.042
CONROD   1290757   6137     6147    7075     0.035
CONROD   1290758   6147     6167    7075     0.035
CONROD   1290781   1003     9347    7075     0.122
CONROD   1290782   9347     9367    7075     0.122
$    INNER SKIN    209-030-129-205    .025 ALUMINUM
CSHEAR   1292050 0257075   6137     7037     7047     6147
CONROD   1290501   6137     7037    7075     0.072
CONROD   1290502   6147     7047    7075     0.122
CONROD   1290511   6137     6147    7075     0.118
CONROD   1290513   7037     7047    7075     0.118
CSHEAR   1292051 0257075   6147     7047     7067     6167
CONROD   1290503   6147     7047    7075     0.122
CONROD   1290504   6167     7067    7075     0.033
CONROD   1290512   6147     6167    7075     0.118
CONROD   1290514   7047     7067    7075     0.118
CSHEAR   1292052 0257075   7037     8537     8547     7047
CONROD   1290521   7037     8537    7075     0.075
CONROD   1290522   7047     8547    7075     0.126
CONROD   1290531   7037     7047    7075     0.181
CONROD   1290533   8537     8547    7075     0.181
CSHEAR   1292053 0257075   7047     8547     8567     7067
CONROD   1290523   7047     8547    7075     0.126
CONROD   1290524   7067     8567    7075     0.034
CONROD   1290532   7047     7067    7075     0.181
CONROD   1290534   8547     8567    7075     0.181
CSHEAR   1292054 0257075   8537     1003     9347     8547
CONROD   1290541   8537     1003    7075     0.078
CONROD   1290542   8547     9347    7075     0.130
CONROD   1290551   8537     8547    7075     0.123
CONROD   1290553   1003     9347    7075     0.123
CSHEAR   1292055 0257075   8547     9347     9367     8567
CONROD   1290543   8547     9347    7075     0.130
CONROD   1290544   8567     9367    7075     0.035
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CONROD   1290552  8547    8567    7075     0.123
CONROD   1290554  9347    9367    7075     0.123
$    INTERIOR SKIN    209-030-129-075    .016 ALUMINUM
CSHEAR   1290751 0167075  6137     7037     7047     6147
CONROD   1297501  6137    7037    7075     0.023
CONROD   1297502  6147    7047    7075     0.069
CONROD   1297511  6137    6147    7075     0.061
CONROD   1297513  7037    7047    7075     0.061
CSHEAR   1290752 0167075  6147     7047     7067     6167
CONROD   1297503  6147    7047    7075     0.069
CONROD   1297504  6167    7067    7075     0.001
CONROD   1297512  6147    6167    7075     0.061
CONROD   1297514  7047    7067    7075     0.061
CSHEAR   1290753 0167075  7047     8547     8567     7067
CONROD   1297521  7047    8547    7075     0.011
CONROD   1297522  7067    8567    7075     0.011
CONROD   1297523  7047    7067    7075     0.102
CONROD   1297524  8547    8567    7075     0.102
$    INTERIOR SKIN    209-030-129-077    .012 ALUMINUM
CSHEAR   1290771 0127075  7047     8547     8567     7067
CONROD   1297701  7047    8547    7075     0.008
CONROD   1297702  7067    8567    7075     0.008
CONROD   1297703  7047    7067    7075     0.058
CONROD   1297704  8547    8567    7075     0.058
$    OUTER SKIN    209-030-129-201    .016 ALUMINUM
CSHEAR   1292011 0167075  6137     7037     7047     6147
CONROD   1290101  6137    7037    7075     0.026
CONROD   1290102  6147    7047    7075     0.071
CONROD   1290111  6137    6147    7075     0.065
CONROD   1290113  7037    7047    7075     0.065
CSHEAR   1292012 0167075  6147     7047     7067     6167
CONROD   1290103  6147    7047    7075     0.071
CONROD   1290104  6167    7067    7075     0.002
CONROD   1290112  6147    6167    7075     0.065
CONROD   1290114  7047    7067    7075     0.065
CSHEAR   1292013 0167075  7037     8537     8547     7047
CONROD   1290121  7037    8537    7075     0.028
CONROD   1290122  7047    8547    7075     0.074
CONROD   1290131  7037    7047    7075     0.116
CONROD   1290133  8537    8547    7075     0.116
CSHEAR   1292014 0167075  7047     8547     8567     7067
CONROD   1290123  7047    8547    7075     0.074
CONROD   1290124  7067    8567    7075     0.003
CONROD   1290132  7047    7067    7075     0.116
CONROD   1290134  8547    8567    7075     0.116
CSHEAR   1292015 0167075  8537     1003     9347     8547
CONROD   1290141  8537    1003    7075     0.029
CONROD   1290142  8547    9347    7075     0.077
CONROD   1290151  8537    8547    7075     0.062
CONROD   1290153  1003    9347    7075     0.062
CSHEAR   1292016 0167075  8547     9347     9367     8567
CONROD   1290143  8547    9347    7075     0.077
CONROD   1290144  8567    9367    7075     0.003
CONROD   1290152  8547    8567    7075     0.062
CONROD   1290154  9347    9367    7075     0.062
$
$                        MAIN BEAM WEB / LEFT-HAND SIDE
$                                209-030-129-199
$                          STA  83.00 TO STA 138.70
$
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$    DOUBLERS
CONROD   1290732  9367    11567    7075     0.044
CONROD   1290733 11567    13867    7075     0.044
CONROD   1291431  9347    11547    7075     0.093
CONROD   1291432 11547    13847    7075     0.093
CONROD   1291111  1003    11537    7075     0.052
CONROD   1291112 11537    1004     7075     0.052
CONROD   1290793  1003     9347    7075     0.056
CONROD   1290794  9347     9367    7075     0.056
CONROD   1290891  1004    13847    7075     0.058
CONROD   1290892 13847    13867    7075     0.058
$    INNER SKIN    209-030-129-205    .025 ALUMINUM
CSHEAR   1292056 0257075  1003     11537    11547    9347
CONROD   1290561  1003    11537    7075     0.078
CONROD   1290562  9347    11547    7075     0.134
CONROD   1290571  1003     9347    7075     0.256
CONROD   1290573 11537    11547    7075     0.256
CSHEAR   1292057 0257075  9347     11547    11567    9367
CONROD   1290563  9347    11547    7075     0.134
CONROD   1290564  9367    11567    7075     0.041
CONROD   1290572  9347     9367    7075     0.256
CONROD   1290574 11547    11567    7075     0.256
CSHEAR   1292058 0257075 11537     1004     13847    11547
CONROD   1290581 11537     1004    7075     0.076
CONROD   1290582 11547    13847    7075     0.139
CONROD   1290591 11537    11547    7075     0.249
CONROD   1290593  1004    13847    7075     0.249
CSHEAR   1292059 0257075 11547    13847    13867    11567
CONROD   1290583 11547    13847    7075     0.139
CONROD   1290584 11567    13867    7075     0.052
CONROD   1290592 11547    11567    7075     0.249
CONROD   1290594 13847    13867    7075     0.249
$    OUTER SKIN    209-030-129-185    .016 ALUMINUM
CSHEAR   1291851 0167075  1003     11537    11547    9347
CONROD   1298501  1003    11537    7075     0.028
CONROD   1298502  9347    11547    7075     0.028
CONROD   1298503  1003     9347    7075     0.159
CONROD   1298504 11537    11547    7075     0.159
CSHEAR   1291852 0167075 11537     1004     13847    11547
CONROD   1298511 11537     1004    7075     0.031
CONROD   1298512 11547    13847    7075     0.031
CONROD   1298513 11537    11547    7075     0.154
CONROD   1298514  1004    13847    7075     0.154
$    OUTER SKIN    209-030-129-137    .016 ALUMINUM
CSHEAR   1291371 0167075  9347     11547    11567    9367
CONROD   1293701  9347    11547    7075     0.012
CONROD   1293702  9367    11567    7075     0.012
CONROD   1293703  9347     9367    7075     0.159
CONROD   1293704 11547    11567    7075     0.159
CSHEAR   1291372 0167075 11547     13847    13867    11567
CONROD   1293711 11547    13847    7075     0.011
CONROD   1293712 11567    13867    7075     0.011
CONROD   1293713 11547    11567    7075     0.154
CONROD   1293714 13847    13867    7075     0.154
$
$                        MAIN BEAM WEB / LEFT-HAND SIDE
$                                209-030-129-199
$                          STA 138.70 TO STA 148.50
$
$    DOUBLERS
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CONROD  1290695 13867   14867   7075    0.097
CONROD  1290696 13848   13847   7075    0.104
CONROD  1290697 13847   14847   7075    0.104
CONROD  1291253 1004    14837   7075    0.090
CONROD  1290698 13867   13848   7075    0.090
CONROD  1291254 13847   1004    7075    0.041
CONROD  1290699 14867   14847   7075    0.081
CONROD  1291255 14847   14837   7075    0.037
$   INNER SKIN   209-030-129-141    .025 ALUMINUM
CSHEAR  1291411 0257075 13807   14807   14827   13827
CONROD  1294101 13807   14807   7075    0.057
CONROD  1294102 13827   14827   7075    0.158
CONROD  1294111 13807   13827   7075    0.120
CONROD  1294115 14807   14827   7075    0.120
CSHEAR  1291412 0257075 13827   14827   14837   1004
CONROD  1294103 13827   14827   7075    0.158
CONROD  1294104 1004    14837   7075    0.088
CONROD  1294112 13827   1004    7075    0.120
CONROD  1294116 14827   14837   7075    0.120
CTRMEM  1291413 0257075 1004    13847   13848
CSHEAR  1291414 0257075 1004    14837   14847   13847
CONROD  1294105 1004    14837   7075    0.078
CONROD  1294106 13847   14847   7075    0.143
CONROD  1294113 1004    13847   7075    0.121
CONROD  1294117 14837   14847   7075    0.121
CSHEAR  1291415 0257075 13848   13847   14867   13867
CONROD  1294107 13848   13847   7075    0.143
CONROD  1294108 13867   14867   7075    0.061
CONROD  1294114 13848   13867   7075    0.122
CONROD  1294118 13847   14867   7075    0.122
CTRMEM  1291416 0257075 13847   14847   14867
$   INTERIOR SKIN   209-030-129-069    .040 ALUMINUM
CSHEAR  1290691 0407075 13807   14807   14827   13827
CONROD  1296901 13807   14807   7075    0.159
CONROD  1296902 13827   14827   7075    0.159
CONROD  1296911 13807   13827   7075    0.191
CONROD  1296914 14807   14827   7075    0.191
CSHEAR  1290692 0407075 13827   14827   14837   1004
CONROD  1296903 13827   14827   7075    0.201
CONROD  1296904 1004    14837   7075    0.201
CONROD  1296912 13827   1004    7075    0.191
CONROD  1296915 14827   14837   7075    0.191
CTRMEM  1290693 0407075 1004    13847   13848
CSHEAR  1290694 0407075 1004    14837   14847   13847
CONROD  1296905 1004    14837   7075    0.151
CONROD  1296906 13847   14847   7075    0.151
CONROD  1296913 1004    13847   7075    0.194
CONROD  1296916 14837   14847   7075    0.194
$   OUTER SKIN   209-030-129-125    .020 ALUMINUM
CSHEAR  1291251 0207075 13807   14807   14827   13827
CONROD  1292501 13807   14807   7075    0.048
CONROD  1292502 13827   14827   7075    0.122
CONROD  1292511 13807   13827   7075    0.096
CONROD  1292513 14807   14827   7075    0.096
CSHEAR  1291252 0207075 13827   14827   14837   1004
CONROD  1292503 13827   14827   7075    0.122
CONROD  1292504 1004    14837   7075    0.033
CONROD  1292512 13827   1004    7075    0.096
CONROD  1292514 14827   14837   7075    0.096
$   OUTER SKIN   209-030-129-057    .016 ALUMINUM
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CSHEAR  1290571 0167075 1004    14837   14847   13847
CONROD  1295701 1004    14837   7075    0.014
CONROD  1295702 13847   14847   7075    0.014
CONROD  1295703 1004    13847   7075    0.056
CONROD  1295704 14837   14847   7075    0.056
$   OUTER SKIN   209-030-129-059    .025 ALUMINUM
CSHEAR  1290591 0257075 13848   13847   14867   13867
CONROD  1295921 13848   13847   7075    0.053
CONROD  1295922 13867   14867   7075    0.053
CONROD  1295923 13848   13867   7075    0.094
CONROD  1295924 13847   14867   7075    0.094
CTRMEM  1290592 0257075 13847   14847   14867
$
$                       MAIN BEAM WEB / LEFT-HAND SIDE
$                                209-030-138-005
$                          STA 148.50 TO STA 186.25
$
$   DOUBLERS
CONROD  1380291 14867   18668   7075    0.138
CONROD  1380433 14827   15627   7075    0.182
CONROD  1380311 15627   18629   7075    0.186
CONROD  1380432 14827   14837   7075    0.075
CONROD  1380491 14837   14847   7075    0.075
CONROD  1380492 14847   14867   7075    0.075
CONROD  1380191 18629   18639   7075    0.070
CONROD  1380192 18639   18649   7075    0.070
CONROD  1380193 18649   18654   7075    0.070
CONROD  1380194 18654   18659   7075    0.070
CONROD  1380195 18659   18669   7075    0.070
$   INNER SKIN   209-030-138-041    .020 GLASS FABRIC
CSHEAR  1380411 0200076 14827   15627   15637   14837
CONROD  1384101 14827   15627   0076    0.088
CONROD  1384102 14837   15637   0076    0.088
CONROD  1384103 14827   14837   0076    0.071
CONROD  1384104 15627   15637   0076    0.071
CSHEAR  1380412 0200076 15627   18629   18639   15637
CONROD  1384111 15627   18629   0076    0.088
CONROD  1384112 15637   18639   0076    0.088
CONROD  1384121 15627   15637   0076    0.298
CONROD  1384124 18629   18639   0076    0.298
CTRMEM  1380413 0200076 14837   15637   14847
CSHEAR  1380414 0200076 15637   18639   18649   14847
CONROD  1384113 15637   18639   0076    0.096
CONROD  1384114 14847   18649   0076    0.096
CONROD  1384122 15637   14847   0076    0.334
CONROD  1384125 18639   18649   0076    0.334
CSHEAR  1380415 0200076 14847   18654   18659   14867
CONROD  1384115 14847   18654   0076    0.075
CONROD  1384116 14867   18659   0076    0.075
CONROD  1384123 14847   14867   0076    0.389
CONROD  1384126 18654   18659   0076    0.389
$   INTERIOR SKIN   209-030-138-035    .016 TITANIUM
CSHEAR  1380351 0169046 14827   15627   15637   14837
CONROD  1383501 14827   15627   9046    0.031
CONROD  1383502 14837   15637   9046    0.031
CONROD  1383503 14827   14837   9046    0.086
CONROD  1383504 15627   15637   9046    0.086
$   INTERIOR SKIN   209-030-138-043    .040 TITANIUM
CSHEAR  1380431 0409046 14827   15627   15637   14837
CONROD  1384301 14827   15627   9046    0.096
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CONROD   1384302 14837   15637   9046     0.095
CONROD   1384303 14827   14837   9046     0.183
CONROD   1384304 15827   15637   9046     0.183
$    OUTER SKIN    209-030-138-045     .012 TITANIUM
CSHEAR   1380451 0129046 14827   15627   15637    14837
CONROD   1384501 14827   15627   9046     0.053
CONROD   1384502 14837   15637   9046     0.053
CONROD   1384503 14827   14837   9046     0.042
CONROD   1384504 15627   15637   9046     0.042
CSHEAR   1380452 0129046 15627   18629   18639    15637
CONROD   1384511 15627   18629   9046     0.053
CONROD   1384512 15637   18639   9046     0.053
CONROD   1384521 15627   15637   9046     0.179
CONROD   1384524 18629   18639   9046     0.179
CTRMEM   1380453 0129046 14837   15637   14847
CSHEAR   1380454 0129046 15637   18638   18649    14847
CONROD   1384513 15637   18639   9046     0.058
CONROD   1384514 14847   18649   9046     0.058
CONROD   1384522 15637   14847   9046     0.200
CONROD   1384525 18639   18649   9046     0.200
CSHEAR   1380455 0129046 14847   18654   18659    14867
CONROD   1384515 14847   18654   9046     0.045
CONROD   1384516 14867   18659   9046     0.045
CONROD   1384523 14847   14867   9046     0.221
CONROD   1384526 18654   18659   9046     0.221
$
$                          MAIN BEAM WEB / LEFT-HAND SIDE
$                                 209-030-137-031
$                             STA 186.28 TO STA 213.94
$
$    DOUBLERS
CONROD   1370355 19769   21369   7075     0.064
CONROD   1370354 19749   21349   7075     0.158
CONROD   1370356 19749   19759   7075     0.156
CONROD   1370357 19759   19769   7075     0.156
CONROD   1370358 21349   21369   7075     0.089
$    INNER SKIN    209-030-137-023     .012 ALUMINUM
CSHEAR   1370231 0127075 19749   21349   21369    19759
CONROD   1372301 19749   21349   7075     0.016
CONROD   1372302 19759   21369   7075     0.016
CONROD   1372303 19749   19759   7075     0.076
CONROD   1372304 21349   21369   7075     0.076
CTRMEM   1370232 0127075 19759   21369   19769
$    INNER SKIN    209-030-137-035     .040 ALUMINUM
CTRMEM   1370351 0407075 18649   19749   18854
CSHEAR   1370352 0407075 18654   19749   19759    18659
CONROD   1373501 18654   19749   7075     0.139
CONROD   1373502 18659   19759   7075     0.117
CONROD   1373511 18854   18659   7075     0.213
CONROD   1373513 19748   19759   7075     0.213
CSHEAR   1370353 0407075 18659   19759   19769    18669
CONROD   1373503 18659   19759   7075     0.117
CONROD   1373504 18669   19769   7075     0.001
CONROD   1373512 18659   18669   7075     0.213
CONROD   1373514 19759   19769   7075     0.213
$    OUTER SKIN    209-030-137-005     .040 ALUMINUM
CTRMEM   1370051 0407075 18649   19749   18654
CSHEAR   1370052 0407075 18654   19749   19759    18659
CONROD   1370501 18654   19749   7075     0.143
CONROD   1370502 18659   19759   7075     0.095
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CONROD   1370511 18654   18659   7075     0.213
CONROD   1370513 19749   19759   7075     0.213
CSHEAR   1370053 0407075 18659   19759   19769    18669
CONROD   1370503 18659   19759   7075     0.095
CONROD   1370504 18669   19769   7075     0.109
CONROD   1370512 18659   18669   7075     0.213
CONROD   1370514 19759   19769   7075     0.213
CSHEAR   1370054 0407075 19749   21349   21369    19759
CONROD   1370521 19749   21349   7075     0.143
CONROD   1370522 19759   21389   7075     0.143
CONROD   1370523 19749   19759   7075     0.341
CONROD   1370524 21349   21369   7075     0.341
CTRMEM   1370055 0407075 19759   21389   19769
$
$                          MAIN BEAM WEB / LEFT-HAND SIDE
$                                 209-030-180-017
$                             STA 186.28 TO STA 213.94
$
CONROD   1800171 18629   21349   2024     0.491
$
$                          MAIN BEAM WEB / LEFT-HAND SIDE
$                                 209-030-119-001
$                             STA 213.94 TO STA 250.00
$
$    DOUBLERS
CONROD   1190211 21369   25069   7075     0.229
CONROD   1190171 21329   21829   7075     0.284
CONROD   1190172 21829   22729   7075     0.300
CONROD   1190173 22729   25029   7075     0.353
CONROD   1190231 21329   21349   7075     0.178
CONROD   1190232 21349   21369   7075     0.178
CONROD   1190191 25029   25049   7075     0.167
CONROD   1190192 25049   25069   7075     0.167
$    INNER SKIN    209-030-119-009     .020 GLASS FABRIC
CTRMEM   1190091 0200076 21329   21829   21349
CTRMEM   1190092 0200076 21829   22729   21349
CSHEAR   1190093 0200076 22729   25029   25049    21349
CONROD   1190901 22729   25029   0076     0.131
CONROD   1190902 21349   25049   0076     0.203
CONROD   1190911 22728   21349   0076     0.292
CONROD   1190913 25029   25049   0076     0.292
CSHEAR   1190094 0200076 21349   25049   25069    21369
CONROD   1190903 21349   25049   0076     0.203
CONROD   1190904 21369   25069   0076     0.034
CONROD   1190912 21349   21369   0076     0.361
CONROD   1190914 25049   25069   0076     0.361
$    INTERIOR SKIN    209-030-119-013     .032 TITANIUM
CTRMEM   1180131 0328046 21329   21829   21349
CTRMEM   1180132 0328046 21829   22729   21349
$    OUTER SKIN    209-030-119-005     .016 TITANIUM
CTRMEM   1180051 0188046 21329   21829   21349
CTRMEM   1180052 0188046 21829   22729   21349
CSHEAR   1180053 0188046 22729   25029   25049    21349
CONROD   1180501 22729   25029   9046     0.105
CONROD   1180502 21349   25049   9046     0.162
CONROD   1180511 22729   21349   9046     0.234
CONROD   1180513 25029   25049   9046     0.234
CSHEAR   1180054 0188046 21349   25049   25069    21389
CONROD   1180503 21349   25049   9046     0.162
CONROD   1180504 21389   25089   9046     0.027
```

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CONROD   1190512 21349   21369   9046     0.288
CONROD   1190514 25049   25069   9046     0.288
$
$                          MAIN BEAM WEB / LEFT-HAND SIDE
$                                209-030-117-047
$                             STA 250.00 TO BS  41.32
$
$    DOUBLERS
CONROD   1170191 1008    1009    7075     0.069
CONROD   1170211 26829   29929   7075     0.068
CONROD   1170511 26829   26849   7075     0.043
CONROD   1170512 26849   1008    7075     0.043
CONROD   1170231 29929   29949   7075     0.053
CONROD   1170232 29949   1009    7075     0.053
$    INNER SKIN   209-030-117-011    .016 ALUMINUM
CSHEAR   1170111 0167075 25029   26829   26849    25049
CONROD   1171101 25029   26829   7075     0.066
CONROD   1171102 25049   26849   7075     0.148
CONROD   1171111 25029   25049   7075     0.118
CONROD   1171113 26829   26849   7075     0.118
CSHEAR   1170112 0167075 25049   26849   1008     25069
CONROD   1171103 25049   26849   7075     0.148
CONROD   1171104 25069   1008    7075     0.020
CONROD   1171112 25049   25069   7075     0.118
CONROD   1171114 26849   1008    7075     0.118
$    INNER SKIN   209-030-117-039     008 ALUMINUM
CSHEAR   1170391 0082024 26829   29929   29949    26849
CONROD   1173901 26829   29929   2024     0.023
CONROD   1173902 26849   29949   2024     0.069
CONROD   1173911 26829   26849   2024     0.116
CONROD   1173913 29929   29949   2024     0.116
CSHEAR   1170392 0082024 26849   29949   1009     1008
CONROD   1173903 26849   29949   2024     0.069
CONROD   1173904 1008    1009    2024     0.014
CONROD   1173912 26849   1008    2024     0.116
CONROD   1173914 29949   1009    2024     0.116
$    INTERIOR SKIN   209-030-117-051    .040 ALUMINUM
CSHEAR   1170511 0407075 25029   26829   26849    25049
CONROD   1175101 25029   26829   7075     0.235
CONROD   1175102 25049   26849   7075     0.381
CONROD   1175111 25029   25049   7075     0.365
CONROD   1175113 26829   26849   7075     0.365
CSHEAR   1170512 0407075 25049   26849   1008     25069
CONROD   1175103 25049   26849   7075     0.381
CONROD   1175104 25069   1008    7075     0.118
CONROD   1175112 25049   25069   7075     0.365
CONROD   1175114 26849   1008    7075     0.365
$    OUTER SKIN   209-030-117-005    .016 ALUMINUM
CSHEAR   1170051 0167075 25029   26829   26849    25049
CONROD   1170501 25029   26829   7075     0.094
CONROD   1170502 25049   26849   7075     0.152
CONROD   1170513 25029   25049   7075     0.146
CONROD   1170515 26829   26849   7075     0.146
CSHEAR   1170052 0167075 25049   26849   1008     25069
CONROD   1170503 25049   26849   7075     0.152
CONROD   1170504 25069   1008    7075     0.047
CONROD   1170514 25049   25069   7075     0.146
CONROD   1170516 26849   1008    7075     0.146
CSHEAR   1170053 0167075 26829   29929   29949    26849
CONROD   1170521 26829   29929   7075     0.081
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CONROD   1170522 26849   29949   7075     0.146
CONROD   1170531 26829   26849   7075     0.250
CONROD   1170533 29929   29949   7075     0.250
CSHEAR   1170054 0167075 26849   29949   1009     1008
CONROD   1170523 26849   29949   7075     0.146
CONROD   1170524 1008    1009    7075     0.062
CONROD   1170532 26849   1008    7075     0.250
CONROD   1170534 29949   1009    7075     0.250
$
$                        SIDE PANELS AND FRAMES / LEFT SIDE
$                             STA  61.25 TO STA 186.25
$
$
$                                  CANOPY FRAME
$                                209-030-500-309
$
CONROD   5003091  6169    7079    7075     0.191
CONROD   5003092  7079    8579    7075     0.182
CONROD   5003093  8579    9379    7075     0.193
CONROD   5003094  9379    11579   7075     0.206
CONROD   5003095 11579   13879   7075     0.208
CONROD   5003096 13879   14889   7075     0.205
$
$                                     SKIN
$                                209-030-179-163
$
CTRMEM   1791631 0322024  6169    7079     7069
CSHEAR   1791632 0322024  7069    7079     8579     8569
CONROD   1796301  7069    8569    2024     0.040
CONROD   1796302  7079    8579    2024     0.040
CONROD   1796303  7069    7079    2024     0.232
CONROD   1796304  8569    8579    2024     0.232
CSHEAR   1791633 0322024  8569    8579     9379     9369
CONROD   1796311  8569    9369    2024     0.072
CONROD   1796312  8579    9379    2024     0.072
CONROD   1796313  8569    8579    2024     0.202
CONROD   1796314  9369    9379    2024     0.202
CSHEAR   1791634 0322024  9368    9379    11579    11569
CONROD   1796321  9369    11569   2024     0.102
CONROD   1796322  9379    11579   2024     0.102
CONROD   1796323  9369    9379    2024     0.270
CONROD   1796324 11569   11579   2024     0.270
CSHEAR   1791635 0322024 11569   11579    13879    13869
CONROD   1796331 11569   13869   2024     0.130
CONROD   1796332 11579   13879   2024     0.130
CONROD   1796333 11569   11579   2024     0.248
CONROD   1796334 13869   13879   2024     0.248
CSHEAR   1791636 0322024 13869   13879    14889    14889
CONROD   1796341 13869   14869   2024     0.183
CONROD   1796342 13879   14889   2024     0.183
CONROD   1796343 13869   13879   2024     0.321
CONROD   1796344 14869   14889   2024     0.321
$
$                                    PANEL
$                                209-030-125-141
$
$    DOUBLERS
CONROD   1250971 14869   18889   2024     0.084
CONROD   1250131 14889   1005    2024     0.064
CONROD   1250132 1005    18689   2024     0.064
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CONROD   1250171 14869    14889    2024     0.070
CONROD   1250151 18589    18689    2024     0.070
$    INNER SKIN    209-030-125-023     .008 ALUMINUM
CTRMEM   1250231 0082024 14869    14889    1005
CSHEAR   1250232 0082024 14869    1005     18689    18669
CONROD   1252301 14869    18669    2024     0.035
CONROD   1252302 1005     18689    2024     0.035
CONROD   1252303 14869    1005     2024     0.120
CONROD   1252304 18689    18689    2024     0.120
$    OUTER SKIN    209-030-125-091     .016 ALUMINUM
CTRMEM   1250911 0162024 14869    14889    1005
CSHEAR   1250912 0162024 14869    1005     18689    18669
CONROD   1259101 14869    18569    2024     0.098
CONROD   1259102 1005     18689    2024     0.098
CONROD   1259103 14869    1005     2024     0.240
CONROD   1259104 18569    18689    2024     0.240
$
$                                  FRAME
$                              209-030-125-077
$
CONROD   1250771 14889    1005     2024     0.115
CONROD   1250772 1005     18689    2024     0.115
$
$
$
$                                 ELEVATOR
$                              209-020-800
$
CBAR     4014345 4014345 40143    1011     0.0      0.0      1.0      1          ELEV R
+ELEV R  56
PBAR     4014345 2024     2.3140   1.3529   1.3529   2.7058
CBAR     4014547 4014547 1011     40147    0.0      0.0      1.0      1          ELEV L
+ELEV L      56
PBAR     4014547 2024     2.3140   1.3529   1.3529   2.7058
CBAR     4014142 4014142 1012     40142    0.0      0.0      1.0      1
PBAR     4014142 2024     0.9471   0.4507   0.4507   0.9014
CBAR     4014243 4014243 40142    40143    0.0      0.0      1.0      1
PBAR     4014243 2024     1.6745   0.8938   0.8938   1.7875
CBAR     4014347 4014347 40143    40147    0.0      0.0      1.0      1
PBAR     4014347 2024     2.3140   1.3529   1.3529   2.7058
CBAR     4014748 4014748 40147    40148    0.0      0.0      1.0      1
PBAR     4014748 2024     1.6745   0.8938   0.8938   1.7875
CBAR     4014849 4014849 40148    1013     0.0      0.0      1.0      1
PBAR     4014849 2024     0.9471   0.4507   0.4507   0.9014
$
$                    MAIN ROTOR PYLON SUPPORT STRUCTURE
$
$
$                           PYLON BEAM - RIGHT SIDE
$                              209-030-121-061
$                         STA 186.25 TO STA 213.94
$
CBAR     1210611 1210611 18683    18983    0.0      0.0      1.0      1
PBAR     1210611 7075     0.643   0.3418   2.0812   0.0
CBAR     1210612 1210612 18983    21183    0.0      0.0      1.0      1
PBAR     1210612 7075     0.643   0.3418   2.0812   0.0
CBAR     1210613 1210613 21183    21383    0.0      0.0      1.0      1
PBAR     1210613 7075     0.643   0.3418   2.0812   0.0
$
$                           FWD PYLON POST - RIGHT SIDE
```

```
$
CBAR     1070321 1070321 18663    18883    1.0      0.0      0.0      1
PBAR     1070321 7075     2.100   13.035   6.442    0.0
MPC      1000    18683    6        1.0     18687    1        -.040404           RFPOST6
+RFPOST6         18683    1         .040404
$
$                           AFT PYLON POST - RIGHT SIDE
$
CBAR     1210101 1210101 21363    21383    1.0      0.0      0.0      1
PBAR     1210101 7075     1.643   5.770    5.205    0.0
$
$                         AFT PYLON POST LEG - RIGHT SIDE
$
CONROD   1210102 21343    21363    7075     0.473
$
$                              DIAGONAL - RIGHT SIDE
$
CONROD   1210591 21345    21364    7075     0.137
CONROD   1210592 21364    21383    7075     0.137
$
$                                WEB - RIGHT SIDE
$
CTRMEM   1210590 0507075 21363    21364    21383
$
$                         MAIN BEAM CAP AXIALS - RIGHT SIDE
$
CONROD   1210321 18661    19761    7075     0.241
CONROD   1210322 19761    21361    7075     0.241
$
$                           PYLON BEAM - LEFT SIDE
$                              209-030-121-021
$                         STA 186.25 TO STA 213.94
$
CBAR     1210211 1210211 18687    18987    0.0      0.0      1.0      1
PBAR     1210211 7075     0.643   0.3418   2.0812   0.0
CBAR     1210212 1210212 18987    21187    0.0      0.0      1.0      1
PBAR     1210212 7075     0.643   0.3418   2.0812   0.0
CBAR     1210213 1210213 21187    21387    0.0      0.0      1.0      1
PBAR     1210213 7075     0.643   0.3418   2.0812   0.0
$
$                           FWD PYLON POST - LEFT SIDE
$
CBAR     1070311 1070311 18667    18887    1.0      0.0      0.0      1
PBAR     1070311 7075     2.100   13.035   6.442    0.0
MPC      1000    18687    6        1.0     18683    6        -1.0               LFPOST6
$
$                           AFT PYLON POST - LEFT SIDE
$
CBAR     1210091 1210091 21367    21387    1.0      0.0      0.0      1
PBAR     1210091 7075     1.643   5.770    5.205    0.0
$
$                         AFT PYLON POST LEG - LEFT SIDE
$
CONROD   1210092 21347    21387    7075     0.707
$
$                              DIAGONAL - LEFT SIDE
$
CONROD   1210471 21345    21386    7075     0.137
CONROD   1210472 21386    21387    7075     0.137
$
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$                                WEB - LEFT SIDE
$
CTRMEM   1210470 0507075 21366   21367   21387
$
$                          MAIN BEAM CAP AXIALS - LEFT SIDE
$
CONROD   1210311 18669   19769   7075    0.241
CONROD   1210312 19769   21369   7075    0.241
$
$                             AFT PYLON MOUNT CROSS BEAM
$                                  209-031-344-001
$
CBAR     3440011 3440011 21383   21485   0.0     0.0     1.0     1       3440011
+3440011                 0.56    0.0     -2.96   0.0     0.0     -2.96
PBAR     3440011 2014    1.405   2.216   0.0     0.0
CBAR     3440012 3440012 21485   21387   0.0     0.0     1.0     1       3440012
+3440012                 0.0     0.0     -2.96   0.56    0.0     -2.96
PBAR     3440012 2014    1.405   2.216   0.0     0.0
$
$                       SUPPORT BEAMS FOR CONTROL BOOST CYLINDERS
$                                  209-001-302
$
$
CBAR     3020011 302001  18673   19173   0.0     0.0     1.0     1
CBAR     3020012 302001  19173   19773   0.0     0.0     1.0     1
CBAR     3020015 302001  18677   19177   0.0     0.0     1.0     1
CBAR     3020016 302001  19177   19777   0.0     0.0     1.0     1
CBAR     3020017 302001  19777   20977   0.0     0.0     1.0     1
CBAR     3020018 302001  20977   21377   0.0     0.0     1.0     1
PBAR     302001  7075    1.83    1.30    8.34    9.64
$
RBE2     3020021 18673   13      18663   18664
RBE2     3020022 18677   13      18666   18667
RBE2     3020023 19773   13      19762   19763
RBE2     3020024 19777   13      1006    19768
RBE2     3020026 21377   13      21366   21367
RBE2     3020031 18673   2       18663
RBE2     3020032 18677   2       18667
RBE2     3020033 19773   2       19762
RBE2     3020034 19777   2       19768
RBE2     3020036 21377   2       21367
RBE2       7505  1002    123     7033    7037    8533    8537
RBE2      15212 15212    123     14803   14823   15603   15623
RBE2      15218 15218    123     14807   14827   15607   15627
$BE2      30045 30045    123     29921   29929   29961   1009
RBE2     124800 1029     123     123487  125383  125387
$
$                             AMMUNITION FLOOR - WL 27.00
$                                  209-030-219-005
$                               STA  93.00 TO STA 138.70
$
$    DOUBLERS
CONROD   2190311  9313   11503   2024    0.196
CONROD   2190312 11503   13803   2024    0.196
CONROD   2190313  9317   11507   2024    0.196
CONROD   2190314 11507   13807   2024    0.196
CONROD   2190271  9313    9317   2024    0.046
CONROD   2190431 13803   13807   2024    0.047
$    LOWER SKIN    209-030-219-015     020 ALUMINUM
CSHEAR   2190151 0202024  9313   11503   11507    9317
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CONROD   2191503  9313   11503   2024    0.186
CONROD   2191504  9317   11507   2024    0.186
CONROD   2191501  9313    9317   2024    0.233
CONROD   2191502 11503   11507   2024    0.233
CSHEAR   2190152 0202024 11503   13803   13807   11507
CONROD   2191507 11503   13803   2024    0.186
CONROD   2191508 11507   13807   2024    0.186
CONROD   2191505 11503   11507   2024    0.238
CONROD   2191506 13803   13807   2024    0.238
$    UPPER SKIN    209-030-219-019     025 ALUMINUM
CSHEAR   2190191 0252024  9313   11503   11507    9317
CONROD   2191903  9313   11503   2024    0.044
CONROD   2191904  9317   11507   2024    0.044
CONROD   2191901  9313    9317   2024    0.272
CONROD   2191902 11503   11507   2024    0.272
CSHEAR   2190182 0252024 11503   13803   13807   11507
CONROD   2191907 11503   13803   2024    0.044
CONROD   2191908 11507   13807   2024    0.044
CONROD   2191905 11503   11507   2024    0.279
CONROD   2191906 13803   13807   2024    0.279
$
$                          FORWARD FUEL CELL FLOOR - WL 35.97
$                                  209-030-212-001
$                               STA 138.70 TO STA 148.50
$                                  209-030-204-063
$                               STA 146.50 TO STA 186.25
$
$    DOUBLERS
CONROD   2044711 14821   15621   7075    0.019
CONROD   2044712 14823   15623   7075    0.205
CONROD   2044713 14827   15627   7075    0.205
CONROD   2044714 14829   15629   7075    0.019
CONROD   2044715 14823   14827   7075    0.176
CONROD   2044716 15621   15623   7075    0.296
CONROD   2044717 15623   15625   7075    0.294
CONROD   2044718 15625   15627   7075    0.294
CONROD   2044719 15627   15629   7075    0.296
CONROD   2044720 15621   18621   7075    0.050
CONROD   2044721 15623   18621   7075    0.185
CONROD   2044722 15627   18629   7075    0.195
CONROD   2044723 15629   18629   7075    0.050
CONROD   2044724 18621   18623   7075    0.180
CONROD   2044725 18623   18625   7075    0.180
CONROD   2044726 18625   18627   7075    0.180
CONROD   2044727 18627   18629   7075    0.180
$    LOWER SKIN    209-030-212-001     .040 ALUMINUM
CSHEAR   2120011 0407075 13823   14823   14827   13827
CONROD   2120101 13823   14823   2024    0.133
CONROD   2120102 13827   14827   2024    0.133
CONROD   2120103 13823   13827   2024    0.392
CONROD   2120104 14823   14827   2024    0.392
$    LOWER SKIN    209-030-204-081     .016 TITANIUM
CSHEAR   2040811 0169048 14821   15621   15623   14823
CONROD   2048101 14621   15621   9046    0.050
CONROD   2048102 14823   15623   9046    0.050
CONROD   2048105 14821   14823   9046    0.062
CONROD   2048107 15621   15823   9046    0.062
CTRMEM   2040812 0169048 14823   15623   15625
CTRMEM   2040813 0169048 14823   15625   14827
CTRMEM   2040814 0169048 14827   15625   15827
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CSHEAR  2040815 0169046 14827   15627   15629   14829
CONROD  2048103 14827   15627   9046    0.050
CONROD  2048104 14829   15629   9046    0.050
CONROD  2048106 14827   14829   9046    0.062
CONROD  2048108 15627   15629   9046    0.062
CTRMEM  2040821 0169046 15621   18621   15623
CTRMEM  2040822 0169046 15623   18621   18623
CSHEAR  2040823 0169046 15623   18623   18625   15625
CONROD  2048201 15623   18623   9046    0.057
CONROD  2048202 15625   18625   9046    0.115
CONROD  2048205 15623   15625   9046    0.238
CONROD  2048207 18623   18625   9046    0.238
CSHEAR  2040824 0169046 15625   18625   18627   15627
CONROD  2048203 15625   18625   9046    0.115
CONROD  2048204 15627   18627   9046    0.057
CONROD  2048206 15625   15627   9046    0.238
CONROD  2048208 18625   18627   9046    0.238
CTRMEM  2040825 0169046 15627   18627   18629
CTRMEM  2040826 0169046 15627   18629   15629
$   INTERIOR SKIN   209-030-204-047    .050 TITANIUM
CSHEAR  2040471 0509046 14821   15821   15623   14823
CONROD  2044701 14821   15621   9046    0.152
CONROD  2044702 14823   15623   9046    0.152
CONROD  2044705 14821   14823   9046    0.195
CONROD  2044707 15621   15623   9046    0.195
CSHEAR  2040472 0509046 14827   15627   15629   14829
CONROD  2044703 14827   15627   9046    0.152
CONROD  2044704 14829   15629   9046    0.152
CONROD  2044706 14827   14829   9046    0.195
CONROD  2044708 15627   15629   9046    0.195
$   UPPER SKIN    209-030-204-079    .020 GLASS FABRIC
CTRMEM  2040791 0200076 14823   15623   15625
CTRMEM  2040792 0200076 14823   15625   14827
CTRMEM  2040793 0200076 14827   15625   15627
CTRMEM  2040794 0200076 15623   18621   18623
CSHEAR  2040795 0200076 15623   18623   18625   15625
CONROD  2047901 15623   18623   0076    0.072
CONROD  2047902 15625   18625   0076    0.144
CONROD  2047905 15623   15625   0076    0.298
CONROD  2047907 18623   18625   0076    0.298
CSHEAR  2040796 0200076 15625   18625   18627   15627
CONROD  2047903 15625   18625   0076    0.144
CONROD  2047904 15627   18627   0076    0.072
CONROD  2047906 15625   15627   0076    0.298
CONROD  2047908 18625   18627   0076    0.298
CTRMEM  2040797 0200076 15627   18627   18629
$
$                           PYLON FLOOR - WL 35.97
$                               209-030-205-059
$                         STA 186.25 TO STA 213.94
$
$   DOUBLERS
CONROD  2050431 18621   21321   7075    0.024
CONROD  2050651 18627   21327   7075    0.193
CONROD  2050652 18629   21329   7075    0.053
CONROD  2050432 18621   18623   7075    0.040
CONROD  2050433 18623   18625   7075    0.040
CONROD  2050434 18625   18627   7075    0.040
CONROD  2050435 18627   18629   7075    0.040
CONROD  2050436 21321   21323   7075    0.104
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CONROD  2050437 21323   21325   7075    0.104
CONROD  2050438 21325   21327   7075    0.104
CONROD  2050439 21327   21329   7075    0.104
$   LOWER SKIN   209-030-205-055    .016 ALUMINUM
CSHEAR  2050551 0167075 18621   21321   21323   18623
CONROD  2055501 18621   21321   7075    0.018
CONROD  2055502 18623   21323   7075    0.094
CONROD  2055511 18621   18623   7075    0.221
CONROD  2055515 21321   21323   7075    0.221
CSHEAR  2050552 0167075 18623   21323   21325   18625
CONROD  2055503 18623   21323   7075    0.094
CONROD  2055504 18625   21325   7075    0.059
CONROD  2055512 18623   18625   7075    0.221
CONROD  2055516 21323   21325   7075    0.221
CSHEAR  2050553 0167075 18625   21325   21327   18627
CONROD  2055505 18625   21325   7075    0.059
CONROD  2055506 18627   21327   7075    0.094
CONROD  2055513 18625   18627   7075    0.221
CONROD  2055517 21325   21327   7075    0.221
CSHEAR  2050554 0167075 18627   21327   21329   18629
CONROD  2055507 18627   21327   7075    0.094
CONROD  2055508 18629   21329   7075    0.018
CONROD  2055514 18627   18629   7075    0.221
CONROD  2055518 21327   21329   7075    0.221
$   UPPER SKIN   209-030-205-063    .012 ALUMINUM
CSHEAR  2050631 0127075 18621   21321   21323   18623
CONROD  2056301 18621   21321   7075    0.004
CONROD  2056302 18623   21323   7075    0.069
CONROD  2056311 18621   18623   7075    0.145
CONROD  2056315 21321   21323   7075    0.145
CSHEAR  2050632 0127075 18623   21323   21325   18625
CONROD  2056303 18623   21323   7075    0.069
CONROD  2056304 18625   21325   7075    0.045
CONROD  2056312 18623   18625   7075    0.145
CONROD  2056316 21323   21325   7075    0.145
CSHEAR  2050633 0127075 18625   21325   21327   18627
CONROD  2056305 18625   21325   7075    0.045
CONROD  2056306 18627   21327   7075    0.069
CONROD  2056313 18625   18627   7075    0.145
CONROD  2056317 21325   21327   7075    0.145
CSHEAR  2050634 0127075 18627   21327   21329   18629
CONROD  2056307 18627   21327   7075    0.069
CONROD  2056308 18629   21329   7075    0.005
CONROD  2056314 18627   18629   7075    0.145
CONROD  2056318 21327   21329   7075    0.145
$
$                           AFT FUEL CELL FLOOR - WL 35.97
$                               209-030-206-063
$                         STA 213.94 TO STA 250.00
$
$   DOUBLERS
CONROD  2060850 21321   21821   7075    0.180
CONROD  2060851 21329   21829   7075    0.180
CONROD  2060852 21321   21323   7075    0.205
CONROD  2060853 21323   21325   7075    0.205
CONROD  2060854 21325   21327   7075    0.205
CONROD  2060855 21327   21329   7075    0.205
CONROD  2060856 21821   21823   7075    0.242
CONROD  2060857 21823   21825   7075    0.242
CONROD  2060858 21825   21827   7075    0.242
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CONROD  2060859 21827   21829   7075    0.242
CONROD  2060501 21821   22721   7075    0.174
CONROD  2060271 21829   22729   7075    0.174
CONROD  2060231 22721   22723   7075    0.145
CONROD  2060232 22723   22725   7075    0.145
CONROD  2060233 22725   22727   7075    0.145
CONROD  2060234 22727   22729   7075    0.145
CONROD  2060211 22721   25021   7075    0.084
CONROD  2060191 22729   25029   7075    0.084
CONROD  2060391 25021   25025   7075    0.111
CONROD  2060392 25025   25029   7075    0.111
$    LOWER SKIN    209-030-206-087     .016 TITANIUM
CSHEAR  2060871 0169046 21321   21821   21823   21323
CONROD  2068701 21321   21821   9046    0.017
CONROD  2068702 21323   21823   9046    0.093
CONROD  2068711 21321   21323   9046    0.040
CONROD  2068715 21821   21823   9046    0.040
CSHEAR  2060872 0169046 21323   21823   21825   21325
CONROD  2068703 21323   21823   9046    0.093
CONROD  2068704 21325   21825   9046    0.059
CONROD  2068712 21323   21325   9046    0.040
CONROD  2068716 21823   21825   9046    0.040
CSHEAR  2060873 0169046 21325   21825   21827   21327
CONROD  2068705 21325   21825   9046    0.059
CONROD  2068706 21327   21827   9046    0.093
CONROD  2068713 21325   21327   9046    0.040
CONROD  2068717 21825   21827   9046    0.040
CSHEAR  2060874 0169046 21327   21827   21829   21329
CONROD  2068707 21327   21827   9046    0.093
CONROD  2068708 21329   21829   9046    0.017
CONROD  2068714 21327   21329   9046    0.040
CONROD  2068718 21827   21829   9046    0.040
CSHEAR  2060875 0169046 21821   22721   22723   21823
CONROD  2068721 21821   22721   9046    0.014
CONROD  2068722 21823   22723   9046    0.092
CONROD  2068731 21821   21823   9046    0.069
CONROD  2068735 22721   22723   9046    0.069
CSHEAR  2060876 0169046 21823   22723   22725   21825
CONROD  2068723 21823   22723   9046    0.092
CONROD  2068724 21825   22725   9046    0.059
CONROD  2068732 21823   21825   9046    0.069
CONROD  2068736 22723   22725   9046    0.069
CSHEAR  2060877 0169046 21825   22725   22727   21827
CONROD  2068725 21825   22725   9046    0.059
CONROD  2068726 21827   22727   9046    0.092
CONROD  2068733 21825   21827   9046    0.069
CONROD  2068737 22725   22727   9046    0.069
CSHEAR  2060878 0169046 21827   22727   22729   21829
CONROD  2068727 21827   22727   9046    0.092
CONROD  2068728 21829   22729   9046    0.014
CONROD  2068734 21827   21829   9046    0.069
CONROD  2068738 22727   22729   9046    0.069
CTRMEM  2060881 0169046 22721   25021   22723
CSHEAR  2060882 0169046 22723   25021   25025   22725
CONROD  2068801 22723   25021   9046    0.065
CONROD  2068802 22725   25025   9046    0.136
CONROD  2068811 22723   22725   9046    0.179
CONROD  2068813 25021   25025   9046    0.179
CSHEAR  2060883 0169046 22725   25025   25029   22727
CONROD  2068803 22725   25025   9046    0.136
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CONROD  2068804 22727   25029   9046    0.065
CONROD  2068812 22725   22727   9046    0.179
CONROD  2068814 25025   25029   9046    0.179
CTRMEM  2060884 0168046 22727   25029   22729
$    UPPER SKIN    209-030-206-091     .010 GLASS FABRIC
CSHEAR  2060911 0100076 21321   21821   21823   21323
CONROD  2069101 21321   21821   0076    0.011
CONROD  2069102 21323   21823   0076    0.058
CONROD  2069111 21321   21323   0076    0.025
CONROD  2069115 21821   21823   0076    0.025
CSHEAR  2060912 0100076 21323   21823   21825   21325
CONROD  2069103 21323   21823   0076    0.058
CONROD  2069104 21325   21825   0076    0.037
CONROD  2069112 21323   21325   0076    0.025
CONROD  2069116 21823   21825   0076    0.025
CSHEAR  2060913 0100076 21325   21825   21827   21327
CONROD  2069105 21325   21825   0076    0.037
CONROD  2069106 21327   21827   0076    0.058
CONROD  2069113 21325   21327   0076    0.025
CONROD  2069117 21825   21827   0076    0.025
CSHEAR  2060914 0100076 21327   21827   21829   21329
CONROD  2069107 21327   21827   0076    0.058
CONROD  2069108 21329   21829   0076    0.011
CONROD  2069114 21327   21329   0076    0.025
CONROD  2069118 21827   21829   0076    0.025
$    UPPER SKIN    209-030-206-089     .020 GLASS FABRIC
CSHEAR  2060891 0200076 21321   21821   21823   21323
CONROD  2068901 21321   21821   0076    0.021
CONROD  2068902 21323   21823   0076    0.116
CONROD  2068911 21321   21323   0076    0.050
CONROD  2068915 21821   21823   0076    0.050
CSHEAR  2060892 0200076 21323   21823   21825   21325
CONROD  2068903 21323   21823   0076    0.116
CONROD  2068904 21325   21825   0076    0.074
CONROD  2068912 21323   21325   0076    0.050
CONROD  2068916 21823   21825   0076    0.050
CSHEAR  2060893 0200076 21325   21825   21827   21327
CONROD  2068905 21325   21825   0076    0.074
CONROD  2068906 21327   21827   0076    0.116
CONROD  2068913 21325   21327   0076    0.050
CONROD  2068917 21825   21827   0076    0.050
CSHEAR  2060894 0200076 21327   21827   21829   21329
CONROD  2068907 21327   21827   0076    0.116
CONROD  2068908 21329   21829   0076    0.021
CONROD  2068914 21327   21329   0076    0.050
CONROD  2068918 21827   21829   0076    0.050
CSHEAR  2060895 0200076 21821   22721   22723   21823
CONROD  2068921 21821   22721   0076    0.018
CONROD  2068922 21823   22723   0076    0.115
CONROD  2068931 21821   21823   0076    0.087
CONROD  2068935 22721   22723   0076    0.087
CSHEAR  2060896 0200076 21823   22723   22725   21825
CONROD  2068923 21823   22723   0076    0.115
CONROD  2068924 21825   22725   0076    0.074
CONROD  2068932 21823   21825   0076    0.087
CONROD  2068936 22723   22725   0076    0.087
CSHEAR  2060897 0200076 21825   22725   22727   21827
CONROD  2068925 21825   22726   0076    0.074
CONROD  2068926 21827   22727   0076    0.116
CONROD  2068933 21825   21827   0076    0.087
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CONROD  2068937 22725   22727   0076    0.087
CSHEAR  2060898 0200076 21827   22727   22729   21829
CONROD  2068927 21827   22727   0076    0.115
CONROD  2068928 21829   22729   0076    0.018
CONROD  2068934 21827   21829   0076    0.087
CONROD  2068938 22727   22729   0076    0.087
CTRMEM  2060901 0200076 22721   25021   22723
CSHEAR  2060902 0200076 22723   25021   25025   22725
CONROD  2069001 22723   26021   0076    0.081
CONROD  2069002 22725   25025   0076    0.170
CONROD  2069011 22723   22725   0076    0.224
CONROD  2069013 25021   25025   0076    0.224
CSHEAR  2060903 0200076 22725   25025   25029   22727
CONROD  2069003 22725   25025   0076    0.170
CONROD  2069004 22727   25029   0076    0.081
CONROD  2069012 22725   22727   0076    0.224
CONROD  2069014 25025   25029   0076    0.224
CTRMEM  2060904 0200076 22727   25029   22729
$
$                           FLOOR PANEL - WL 35.97
$                                209-030-207-077
$                          STA 250.00 TO STA 268.25
$
$   DOUBLERS
CONROD  2070091 25021   26821   2024    0.025
CONROD  2070511 25029   26829   2024    0.068
CONROD  2070231 25021   25025   2024    0.044
CONROD  2070232 25025   25029   2024    0.044
CONROD  2070551 26821   26825   2024    0.041
CONROD  2070552 26825   26829   2024    0.041
$   LOWER SKIN   209-030-207-027    .016 ALUMINUM
CSHEAR  2070271 0162024 25021   26821   26825   25025
CONROD  2072701 25021   26821   2024    0.073
CONROD  2072702 25025   26825   2024    0.160
CONROD  2072711 25021   25025   2024    0.144
CONROD  2072713 26821   26825   2024    0.144
CSHEAR  2070272 0162024 25025   26825   26829   25029
CONROD  2072703 25025   26825   2024    0.160
CONROD  2072704 25029   26829   2024    0.073
CONROD  2072712 25025   25029   2024    0.144
CONROD  2072714 26825   26829   2024    0.144
$   UPPER SKIN   209-030-207-081    .012 ALUMINUM
CSHEAR  2070811 0122024 25021   26821   26825   25025
CONROD  2078101 25021   26821   2024    0.040
CONROD  2078102 25025   26825   2024    0.118
CONROD  2078111 25021   25025   2024    0.090
CONROD  2078113 26821   26825   2024    0.090
CSHEAR  2070812 0122024 25025   26825   26829   25029
CONROD  2078103 25025   26825   2024    0.118
CONROD  2078104 25029   26829   2024    0.040
CONROD  2078112 25025   25029   2024    0.090
CONROD  2078114 26825   26829   2024    0.090
$
$                           FLOOR PANEL - WL 35.97
$                                209-030-207-085
$                          STA 268.25 TO BS  41.32
$
$   DOUBLERS
CONROD  2070571 26821   29921   7075    0.156
CONROD  2070151 26829   29929   2024    0.028
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CONROD  2070131 26821   26825   2024    0.041
CONROD  2070132 26825   26829   2024    0.041
CONROD  2070211 29921   29925   2024    0.039
CONROD  2070212 29925   29929   2024    0.039
$   LOWER SKIN   209-030-207-065    .008 ALUMINUM
CSHEAR  2070651 0082024 26821   26921   26925   26825
CONROD  2076501 26821   29921   2024    0.019
CONROD  2076502 26825   29925   2024    0.065
CONROD  2076511 26821   26825   2024    0.111
CONROD  2076513 29921   29925   2024    0.111
CSHEAR  2070652 0082024 26825   26925   26929   26829
CONROD  2076503 26825   29925   2024    0.065
CONROD  2076504 26829   29929   2024    0.013
CONROD  2076512 26825   26829   2024    0.111
CONROD  2076514 26925   26929   2024    0.111
$   UPPER SKIN   209-030-207-087    .016 ALUMINUM
CSHEAR  2070871 0162024 26821   26921   26925   26825
CONROD  2078701 26821   29921   2024    0.063
CONROD  2078702 26825   29925   2024    0.141
CONROD  2078711 26821   26825   2024    0.248
CONROD  2078713 29921   29925   2024    0.248
CSHEAR  2070872 0162024 26825   26925   26929   26829
CONROD  2078703 26825   26925   2024    0.141
CONROD  2078704 26829   29929   2024    0.063
CONROD  2078712 26825   26829   2024    0.248
CONROD  2078714 29925   29929   2024    0.248
$
$                          GUNNER'S FLOOR - WL 46.00
$                                209-030-201-089
$                          STA  46.00 TO STA  93.00
$
$   DOUBLERS
CONROD  2010191  4633    6131    2024    0.018
CONROD  2010192  1001    6139    2024    0.018
CONROD  2010211  4633    1001    2024    0.024
$   LOWER SKIN   209-030-201-087    .012 ALUMINUM
CTRMEM  2010671 0122024  4633    6131    6133
CSHEAR  2010672 0122024  4633    6133    6137    1001
CONROD  2016701  4633    6133    2024    0.029
CONROD  2016702  1001    6137    2024    0.029
CONROD  2016703  4633    1001    2024    0.079
CONROD  2016704  6133    6137    2024    0.079
CTRMEM  2010673 0122024  1001    6137    6139
$   LOWER SKIN   209-030-201-085    .032 ALUMINUM
CSHEAR  2010851 0322024  6131    7031    7033    6133
CONROD  2018501  6131    7031    2024    0.032
CONROD  2018502  6133    7033    2024    0.032
CONROD  2018507  6131    6133    2024    0.127
CONROD  2018510  7031    7033    2024    0.127
CSHEAR  2010852 0322024  6133    7033    7037    6137
CONROD  2018503  6133    7033    2024    0.320
CONROD  2018504  6137    7037    2024    0.320
CONROD  2018508  6133    6137    2024    0.127
CONROD  2018511  7033    7037    2024    0.127
CSHEAR  2010853 0322024  6137    7037    7039    6139
CONROD  2018505  6137    7037    2024    0.032
CONROD  2018506  6139    7039    2024    0.032
CONROD  2018509  6137    6139    2024    0.127
CONROD  2018512  7037    7039    2024    0.127
CSHEAR  2010854 0322024  7031    8531    8533    7033
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CONROD  2018521  7031     8531     2024     0.062
CONROD  2018522  7033     8533     2024     0.062
CONROD  2018525  7031     7033     2024     0.232
CONROD  2018527  8531     8533     2024     0.232
CSHEAR  2010856 0322024   7037     8537     8539     7039
CONROD  2018523  7037     8537     2024     0.062
CONROD  2018524  7039     8539     2024     0.062
CONROD  2018526  7037     7039     2024     0.232
CONROD  2018528  8537     8539     2024     0.232
CSHEAR  2010857 0322024   8531     9331     9333     8533
CONROD  2018531  8531     9331     2024     0.082
CONROD  2018532  8533     9333     2024     0.082
CONROD  2018537  8531     8533     2024     0.098
CONROD  2018540  9331     9333     2024     0.098
CSHEAR  2010858 0322024   8533     9333     1003     8537
CONROD  2018533  8533     9333     2024     0.320
CONROD  2018534  8537     1003     2024     0.320
CONROD  2018538  8533     8537     2024     0.098
CONROD  2018541  9333     1003     2024     0.098
CSHEAR  2010859 0322024   8537     1003     9339     8539
CONROD  2018535  8537     1003     2024     0.082
CONROD  2018536  8539     9339     2024     0.082
CONROD  2018539  8537     8539     2024     0.098
CONROD  2018542  1003     9339     2024     0.098
$    INTERIOR SKIN    209-030-201-053    .016 ALUMINUM
CSHEAR  2010531 0162024   6131     7031     7033     6133
CONROD  2015301  6131     7031     2024     0.029
CONROD  2015302  6133     7033     2024     0.029
CONROD  2015307  6131     6133     2024     0.076
CONROD  2015310  7031     7033     2024     0.076
CSHEAR  2010532 0162024   6133     7033     7037     6137
CONROD  2015303  6133     7033     2024     0.160
CONROD  2015304  6137     7037     2024     0.160
CONROD  2015308  6133     6137     2024     0.076
CONROD  2015311  7033     7037     2024     0.076
CSHEAR  2010533 0162024   6137     7037     7039     6139
CONROD  2015305  6137     7037     2024     0.029
CONROD  2015306  6139     7039     2024     0.029
CONROD  2015309  6137     6139     2024     0.076
CONROD  2015312  7037     7039     2024     0.076
CSHEAR  2010534 0162024   7031     8531     8533     7033
CONROD  2015321  7031     8531     2024     0.044
CONROD  2015322  7033     8533     2024     0.044
CONROD  2015325  7031     7033     2024     0.116
CONROD  2015327  8531     8533     2024     0.116
CSHEAR  2010536 0162024   7037     8537     8539     7039
CONROD  2015323  7037     8537     2024     0.044
CONROD  2015324  7039     8539     2024     0.044
CONROD  2015326  7037     7039     2024     0.116
CONROD  2015328  8537     8539     2024     0.116
CSHEAR  2010537 0162024   8531     9331     9333     8533
CONROD  2015331  8531     9331     2024     0.054
CONROD  2015332  8533     9333     2024     0.054
CONROD  2015337  8531     8533     2024     0.062
CONROD  2015343  9331     9333     2024     0.062
CSHEAR  2010538 0162024   8533     9333     1003     8537
CONROD  2015333  8533     9333     2024     0.160
CONROD  2015334  8537     1003     2024     0.160
CONROD  2015338  8533     8537     2024     0.062
CONROD  2015341  9333     1003     2024     0.062
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CSHEAR  2010539 0162024   8537     1003     9339     8539
CONROD  2015336  8539     9339     2024     0.054
CONROD  2015335  8537     1003     2024     0.054
CONROD  2015339  8537     8539     2024     0.062
CONROD  2015342  1003     9339     2024     0.062
$    UPPER SKIN    209-030-201-069    .020 ALUMINUM
CTRMEM  2010691 0202024   4633     6131     6133
CSHEAR  2010692 0202024   4633     6133     6137     1001
CONROD  2016901  4633     6133     2024     0.062
CONROD  2016902  1001     6137     2024     0.062
CONROD  2016903  4633     1001     2024     0.151
CONROD  2016904  6133     6137     2024     0.151
CTRMEM  2010693 0202024   1001     6137     6139
CSHEAR  2010694 0202024   6131     7031     7033     6133
CONROD  2016911  6131     7031     2024     0.036
CONROD  2016912  6133     7033     2024     0.036
CONROD  2016917  6131     6133     2024     0.095
CONROD  2016920  7031     7033     2024     0.095
CSHEAR  2010695 0202024   6133     7033     7037     6137
CONROD  2016913  6133     7033     2024     0.200
CONROD  2016914  6137     7037     2024     0.200
CONROD  2016918  6133     6137     2024     0.095
CONROD  2016921  7033     7037     2024     0.095
CSHEAR  2010696 0202024   6137     7037     7039     6139
CONROD  2016915  6137     7037     2024     0.036
CONROD  2016916  6139     7039     2024     0.036
CONROD  2016919  6137     6139     2024     0.095
CONROD  2016922  7037     7039     2024     0.095
CSHEAR  2010697 0202024   7031     8531     8533     7033
CONROD  2016931  7031     8531     2024     0.055
CONROD  2016932  7033     8533     2024     0.055
CONROD  2016935  7031     7033     2024     0.148
CONROD  2016937  8531     8533     2024     0.148
CSHEAR  2010698 0202024   7037     8537     8539     7039
CONROD  2016933  7037     8537     2024     0.055
CONROD  2016934  7039     8539     2024     0.055
CONROD  2016936  7037     7039     2024     0.148
CONROD  2016938  8537     8539     2024     0.148
CSHEAR  2010701 0202024   8531     9331     9333     8533
CONROD  2017001  8531     9331     2024     0.067
CONROD  2017002  8533     9333     2024     0.067
CONROD  2017007  8531     8533     2024     0.077
CONROD  2017010  9331     9333     2024     0.077
CSHEAR  2010702 0202024   8533     9333     1003     8537
CONROD  2017003  8533     9333     2024     0.200
CONROD  2017004  8537     1003     2024     0.200
CONROD  2017008  8533     8537     2024     0.077
CONROD  2017011  9333     1003     2024     0.077
CSHEAR  2010703 0202024   8537     1003     9339     8539
CONROD  2017005  8537     1003     2024     0.067
CONROD  2017006  8539     9339     2024     0.067
CONROD  2017009  8537     8539     2024     0.077
CONROD  2017012  1003     9339     2024     0.077
$
$                         TURRET SUPPORT FITTINGS - FWD
$                         209-030-251-002
$
CONROD  2510021  7033     7043     2014     0.585
CONROD  2510022  7037     7047     2014     0.549
$
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$                          TURRET SUPPORT FITTINGS - AFT
$                                209-030-187-003
$
CONROD  1870031  8533     8543    2014     0.581
CONROD  1870032  8537     8547    2014     0.574
$
$                        XM-28 ARMAMENT SUBSYSTEM - TURRET
$
$
$
$                          AMMUNITION COVER - WL 46.00
$                                209-030-217-005
$                           STA 102.00 TO STA 138.70
$
$    DOUBLERS
CONROD  2170171  9333    11533    2024     0.027
CONROD  2170101  9333    11533    2024     0.052
CONROD  2170172 11533    13833    2024     0.027
CONROD  2170102 11533    13833    2024     0.052
CONROD  2170291  1003    11537    2024     0.027
CONROD  2170091  1003    11537    2024     0.052
CONROD  2170292 11537     1004    2024     0.027
CONROD  2170092 11537     1004    2024     0.052
CONROD  2170191  9333     1003    2024     0.032
CONROD  2380031  9333     1003    7075     0.108
CONROD  2170271 13833     1004    2024     0.032
$    LOWER SKIN    209-030-211-007     .032 ALUMINUM
CSHEAR  2110071 0322024  9331     9333    11533    11531
CONROD  2110701  9331    11531    2024     0.109
CONROD  2110704  9333    11533    2024     0.109
CONROD  2110707  9331     9333    2024     0.361
CONROD  2110708 11531    11533    2024     0.361
CSHEAR  2110072 0322024 11531    11533    13833    13831
CONROD  2110702 11531    13831    2024     0.109
CONROD  2110705 11533    13833    2024     0.109
CONROD  2110709 11531    11533    2024     0.370
CONROD  2110710 13831    13833    2024     0.370
CSHEAR  2110073 0322024 13831    13833    14833    14831
CONROD  2110703 13831    14831    2024     0.109
CONROD  2110706 13833    14833    2024     0.109
CONROD  2110711 13831    13833    2024     0.157
CONROD  2110712 14831    14833    2024     0.157
CSHEAR  2110051 0322024  1003     9339    11539    11537
CONROD  2110501  1003    11537    2024     0.109
CONROD  2110504  9339    11539    2024     0.109
CONROD  2110507  1003     9339    2024     0.361
CONROD  2110508 11537    11539    2024     0.361
CSHEAR  2110052 0322024 11537    11539    13839    1004
CONROD  2110502 11537     1004    2024     0.109
CONROD  2110505 11539    13839    2024     0.109
CONROD  2110509 11537    11539    2024     0.370
CONROD  2110510  1004    13839    2024     0.370
CSHEAR  2110053 0322024  1004    13839    14839    14837
CONROD  2110503  1004    14837    2024     0.109
CONROD  2110506 13839    14839    2024     0.109
CONROD  2110511  1004    13839    2024     0.157
CONROD  2110512 14837    14839    2024     0.157
$    LOWER SKIN    209-030-217-011     .016 ALUMINUM
CSHEAR  2170111 0162024  9333    11533    11537     1003
CONROD  2171101  9333    11533    2024     0.053
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CONROD  2171103  1003    11537    2024     0.053
CONROD  2171105  9333     1003    2024     0.109
CONROD  2171106 11533    11537    2024     0.109
CSHEAR  2170112 0162024 11533    13833     1004     11537
CONROD  2171102 11533    13833    2024     0.053
CONROD  2171104 11537     1004    2024     0.053
CONROD  2171107 11533    11537    2024     0.183
CONROD  2171108 13833     1004    2024     0.183
$    UPPER SKIN    209-030-217-033     .012 ALUMINUM
CSHEAR  2170331 0122024  9333    11533    11537     1003
CONROD  2173301  9333    11533    2024     0.028
CONROD  2173303  1003    11537    2024     0.028
CONROD  2173305  9333     1003    2024     0.075
CONROD  2173306 11533    11537    2024     0.075
CSHEAR  2170332 0122024 11533    13833     1004     11537
CONROD  2173302 11533    13833    2024     0.028
CONROD  2173304 11537     1004    2024     0.028
CONROD  2173307 11533    11537    2024     0.131
CONROD  2173308 13833     1004    2024     0.131
$
$                          PILOT'S FLOOR - WL 55.00
$                                209-030-202-001
$                           STA  95.44 TO STA 148.50
$
$    DOUBLERS
CONROD  2020291  9343    11543    2024     0.027
CONROD  1560041  9343    11543    7075     0.132
CONROD  2020292 11543    13843    2024     0.026
CONROD  1560042 11543    13843    7075     0.130
CONROD  2020293 13843    14843    2024     0.030
CONROD  1560043 13843    14843    7075     0.194
CONROD  2020271  9347    11547    2024     0.027
CONROD  1560031  9347    11547    7075     0.124
CONROD  2020272 11547    13847    2024     0.026
CONROD  1560032 11547    13847    7075     0.122
CONROD  2020273 13847    14847    2024     0.030
CONROD  1560033 13847    14847    7075     0.200
CONROD  2020171  9343     9347    2024     0.183
CONROD  2020172 13843    13847    2024     0.041
CONROD  2020173 14843    14847    2024     0.027
$    LOWER SKIN    209-030-207-077     .016 ALUMINUM
CSHEAR  2070771 0162024  9343    11543    11547     9347
CONROD  2077701  9343    11543    2024     0.034
CONROD  2077704  9347    11547    2024     0.034
CONROD  2077707  9343     9347    2024     0.150
CONROD  2077708 11543    11547    2024     0.150
CSHEAR  2070772 0162024 11543    13843    13847    11547
CONROD  2077702 11543    13843    2024     0.031
CONROD  2077705 11547    13847    2024     0.031
CONROD  2077708 11543    11547    2024     0.175
CONROD  2077710 13843    13847    2024     0.175
CSHEAR  2070773 0162024 13843    14843    14847    13847
CONROD  2077703 13843    14843    2024     0.029
CONROD  2077706 13847    14847    2024     0.029
CONROD  2077711 13843    13847    2024     0.083
CONROD  2077712 14843    14847    2024     0.083
$    UPPER SKIN    209-030-202-073     .020 ALUMINUM
CSHEAR  2020731 0202024  9343    11543    11547     9347
CONROD  2027301  9343    11543    2024     0.085
CONROD  2027304  9347    11547    2024     0.085
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CONROD  2027307  9343    9347    2024    0.200
CONROD  2027308  11543   11547   2024    0.200
CSHEAR  2020732 0202024 11543   13843   13847   11547
CONROD  2027302  11543   13843   2024    0.065
CONROD  2027305  11547   13847   2024    0.065
CONROD  2027309  11543   11547   2024    0.231
CONROD  2027310  13843   13847   2024    0.231
CSHEAR  2020733 0202024 13843   14843   14847   13847
CONROD  2027303  13843   14843   2024    0.065
CONROD  2027306  13847   14847   2024    0.065
CONROD  2027311  13843   13847   2024    0.097
CONROD  2027312  14843   14847   2024    0.097
$
$                       GUNNER/PILOT CONSOLE WEB - RIGHT SIDE
$                                   209-030-250-177
$                               STA  61.25 TO STA 186.25
$
$   LOWER SKIN    209-030-250-177     032 ALUMINUM
CSHEAR  2501771 0322024  6161    6163    7063    7061
CONROD  2507701  6161    7061    2024    0.084
CONROD  2507707  6163    7063    2024    0.084
CONROD  2507713  6161    6163    2024    0.153
CONROD  2507714  7061    7063    2024    0.153
CSHEAR  2501772 0322024  7061    7063    8563    8561
CONROD  2507702  7061    8561    2024    0.098
CONROD  2507708  7063    8563    2024    0.098
CONROD  2507715  7061    7063    2024    0.232
CONROD  2507716  8561    8563    2024    0.232
CSHEAR  2501773 0322024  8561    8563    9363    9361
CONROD  2507703  8561    9361    2024    0.113
CONROD  2507709  8563    9363    2024    0.113
CONROD  2507717  8561    8563    2024    0.190
CONROD  2507718  9361    9363    2024    0.190
CSHEAR  2501774 0322024  9361    9363    11563   11561
CONROD  2507704  9361    11561   2024    0.120
CONROD  2507710  9363    11563   2024    0.120
CONROD  2507719  9361    9363    2024    0.295
CONROD  2507720  11561   11563   2024    0.295
CSHEAR  2501775 0322024 11561   11563   13863   13861
CONROD  2507705  11561   13861   2024    0.121
CONROD  2507711  11563   13863   2024    0.121
CONROD  2507721  11561   11563   2024    0.370
CONROD  2507722  13861   13863   2024    0.370
CSHEAR  2501776 0322024 13861   13863   14863   14861
CONROD  2507706  13861   14861   2024    0.121
CONROD  2507712  13863   14863   2024    0.121
CONROD  2507723  13861   13863   2024    0.157
CONROD  2507724  14861   14863   2024    0.157
CTRMEM  2501777 0322024 14861   14863   18861
$
$                       GUNNER/PILOT CONSOLE WEB - LEFT SIDE
$                                   209-030-210-089
$                               STA  61.25 TO STA 186.25
$
$   LOWER SKIN    209-030-210-089     032 ALUMINUM
CSHEAR  2100891 0322024  6167    6169    7069    7067
CONROD  2108901  6167    7067    2024    0.084
CONROD  2108907  6169    7069    2024    0.084
CONROD  2108913  6167    6169    2024    0.153
CONROD  2108914  7067    7069    2024    0.153
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CSHEAR  2100892 0322024  7067    7069    8569    8567
CONROD  2108902  7067    8567    2024    0.098
CONROD  2108908  7069    8569    2024    0.098
CONROD  2108915  7067    7069    2024    0.232
CONROD  2108916  8567    8569    2024    0.232
CSHEAR  2100893 0322024  8567    8569    9369    9367
CONROD  2108903  8567    9367    2024    0.113
CONROD  2108909  8569    9369    2024    0.113
CONROD  2108917  8567    8569    2024    0.190
CONROD  2108918  9367    9369    2024    0.190
CSHEAR  2100894 0322024  9367    9369    11569   11567
CONROD  2108904  9367    11567   2024    0.120
CONROD  2108910  9369    11569   2024    0.120
CONROD  2108919  9367    9369    2024    0.295
CONROD  2108920  11567   11569   2024    0.295
CSHEAR  2100895 0322024 11567   11569   13869   13867
CONROD  2108905  11567   13867   2024    0.121
CONROD  2108911  11569   13869   2024    0.121
CONROD  2108921  11567   11569   2024    0.267
CONROD  2108922  13867   13869   2024    0.267
CSHEAR  2100896 0322024 13867   13869   14869   14867
CONROD  2108906  13867   14867   2024    0.121
CONROD  2108912  13869   14869   2024    0.121
CONROD  2108923  13867   13869   2024    0.260
CONROD  2108924  14867   14869   2024    0.260
CTRMEM  2100897 0322024 14867   14869   18869
$
$                           ENGINE DECK - WL 65.00
$                                   209-030-209-119
$                           STA 213.94 TO STA 250.00
$
$   DOUBLERS
CONROD  2091270 21361   25061   7075    0.038
CONROD  2091271 21367   25069   7075    0.094
CONROD  2091272 21361   21363   7075    0.168
CONROD  2091273 21363   21364   7075    0.168
CONROD  2091274 21364   21366   7075    0.168
CONROD  2091275 21366   21367   7075    0.168
CONROD  2091276 25061   1007    7075    0.051
CONROD  2091277 1007    25069   7075    0.051
$   LOWER SKIN    209-030-209-129     .020 GLASS FABRIC
CTRMEM  2091281 0200076 21361   25061   21363
CSHEAR  2091282 0200076 21363   25061   1007    21364
CONROD  2092901 21363   25061   0076    0.085
CONROD  2092902 21364   1007    0076    0.085
CONROD  2092911 21363   21364   0076    0.359
CONROD  2092913 25061   1007    0076    0.359
CTRMEM  2091283 0200076 21364   1007    21366
CSHEAR  2091294 0200076 21366   1007    25069   21367
CONROD  2092903 21366   1007    0076    0.080
CONROD  2092904 21367   25069   0076    0.080
CONROD  2092912 21366   21367   0076    0.359
CONROD  2092914 1007    25069   0076    0.359
CTRMEM  2091295 0200076 21367   25069   21369
$   UPPER SKIN    209-030-209-125     .016 TITANIUM
CTRMEM  2091251 0188046 21361   25061   21363
CSHEAR  2091252 0188046 21363   25061   1007    21364
CONROD  2092501 21363   25061   8046    0.068
CONROD  2092502 21364   1007    8046    0.068
CONROD  2092511 21363   21364   8046    0.287
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CONROD  2092513 25061   1007    9046    0.287
CTRMEM  2091253 0189046 21364   1007    21366
CSHEAR  2091254 0189046 21366   1007    25069   21367
CONROD  2092503 21366   1007    9046    0.064
CONROD  2092504 21367   25069   9046    0.064
CONROD  2092512 21366   21367   9046    0.287
CONROD  2092514 1007    25069   9046    0.287
CTRMEM  2091255 0189046 21367   25069   21369
$
$                               ENGINE DECK - WL 65.00
$                                   209-030-209-119
$                               STA 250.00 TO BS  41.32
$
$   DOUBLERS
CONROD  2091031 25061   26861   2024    0.071
CONROD  2090051 25061   26861   7075    0.036
CONROD  2091032 1007    26865   2024    0.071
CONROD  2090052 1007    26865   7075    0.036
CONROD  2091011 1007    26865   2024    0.049
CONROD  2090053 1007    26865   7075    0.025
CONROD  2091012 25069   1008    2024    0.049
CONROD  2090054 25069   1008    7075    0.025
CONROD  2090411 25061   1007    2024    0.408
CONROD  2090055 25061   1007    7075    0.283
CONROD  2090412 1007    25069   2024    0.408
CONROD  2090056 1007    25069   7075    0.283
CONROD  2090431 26861   26865   2024    0.273
CONROD  2090057 26861   26865   7075    0.258
CONROD  2090432 26865   1008    2024    0.273
CONROD  2090058 26865   1008    7075    0.258
CONROD  2091281 26861   29961   7075    0.031
CONROD  2091282 1008    1009    7075    0.047
CONROD  2091283 26861   26865   7075    0.054
CONROD  2091284 26865   1008    7075    0.054
CONROD  2091285 29961   29965   7075    0.036
CONROD  2091286 29965   1009    7075    0.036
$   LOWER SKIN   209-030-209-129    .020 GLASS FABRIC
CSHEAR  2091296 0200076 25061   26861   26865   1007
CONROD  2092921 25061   26861   0076    0.099
CONROD  2092922 1007    26865   0076    0.207
CONROD  2092931 25061   1007    0076    0.183
CONROD  2092933 26861   26865   0076    0.183
CSHEAR  2091297 0200076 1007    26865   1008    25069
CONROD  2092923 1007    26865   0076    0.207
CONROD  2092924 25069   1008    0076    0.099
CONROD  2092932 1007    25069   0076    0.183
CONROD  2092934 26865   1008    0076    0.183
CSHEAR  2091298 0200076 26861   29961   29965   26865
CONROD  2092941 26861   29961   0076    0.086
CONROD  2092942 26865   29965   0076    0.181
CONROD  2092951 26861   26865   0076    0.303
CONROD  2092953 29961   29965   0076    0.303
CSHEAR  2091299 0200075 26865   29965   1009    1008
CONROD  2092943 26865   29965   0076    0.181
CONROD  2092944 1008    1009    0076    0.086
CONROD  2092952 26865   1008    0076    0.303
CONROD  2092954 29965   1009    0076    0.303
$   UPPER SKIN   209-030-209-125    .016 TITANIUM
CSHEAR  2091256 0189046 25061   26861   26865   1007
CONROD  2092521 25061   26861   9046    0.079
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CONROD  2092522 1007    26865   9046    0.165
CONROD  2092531 25061   1007    9046    0.146
CONROD  2092533 26861   26865   9046    0.146
CSHEAR  2091257 0189046 1007    26865   1008    25069
CONROD  2092523 1007    26865   9046    0.165
CONROD  2092524 25069   1008    9046    0.079
CONROD  2092532 1007    25069   9046    0.146
CONROD  2092534 26865   1008    9046    0.146
CSHEAR  2091258 0189046 26861   29961   29965   26865
CONROD  2092541 26861   29961   9046    0.089
CONROD  2092542 26865   29965   9046    0.145
CONROD  2092551 26861   26865   9046    0.242
CONROD  2092553 29961   29965   9046    0.242
CSHEAR  2091259 0189046 26865   29965   1009    1008
CONROD  2092543 26865   29965   9046    0.145
CONROD  2092544 1008    1009    9046    0.089
CONROD  2092552 26865   1008    9046    0.242
CONROD  2092554 29965   1009    9046    0.242
$   UPPER SKIN   209-030-209-127    .012 TITANIUM
CSHEAR  2091278 0129046 25061   26861   26865   1007
CONROD  2092701 25061   26861   9046    0.060
CONROD  2092702 1007    26865   9046    0.124
CONROD  2092711 25061   1007    9046    0.110
CONROD  2092713 26861   26865   9046    0.110
CSHEAR  2091279 0129046 1007    26865   1008    25069
CONROD  2092703 1007    26865   9046    0.124
CONROD  2092704 25069   1008    9046    0.060
CONROD  2092712 1007    25069   9046    0.110
CONROD  2092714 26865   1008    9046    0.110
$
$                       FORWARD FUEL CELL COVER - WL 77.57
$                                   209-030-208-075
$                           STA 152.27 TO STA 185.25
$
$   DOUBLERS
CONROD  2084501 14881   15481   2024    0.045
CONROD  2084511 14889   1005    2024    0.044
CONROD  2084521 14881   14883   2024    0.078
CONROD  2084522 14883   14887   2024    0.078
CONROD  2084523 14887   14889   2024    0.078
CONROD  2084531 15481   15483   2024    0.090
CONROD  2084532 15483   15485   2024    0.090
CONROD  2084533 15485   15487   2024    0.090
CONROD  2084534 15487   1005    2024    0.090
CONROD  2084502 15481   18681   2024    0.045
CONROD  2080231 15483   18683   7075    0.476
CONROD  2080232 15487   18687   7075    0.476
CONROD  2084512 1005    18689   2024    0.045
CONROD  2084541 18881   18883   2024    0.054
CONROD  2084542 18883   18885   2024    0.054
CONROD  2084543 18885   18887   2024    0.054
CONROD  2084544 18887   18889   2024    0.054
$   LOWER SKIN   209-030-208-011    .008 ALUMINUM
CTRMEM  2080111 0082024 14883   15483   15485
CTRMEM  2080112 0082024 14883   15485   14887
CTRMEM  2080113 0082024 14887   15485   15487
CSHEAR  2080114 0082024 14887   15487   1005    14889
CONROD  2081101 14887   15487   2024    0.016
CONROD  2081102 14889   1005    2024    0.016
CONROD  2081103 14887   14889   2024    0.036
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CONROD  2081104 16487   1005    2024    0.036
$   LOWER SKIN   209-030-208-013    .008 ALUMINUM
CSHEAR  2080131 0082024 16481   18681   18683   16483
CONRDD  2081301 16481   18681   2024    0.014
CONRDD  2081302 16483   18683   2024    0.014
CONROD  2081309 16481   16483   2024    0.075
CONROD  2081313 18681   18683   2024    0.075
CSHEAR  2080132 0082024 16483   18683   18685   16485
CONROD  2081303 16483   18683   2024    0.050
CONROD  2081304 16485   18685   2024    0.050
CONROD  2081310 16483   16485   2024    0.075
CONROD  2081314 18683   18685   2024    0.075
CSHEAR  2080133 0082024 16485   18685   18687   16487
CONROD  2081305 16485   18685   2024    0.050
CONROD  2081306 16487   18687   2024    0.050
CONROD  2081311 16485   16487   2024    0.075
CONROD  2081315 18685   18687   2024    0.075
CSHEAR  2080134 0082024 16487   18687   18689   1005
CONROD  2081307 16487   18687   2024    0.014
CONROD  2081308 1005    18689   2024    0.014
CONROD  2081312 16487   1005    2024    0.075
CONROD  2081316 18687   18689   2024    0.075
$   UPPER SKIN   209-030-208-079    .016 ALUMINUM
CSHEAR  2080791 0162024 14881   16481   16483   14883
CONROD  2087901 14881   16481   2024    0.047
CONROD  2087902 14883   16483   2024    0.047
CONROD  2087905 14881   14883   2024    0.093
CONROD  2087907 16481   16483   2024    0.093
CTRMEM  2080792 0162024 14883   16483   16485
CTRMEM  2080793 0162024 14883   16485   14887
CTRMEM  2080794 0162024 14887   16485   16487
CSHEAR  2080795 0162024 14887   16487   1005    14889
CONROD  2087903 14887   16487   2024    0.047
CONROD  2087904 14889   1005    2024    0.047
CONROD  2087906 14887   14889   2024    0.093
CONROD  2087908 16487   1005    2024    0.093
CSHEAR  2080786 0162024 16481   18681   18683   16483
CONROD  2087921 16481   18681   2024    0.040
CONROD  2087922 16483   18683   2024    0.040
CONROD  2087929 16481   16483   2024    0.175
CONROD  2087933 18681   18683   2024    0.175
CSHEAR  2080787 0162024 16483   18683   18685   16485
CONROD  2087923 16483   18683   2024    0.062
CONROD  2087924 16485   18685   2024    0.062
CONROD  2087930 18483   16485   2024    0.175
CONROD  2087934 18683   18685   2024    0.175
CSHEAR  2080788 0162024 16485   18685   18687   16487
CONROD  2087925 16485   18685   2024    0.062
CONROD  2087926 16487   18687   2024    0.062
CONROD  2087931 18485   16487   2024    0.175
CONROD  2087935 18685   18687   2024    0.175
CSHEAR  2080789 0162024 16487   18687   18689   1005
CONROD  2087927 16487   18687   2024    0.040
CONROD  2087928 1005    18689   2024    0.040
CONROD  2087932 16487   1005    2024    0.175
CONROD  2087936 18687   18689   2024    0.175
$
$                           LOWER SKINS AND AXIAL MEMBERS
$                             STA  93.00 TO STA 138.70
$
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$   AXIAL MEMBERS
CONROD  2030521   9313    11503   2024    0.302
CONROD  2030522  11503    13803   2024    0.302
CONROD  2030523   9303    13803   2024    0.065
CONROD  2030511   9317    11507   2024    0.302
CONROD  2030512  11507    13807   2024    0.302
CONROD  2030513   9307    13807   2024    0.065
$   LOWER SKINS
CSHEAR  2030291 0252024   9303    9307    13807   13803
CONROD  2032901   9303    13803   2024    0.250
CONROD  2032902   9307    13807   2024    0.250
CONROD  2032903   9303    9307    2024    0.575
CONROD  2032904  13803    13807   2024    0.575
$
$                           LOWER SKINS AND AXIAL MEMBERS
$                             STA 138.70 TO STA 148.50
$
$   AXIAL MEMBERS
CONROD  2200441  13801    14801   2024    0.046
CONROD  1160311  13803    14803   7075    0.521
CONROD  1150231  13807    14807   7075    0.455
CONROD  2200431  13809    14809   2024    0.046
$   LOWER SKINS
CSHEAR  2200621 0322024  13821   14821   14801   13801
CONROD  2206201  13821    14821   2024    0.131
CONROD  2206202  13801    14801   2024    0.131
CONROD  2206203  13821    13801   2024    0.157
CONROD  2206204  14821    14801   2024    0.157
CSHEAR  2201011 0252024  13801   14801   14803   13803
CONROD  2200101  13801    14801   2024    0.074
CONROD  2200102  13803    14803   2024    0.074
CONROD  2200103  13801    13803   2024    0.123
CONROD  2200104  14801    14803   2024    0.123
CSHEAR  2201012 0252024  13803   14803   14807   13807
CONROD  2200111  13803    14803   2024    0.250
CONROD  2200112  13807    14807   2024    0.250
CONROD  2200113  13803    13807   2024    0.123
CONROD  2200114  14803    14807   2024    0.123
CSHEAR  2201013 0252024  13807   14807   14809   13809
CONROD  2200121  13807    14807   2024    0.074
CONROD  2200122  13809    14809   2024    0.074
CONROD  2200123  13807    13809   2024    0.123
CONROD  2200124  14807    14809   2024    0.123
CSHEAR  2200611 0322024  13829   14829   14809   13809
CONROD  2206101  13809    14809   2024    0.131
CONROD  2206102  13829    14829   2024    0.131
CONROD  2206103  13809    13829   2024    0.157
CONROD  2206104  14809    14829   2024    0.157
$
$                           LOWER SKINS AND AXIAL MEMBERS
$                             STA 156.41 TO STA 186.25
$
$   AXIAL MEMBERS
CONROD  2200551  15803    18803   7075    0.117
CONROD  2200651  15807    18807   7075    0.117
$   LOWER SKINS
CSHEAR  2200771 0252024  15621   18621   18801   15801
CONROD  2207701  15821    18821   2024    0.089
CONROD  2207702  15801    18801   2024    0.089
CONROD  2207703  15521    15601   2024    0.373
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CONROD  2207704 18621   18801   2024    0.373
CSHEAR  2200772 0252024 15801   18601   18603   15603
CONROD  2207711 15601   18601   2024    0.083
CONROD  2207712 15603   18603   2024    0.083
CONROD  2207713 15601   15603   2024    0.373
CONROD  2207714 18601   18603   2024    0.373
CSHEAR  2200773 0252024 15603   15607   18607   18603
CONROD  2207721 15603   18603   2024    0.241
CONROD  2207722 15607   18607   2024    0.241
CONROD  2207723 15603   15607   2024    0.373
CONROD  2207724 18603   18607   2024    0.373
CSHEAR  2200774 0252024 15607   18607   18609   15609
CONROD  2207731 15607   18607   2024    0.083
CONROD  2207732 15609   18609   2024    0.083
CONROD  2207733 15607   15609   2024    0.373
CONROD  2207734 18607   18609   2024    0.373
CSHEAR  2200775 0252024 15629   18629   18609   15609
CONROD  2207741 15609   18609   2024    0.089
CONROD  2207742 15629   18629   2024    0.089
CONROD  2207743 15609   15629   2024    0.373
CONROD  2207744 18609   18629   2024    0.373
$
$                       LOWER SKINS AND AXIAL MEMBERS
$                         STA 186.25 TO STA 218.97
$
$   AXIAL MEMBERS
CONROD  2200801 18603   21803   7075    0.117
CONROD  2200591 18607   21807   7075    0.117
$   LOWER SKINS
CSHEAR  2200721 0252024 18621   21321   21801   18601
CONROD  2207201 18621   21321   2024    0.092
CONROD  2207202 18601   21801   2024    0.092
CONROD  2207203 18621   18601   2024    0.378
CONROD  2207204 21321   21801   2024    0.378
CTRMEM  2200722 0252024 21321   21821   21801
CSHEAR  2200723 0252024 18601   21801   21803   18603
CONROD  2207211 18601   21801   2024    0.077
CONROD  2207212 18603   21803   2024    0.077
CONROD  2207213 18601   18603   2024    0.409
CONROD  2207214 21801   21803   2024    0.409
CSHEAR  2570011 0242024 18603   18607   21807   21803
CONROD  2570101 18603   21803   2024    0.215
CONROD  2570102 18607   21807   2024    0.215
CONROD  2570103 18803   18607   2024    0.383
CONROD  2570104 21803   21807   2024    0.383
CSHEAR  2200713 0252024 18607   21807   21809   18609
CONROD  2207101 18607   21807   2024    0.077
CONROD  2207102 18609   21809   2024    0.077
CONROD  2207103 18607   18609   2024    0.409
CONROD  2207104 21807   21809   2024    0.409
CSHEAR  2200711 0252024 18629   21329   21809   18609
CONROD  2207111 18609   21809   2024    0.092
CONROD  2207112 18629   21329   2024    0.092
CONROD  2207113 18609   18629   2024    0.378
CONROD  2207114 21809   21329   2024    0.378
CTRMEM  2200712 0252024 21329   21829   21809
$
$                       LOWER SKINS AND AXIAL MEMBERS
$                         STA 227.62 TO STA 250.00
$
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$   AXIAL MEMBERS
CONROD  2200581 22703   25003   7075    0.117
CONROD  2200571 22707   25007   7075    0.117
CONROD  2201151 25003   25007   7075    0.119
$   LOWER SKINS
CSHEAR  2200671 0252024 22721   25021   25001   22701
CONROD  2206701 22721   25021   2024    0.097
CONROD  2206702 22701   25001   2024    0.097
CONROD  2206703 22721   22701   2024    0.280
CONROD  2206704 25021   25001   2024    0.280
CSHEAR  2200672 0252024 22701   25001   25003   22703
CONROD  2206711 22701   25001   2024    0.084
CONROD  2206712 22703   25003   2024    0.084
CONROD  2206713 22701   22703   2024    0.280
CONROD  2206714 25001   25003   2024    0.280
CSHEAR  2590011 0242024 22703   22707   25007   25003
CONROD  2590101 22703   25003   2024    0.172
CONROD  2590102 22707   25007   2024    0.172
CONROD  2590103 22703   22707   2024    0.269
CONROD  2590104 25003   25007   2024    0.269
CSHEAR  2201032 0252024 22707   25007   25009   22709
CONROD  2200301 22707   25007   2024    0.078
CONROD  2200302 22709   25009   2024    0.078
CONROD  2200303 22707   22709   2024    0.280
CONROD  2200304 25007   25009   2024    0.280
CSHEAR  2201031 0252024 22729   25029   25009   22709
CONROD  2200311 22709   25009   2024    0.097
CONROD  2200312 22729   25029   2024    0.097
CONROD  2200313 22709   22729   2024    0.280
CONROD  2200314 25009   25029   2024    0.280
$
$                       LOWER SKINS AND AXIAL MEMBERS
$                         STA 250.00 TO STA 268.25
$
$   AXIAL MEMBERS
CONROD  2201171 25003   26801   7075    0.116
CONROD  2201191 25007   26809   7075    0.116
CONROD  1330101 26821   26801   7075    0.055
CONROD  1330102 26801   26809   7075    0.055
CONROD  1330103 26809   26829   7075    0.055
$   LOWER SKINS
CTRMEM  2200675 0252024 25021   26821   25001
CTRMEM  2200678 0252024 25001   26821   26801
CTRMEM  2200677 0252024 25001   26801   25003
CSHEAR  1201211 0322024 25003   25007   26809   26801
CONROD  1202101 25003   26801   2024    0.208
CONROD  1202102 25007   26809   2024    0.208
CONROD  1202103 25003   25007   2024    0.292
CONROD  1202104 26801   26809   2024    0.292
CTRMEM  2201037 0252024 25007   26809   25009
CTRMEM  2201036 0252024 25009   26809   26829
CTRMEM  2201035 0252024 25029   26829   25009
$
$                       LOWER SKINS AND AXIAL MEMBERS
$                         STA 268.25 TO BS  41.32
$
$   AXIAL MEMBERS
CONROD  1330104 26821   29821   7075    0.055
CONROD  1330105 26829   29829   7075    0.055
CONROD  1330106 29821   29805   7075    0.055
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CONROD   1330107 29905    29829    7075     0.055
$    LOWER SKINS
CTRMEM   1330011 0250057 26821    26801    29921
CTRMEM   1330012 0250057 26801    29921    29905
CTRMEM   1330013 0250057 26801    26809    29905
CTRMEM   1330014 0250057 26809    29905    29929
CTRMEM   1330015 0250057 26809    26829    29929
$
$                                NOSE STRUCTURE
$                              STA  33.00 TO STA  46.00
$
$    BULKHEAD DOUBLERS
CONROD   5850751  3341     3331     2024     0.035
CONROD   5850752  3331     3339     2024     0.035
CONROD   5850753  3339     3349     2024     0.035
CONROD   5850754  3349     3341     2024     0.035
$    DOUBLERS
CONROD   5850771  3331     4631     2024     0.057
CONROD   5850772  3339     4639     2024     0.057
$    INNER SKIN    209-030-585-089     .010 GLASS FABRIC
CTRMEM   5858901 0100076  3341     4661     4641
CTRMEM   5858902 0100076  3341     4641     4631
CTRMEM   5858903 0100076  3341     4631     3331
CTRMEM   5858904 0100076  3331     4631     4633
CODMEM   5858905 0100076  3331     4633     1001     3339
CTRMEM   5858906 0100076  3339     4639     1001
CTRMEM   5858907 0100076  3349     4639     3339
CTRMEM   5858908 0100076  3349     4649     4639
CTRMEM   5858909 0100076  3349     4669     4649
$    INTERIOR SKIN    209-030-585-005     .010 GLASS FABRIC
CTRMEM   5850501 0100076  3341     4661     4641
CTRMEM   5850502 0100076  3341     4641     4631
CTRMEM   5850503 0100076  3341     4631     3331
CTRMEM   5850504 0100076  3331     4631     4633
CODMEM   5850505 0100076  3331     4633     1001     3339
CTRMEM   5850506 0100076  3339     4639     1001
CTRMEM   5850507 0100076  3349     4639     3339
CTRMEM   5850508 0100076  3349     4649     4639
CTRMEM   5850509 0100076  3349     4669     4649
$    OUTER SKIN    209-030-585-003     .010 GLASS FABRIC
CTRMEM   5850301 0100076  3341     4661     4641
CTRMEM   5850302 0100076  3341     4641     4631
CTRMEM   5850303 0100076  3341     4631     3331
CTRMEM   5850304 0100076  3331     4631     4633
CODMEM   5850305 0100076  3331     4633     1001     3339
CTRMEM   5850306 0100076  3339     4639     1001
CTRMEM   5850307 0100076  3349     4639     3339
CTRMEM   5850308 0100076  3349     4649     4639
CTRMEM   5850309 0100076  3349     4669     4649
$    BATTERY SHELF
CODMEM   5950211 0122024  3331     4631     4639     3339
CODMEM   5950271 0202024  3331     4631     4639     3339
CONROD   5810351  3331     4631     2024     0.054
CONROD   5810251  3339     4639     2024     0.054
$    BULKHEAD DOUBLERS
CONROD   5850811  4661     4641     2024     0.053
CONROD   5850812  4641     4631     2024     0.053
CONROD   5850813  4631     4633     2024     0.053
CONROD   5850814  4633     1001     2024     0.053
CONROD   5850815  1001     4639     2024     0.053
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CONROD   5850816  4639     4649     2024     0.053
CONROD   5850817  4649     4669     2024     0.053
CONROD   5850818  4669     4661     2024     0.053
$
$                                NOSE STRUCTURE
$                              STA  46.00 TO STA  61.25
$
$    DOUBLERS
CONROD   5850851  4641     6161     2024     0.053
CONROD   5850852  4649     6169     2024     0.053
CONROD   5850790  4633     6131     2024     0.0585
CONROD   5850791  1001     6139     2024     0.0585
$    INNER SKIN    209-030-585-089     .010 GLASS FABRIC
CODMEM   5858921 0100076  4661     6171     6179     4669
CTRMEM   5858922 0100076  4661     6171     6161
CTRMEM   5858923 0100076  4661     6161     4641
CTRMEM   5858924 0100076  6161     6141     4641
CTRMEM   5858925 0100076  4641     6141     4631
CTRMEM   5858926 0100076  6141     6131     4631
CTRMEM   5858927 0100076  4631     6131     4633
CTRMEM   5858928 0100076  6131     6123     4633
CODMEM   5858929 0100076  4633     6123     6127     1001
CTRMEM   5858930 0100076  6139     6127     1001
CTRMEM   5858931 0100076  4639     6139     1001
CTRMEM   5858932 0100076  6149     6139     4639
CTRMEM   5858933 0100076  4649     6149     4639
CTRMEM   5858934 0100076  6169     6149     4649
CTRMEM   5858935 0100076  4669     6169     4649
CTRMEM   5858936 0100076  4669     6179     6169
$    INTERIOR SKIN    209-030-585-005     .010 GLASS FABRIC
CODMEM   5850521 0100076  4661     6171     6179     4669
CTRMEM   5850522 0100076  4661     6171     6161
CTRMEM   5850523 0100076  4661     6161     4641
CTRMEM   5850524 0100076  6161     6141     4641
CTRMEM   5850525 0100076  4641     6141     4631
CTRMEM   5850526 0100076  6141     6131     4631
CTRMEM   5850527 0100076  4631     6131     4633
CTRMEM   5850528 0100076  6131     6123     4633
CODMEM   5850529 0100076  4633     6123     6127     1001
CTRMEM   5850530 0100076  6139     6127     1001
CTRMEM   5850531 0100076  4639     6139     1001
CTRMEM   5850532 0100076  6149     6139     4639
CTRMEM   5850533 0100076  4649     6149     4639
CTRMEM   5850534 0100076  6169     6149     4649
CTRMEM   5850535 0100076  4669     6169     4649
CTRMEM   5850536 0100076  4669     6179     6169
$    OUTER SKIN    209-030-585-003     .010 GLASS FABRIC
CODMEM   5850321 0100076  4661     6171     6179     4669
CTRMEM   5850322 0100076  4661     6171     6161
CTRMEM   5850323 0100076  4661     6161     4641
CTRMEM   5850324 0100076  6161     6141     4641
CTRMEM   5850325 0100076  4641     6141     4631
CTRMEM   5850326 0100076  6141     6131     4631
CTRMEM   5850327 0100076  4631     6131     4633
CTRMEM   5850328 0100076  6131     6123     4633
CODMEM   5850329 0100076  4633     6123     6127     1001
CTRMEM   5850330 0100076  6139     6127     1001
CTRMEM   5850331 0100076  4639     6139     1001
CTRMEM   5850332 0100076  6149     6139     4639
CTRMEM   5850333 0100076  4649     6149     4639
```

```
CTRMEM   5850334 0100076   6169     6149     4649
CTRMEM   5850335 0100076   4868     6169     4649
CTRMEM   5850336 0100076   4669     6179     6169
$    FRAME
CTRMEM   5940041 0322024   4641     6161     6163
CTRMEM   5940171 0322024   4649     6167     6169
$    BULKHEAD DOUBLERS
CONROD   5850871   6179     6171   2024     0.044
CONROD   5850872   6171     6161   2024     0.044
CONROD   5850873   6169     6179   2024     0.044
CONROD   5850792   6161     6141   2024     0.034
CONROD   5850793   6141     6131   2024     0.034
CONROD   5850794   6131     6123   2024     0.034
CONROD   5850795   6123     6127   2024     0.034
CONROD   5850796   6127     6139   2024     0.034
CONROD   5850797   6139     6149   2024     0.034
CONROD   5850798   6149     6169   2024     0.034
$
$                                  NOSE SUBASSEMBLY
$                                       * * *
$
$                                  STA  33.00 BULKHEAD
$                                    209-030-580-057
$
$    FRAMES AND DOUBLERS
CONROD   333141   3331     3341   2024     0.092
CONROD   333949   3339     3349   2024     0.092
CONROD   333931   3331     3339   2024     0.092
CONROD   334149   3341     3349   2024     0.092
$
$                                  STA  46.00 BULKHEAD
$                                    209-030-582-053
$
$    SHEAR WEBS
CODMEM   0463137 0252024 04631    04639    01001    04633
CODMEM   0463149 0252024 04631    04641    04649    04639
CODMEM   0464169 0252024 04641    04661    04669    04649
$
$                                  FORWARD FUSELAGE SUBASSEMBLY
$                                       * * *
$
$                                  STA  61.25 BULKHEAD
$                                    209-030-101-001
$                                    209-030-510-007
$
$    FRAMES AND DOUBLERS
CONROD   613123   6123     6131   2024     0.030
CONROD   613141   6131     6141   2024     0.064
CONROD   614161   6141     6161   2024     0.064
CONROD   616171   6161     6171   2024     0.282
CONROD   613343   6133     6143   2024     0.030
CONROD   614363   6143     6163   2024     0.030
CONROD   616371   6163     6171   2024     0.012
CONROD   613747   6137     6147   2024     0.030
CONROD   614767   6147     6167   2024     0.030
CONROD   617967   6167     6179   2024     0.012
CONROD   612739   6127     6139   2024     0.030
CONROD   613949   6139     6149   2024     0.084
CONROD   614969   6149     6169   2024     0.084
CONROD   616979   6169     6179   2024     0.282
```

```
CONROD   612327   6123     6127   2024     0.108
CONROD   613337   6133     6137   2024     0.055
CONROD   617179   6171     6179   2024     0.282
$    SHEAR WEBS
CTRMEM   612331 0402024   6123     6131     6133
CODMEM   612337 0402024   6123     6133     6137     6127
CTRMEM   612737 0402024   6127     6137     6139
CODMEM   613143 0402024   6131     6141     6143     6133
CODMEM   613749 0402024   6137     6147     6149     6139
CODMEM   614163 0402024   6141     6161     6163     6143
CODMEM   614769 0402024   6147     6167     6169     6149
CTRMEM   617161 0322024   6161     6171     6163
CTRMEM   616779 0322024   6167     6179     6169
$
$                                  STA  93.00 BULKHEAD
$                                    209-030-102-323
$
$    FRAMES AND DOUBLERS
CONROD   930307   9303     9307   2024     0.095
CONROD   931317   9313     9317   2024     0.151
CONROD   933133   9331     9333   2024     0.397
CONROD   933337   9333     1003   2024     0.167
CONROD   933739   1003     9339   2024     0.261
CONROD   934143   9341     9343   2024     0.242
CONROD   934347   9343     9347   2024     0.374
CONROD   934749   9347     9349   2024     0.357
CONROD   936143   9361     9343   2024     0.191
CONROD   936163   9361     9363   2024     0.194
CONROD   936769   9367     9369   2024     0.194
CONROD   937173   9371     9373   2024     0.202
CONROD   937377   9373     9377   2024     0.188
CONROD   937779   9377     9379   2024     0.202
CONROD   930313   9303     9313   2024     0.051
CONROD   933113   9313     9331   2024     0.080
CONROD   933141   9331     9341   2024     0.333
CONROD   934161   9341     9361   2024     0.333
CONROD   936171   9361     9371   2024     0.092
CONROD   931333   9313     9333   7075     0.209
CONROD   933343   9333     9343   7075     0.333
CONROD   934363   9343     9363   7075     0.242
CONROD   936373   9363     9373   7075     0.100
CONROD   930717   9307     9317   2024     0.051
CONROD   933717   9317     1003   7075     0.209
CONROD   933747   1003     9347   7075     0.510
CONROD   934767   9347     9367   7075     0.374
CONROD   936777   9367     9377   7075     0.100
CONROD   931739   9317     9339   2024     0.080
CONROD   933949   9339     9349   2024     0.314
CONROD   934969   9349     9369   2024     0.188
CONROD   936979   9369     9379   2024     0.092
$    SHEAR WEBS
CODMEM   930317 0252024   9303     9313     9317     9307
CTRMEM   931331 0242024   9313     9331     9333
CODMEM   931337 0242024   9313     9333     1003     9317
CTRMEM   931737 0242024   9317     1003     9339
CODMEM   933143 0857075   9331     9341     9343     9333
CTRMEM   934361 0402024   9343     9361     9363
CODMEM   934367 0242024   9343     9363     9367     9347
CODMEM   934769 0402024   9347     9367     9369     9349
CODMEM   936173 0492024   9361     9371     9373     9363
```

```
CQDMEM    936377 0242024  9363     9373     9377     9367
CQDMEM    936779 0492024  9367     9377     9379     9369
$
$                                STA 138.70 BULKHEAD
$                                  209-030-103-159
$
$    FRAMES AND DOUBLERS
CONROD    1380103 13801    13803    2024     0.078
CONROD    1380307 13803    13807    7075     0.184
CONROD    1380709 13807    13809    2024     0.078
CONROD    1382123 13821    13823    2024     0.070
CONROD    1382327 13823    13827    7075     0.130
CONROD    1382729 13827    13829    2024     0.070
CONROD    1383133 13831    13833    7075     0.168
CONROD    1383337 13833    1004     7075     0.168
CONROD    1383739 1004     13839    7075     0.224
CONROD    1384143 13841    13843    2024     0.056
CONROD    1384347 13843    13847    2024     0.108
CONROD    1386163 13861    13863    2024     0.050
CONROD    1386769 13867    13869    2024     0.047
CONROD    1382101 13801    13821    2024     0.078
CONROD    1382131 13821    13831    2024     0.057
CONROD    1383141 13831    13841    2024     0.104
CONROD    1384161 13841    13861    2024     0.104
CONROD    1380323 13803    13823    7075     0.863
CONROD    1382333 13823    13833    7075     0.116
CONROD    1383343 13833    13843    7075     0.244
CONROD    1384363 13843    13863    7075     0.128
CONROD    1382707 13807    13827    7075     0.116
CONROD    1382737 13827    1004     7075     0.116
CONROD    1383747 1004     13847    7075     0.116
CONROD    1383748 1004     13848    7075     0.128
CONROD    1384867 13848    13867    7075     0.128
CONROD    1380929 13809    13829    2024     0.078
CONROD    1382939 13829    13839    2024     0.061
CONROD    1383949 13839    13849    2024     0.104
CONROD    1384969 13849    13869    2024     0.104
$    SHEAR WEBS
CTRMEM    1380121 0402024 13801    13821    13823
CTRMEM    1380123 0402024 13801    13823    13803
CQDMEM    1380327 0402024 13803    13823    13827    13807
CTRMEM    1380727 0402024 13807    13827    13809
CTRMEM    1380827 0402024 13809    13827    13829
CQDMEM    1382133 0402024 13821    13831    13833    13823
CQDMEM    1382337 0402024 13823    13833    1004     13827
CQDMEM    1382739 0402024 13827    1004     13839    13829
CQDMEM    1383347 0402024 13833    13843    13847    1004
CQDMEM    1383749 0322024 1004     13848    13849    13839
CQDMEM    1384163 0322024 13841    13861    13863    13843
CQDMEM    1384869 0322024 13848    13867    13869    13849
$
$                          CENTER FUSELAGE SUBASSEMBLY
$                                    * * *
$
$                                STA 148.50 BULKHEAD
$                                  209-030-104-011
$
$    FRAMES AND DOUBLERS
CONROD    1480103 14801    14803    7075     0.130
CONROD    1480307 14803    14807    7075     0.130
```

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CONROD    1480709 14807    14809    7075     0.130
CONROD    1482123 14821    14823    7075     0.293
CONROD    1482327 14823    14827    7075     0.316
CONROD    1482729 14827    14829    7075     0.293
CONROD    1483133 14831    14833    7075     0.155
CONROD    1483337 14833    14837    7075     0.265
CONROD    1483739 14837    14839    7075     0.155
CONROD    1484347 14843    14847    7075     0.152
CONROD    1486163 14861    14863    7075     0.277
CONROD    1486367 14863    14867    7075     0.249
CONROD    1486769 14867    14869    7075     0.277
CONROD    1488183 14881    14883    7075     0.155
CONROD    1488387 14883    14887    7075     0.155
CONROD    1488789 14887    14889    7075     0.155
CONROD    1482101 14801    14821    7075     0.130
CONROD    1482131 14821    14831    7075     0.130
CONROD    1483141 14831    14841    7075     0.130
CONROD    1484161 14841    14861    7075     0.130
CONROD    1486181 14861    14881    7075     0.121
CONROD    1480323 14803    14823    7075     0.234
CONROD    1482333 14823    14833    7075     0.284
CONROD    1483343 14833    14843    7075     0.334
CONROD    1484363 14843    14863    7075     0.334
CONROD    1482707 14807    14827    7075     0.234
CONROD    1482737 14827    14837    7075     0.292
CONROD    1483747 14837    14847    7075     0.342
CONROD    1484767 14847    14867    7075     0.342
CONROD    1480929 14809    14829    7075     0.130
CONROD    1482939 14829    14839    7075     0.130
CONROD    1483949 14839    14849    7075     0.130
CONROD    1484969 14849    14869    7075     0.130
CONROD    1486989 14869    14889    7075     0.121
$    SHEAR WEBS
CTRMEM    1480121 0727075 14801    14821    14823
CTRMEM    1480123 0727075 14801    14823    14803
CQDMEM    1480327 0727075 14803    14823    14827    14807
CTRMEM    1480727 0727075 14807    14827    14809
CTRMEM    1480927 0727075 14809    14827    14829
CQDMEM    1482133 0327075 14821    14831    14833    14823
CQDMEM    1482337 0169046 14823    14833    14837    14827
CQDMEM    1482739 0327075 14827    14837    14839    14829
CQDMEM    1483143 0327075 14831    14841    14843    14833
CQDMEM    1483347 0169046 14833    14843    14847    14837
CQDMEM    1483749 0327075 14837    14847    14849    14839
CQDMEM    1484163 0327075 14841    14861    14863    14843
CQDMEM    1484367 0169046 14843    14863    14867    14847
CQDMEM    1484769 0327075 14847    14867    14869    14849
CQDMEM    1486183 0227075 14861    14881    14883    14863
CQDMEM    1486387 0227075 14863    14883    14887    14867
CQDMEM    1486789 0227075 14867    14887    14889    14869
$
$                                STA 156.41 BULKHEAD
$                                  209-030-105-001
$
$    SHEAR WEBS
CTRMEM    1560121 0327075 15601    15621    15623
CTRMEM    1560123 0327075 15601    15623    15603
CTRMEM    1560323 0327075 15603    15623    15625
CTRMEM    1560325 0327075 15603    15625    15607
CTRMEM    1560725 0327075 15807    15625    15627
```

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CTRMEM   1860727 0327075 18607    18627    18609
CTRMEM   1860927 0327075 18609    18627    18629
$
$                                STA 186.25 BULKHEAD
$                                  209-030-107-009
$
$    FRAMES AND DOUBLERS
CONROD   1860103 18601   18603    2024     0.123
CONROD   1860307 18603   18607    2024     0.123
CONROD   1860709 18607   18609    2024     0.123
CONROD   1862123 18621   18623    7075     0.278
CONROD   1862325 18623   18625    7075     0.278
CONROD   1862527 18625   18627    7075     0.278
CONROD   1862729 18627   18629    7075     0.278
CONROD   1868183 18681   18683    7075     0.328
CONROD   1868385 18683   18685    7075     0.328
CONROD   1868587 18685   18687    7075     0.328
CONROD   1868789 18687   18689    7075     0.328
CONROD   1862101 18601   18621    2024     0.123
CONROD   1862131 18621   18631    2014     0.652
CONROD   1863141 18631   18641    2014     0.652
CONROD   1864151 18641   18651    2014     0.548
CONROD   1865156 18651   18656    2014     0.548
CONROD   1865661 18656   18661    2014     0.548
CONROD   1866181 18661   18681    2024     0.203
CONROD   1860929 18609   18629    2024     0.123
CONROD   1862939 18629   18639    2014     0.487
CONROD   1863949 18639   18649    2014     0.487
CONROD   1864954 18649   18654    2014     0.588
CONROD   1865459 18654   18659    2014     0.588
CONROD   1865969 18659   18669    2014     0.588
CONROD   1866989 18669   18689    2024     0.203
$    SHEAR WEBS
CTRMEM   1860121 0129046 18601    18621    18623
CTRMEM   1860123 0129046 18601    18623    18603
CTRMEM   1860323 0129046 18603    18623    18625
CTRMEM   1860325 0129046 18603    18625    18607
CTRMEM   1860725 0129046 18607    18625    18627
CTRMEM   1860727 0129046 18607    18627    18609
CTRMEM   1860927 0129046 18609    18627    18629
CODMEM   1862133 0129046 18621    18631    18633    18623
CODMEM   1862335 0129046 18623    18633    18635    18625
CODMEM   1862537 0129046 18625    18635    18637    18627
CODMEM   1862739 0129046 18627    18637    18639    18629
CTRMEM   1863141 0129046 18631    18641    18642
CODMEM   1863143 0129046 18631    18642    18643    18633
CTRMEM   1863343 0129046 18633    18643    18644
CODMEM   1863345 0129046 18633    18644    18645    18635
CODMEM   1863546 0129046 18635    18645    18646    18637
CTRMEM   1863746 0129046 18637    18646    18647
CODMEM   1863748 0129046 18637    18647    18648    18639
CTRMEM   1863948 0129046 18639    18648    18649
CODMEM   1865662 0329046 18656    18661    18662    18657
CODMEM   1865157 0329046 18651    18656    18657    18652
CODMEM   1864152 0329046 18641    18651    18652    18642
CTRMEM   1865762 0329046 18657    18662    18663
CODMEM   1865263 0329046 18652    18657    18663    18643
CTRMEM   1864252 0329046 18642    18652    18643
CODMEM   1864364 0329046 18643    18663    18664    18644
CODMEM   1864465 0329046 18644    18664    18665    18645
```

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CODMEM   1864586 0329046 18645    18665    18666    18646
CODMEM   1864687 0329046 18646    18666    18667    18647
CTRMEM   1865887 0329046 18658    18667    18668
CODMEM   1864758 0329046 18647    18667    18658    18653
CTRMEM   1864753 0329046 18647    18653    18648
CODMEM   1865869 0329046 18658    18668    18669    18659
CODMEM   1865359 0329046 18653    18668    18659    18654
CODMEM   1864854 0329046 18648    18653    18654    18649
CTRMEM   1866181 0959046 18661    18681    18662
CODMEM   1866283 0959046 18662    18681    18683    18663
CODMEM   1866385 0129046 18683    18683    18685    18664
CTRMEM   1866485 0129046 18664    18685    18665
CTRMEM   1866585 0129046 18665    18685    18666
CODMEM   1866687 0129046 18666    18685    18687    18667
CODMEM   1866789 0959046 18667    18687    18689    18668
CTRMEM   1866889 0959046 18668    18689    18669
$
$                          FORWARD WING CARRY-THRU SPAR
$                              209-030-140
$
$    FRAMES AND DOUBLERS
CBAR     1874142 1874142 18841    18842    0.0      1.0      1.0      1
PBAR     1874142 2014    1.828    0.087    0.574    0.26
CBAR     1874243 1874243 18842    18843    0.0      1.0      1.0      1        1874243
+1874243       6
PBAR     1874243 2014    2.133    0.537    1.937    0.453
CBAR     1874344 1874344 18843    18844    0.0      1.0      1.0      1
PBAR     1874344 2014    0.9275   0.0      0.407    0.0
CBAR     1874445 1874445 18844    18845    0.0      1.0      1.0      1
PBAR     1874445 2014    0.9275   0.0      0.407    0.0
CBAR     1874546 1874546 18845    18846    0.0      1.0      1.0      1
PBAR     1874546 2014    0.9275   0.0      0.407    0.0
CBAR     1874647 1874647 18846    18847    0.0      1.0      1.0      1
PBAR     1874647 2014    0.9275   0.0      0.407    0.0
CBAR     1874748 1874748 18847    18848    0.0      1.0      1.0      1        1874748
+1874748       6
PBAR     1874748 2014    2.133    0.537    1.937    0.453
CBAR     1874849 1874849 18848    18849    0.0      1.0      1.0      1
PBAR     1874849 2014    1.828    0.087    0.574    0.26
CBAR     1875152 1875152 18851    18852    0.0      1.0      1.0      1
PBAR     1875152 2014    1.5      0.0703   0.5      0.215
CBAR     1875243 1875243 18852    18843    0.0      1.0      1.0      1        1875243
+1875243       456
PBAR     1875243 2014    1.5      0.0703   0.5      0.215
CBAR     1874753 1874753 18847    18853    0.0      1.0      1.0      1        1874753
+1874753 456
PBAR     1874753 2014    1.5      0.0703   0.5      0.215
CBAR     1875354 1875354 18853    18854    0.0      1.0      1.0      1
PBAR     1875354 2014    1.5      0.0703   0.5      0.215
CBAR     1875857 1875857 18856    18857    0.0      1.0      1.0      1
PBAR     1876857 2014    1.5      0.0703   0.5      0.215
CBAR     1875763 1875763 18857    18863    0.0      1.0      1.0      1        1875763
+1875763       456
PBAR     1875763 2014    1.5      0.0703   0.5      0.215
CBAR     1876758 1876758 18867    18858    0.0      1.0      1.0      1        1876758
+1876758 456
PBAR     1876758 2014    1.5      0.0703   0.5      0.215
CBAR     1875859 1875859 18858    18859    0.0      1.0      1.0      1
PBAR     1875859 2014    1.5      0.0703   0.5      0.215
CBAR     1876162 1876162 18861    18862    0.0      1.0      1.0      1
```

```
PBAR    1876162 2014    1.828   0.087   0.574   0.26
CBAR    1876263 1876263 18662   18663   0.0     1.0     1.0     1       1876263
+1876263        6
PBAR    1876263 2014    2.133   0.537   1.937   0.453
CBAR    1876364 1876364 18663   18664   0.0     1.0     1.0     1
PBAR    1876364 2014    1.1325  0.0     0.497   0.0
CBAR    1876465 1876465 18664   18665   0.0     1.0     1.0     1
PBAR    1876465 2014    1.036   0.0     0.403   0.0
CBAR    1876566 1876566 18665   18666   0.0     1.0     1.0     1
PBAR    1876566 2014    1.036   0.0     0.403   0.0
CBAR    1876667 1876667 18666   18667   0.0     1.0     1.0     1
PBAR    1876667 2014    1.1325  0.0     0.497   0.0
CBAR    1876768 1876768 18667   18668   0.0     1.0     1.0     1       1876768
+1876768  6
PBAR    1876768 2014    2.133   0.537   1.937   0.453
CBAR    1876869 1876869 18668   18669   0.0     1.0     1.0     1
PBAR    1876869 2014    1.828   0.087   0.574   0.26
CBAR    1874151 1874151 18641   18651   0.0     1.0     1.0     1
PBAR    1874151 2014    0.5688  0.00074 0.981   0.003
CBAR    1875156 1875156 18651   18656   0.0     1.0     1.0     1
PBAR    1875156 2014    0.8575  0.0038  1.07    0.015
CBAR    1875257 1875257 18652   18657   0.0     1.0     1.0     1
PBAR    1875257 2014    0.512   0.0027  0.179   0.01
CBAR    1874363 1874363 18643   18663   0.0     1.0     1.0     1
PBAR    1874363 2014    0.512   0.0     0.179   0.0
CONROD  1874464 18644   18664   2014    0.68125
CONROD  1874666 18646   18666   2014    0.68125
CBAR    1874767 1874767 18647   18667   0.0     1.0     1.0     1
PBAR    1874767 2014    0.512   0.0     0.179   0.0
CBAR    1875358 1875358 18653   18658   0.0     1.0     1.0     1
PBAR    1875358 2014    0.512   0.0027  0.179   0.01
CBAR    1874954 1874954 18649   18654   0.0     1.0     1.0     1
PBAR    1874954 2014    0.5688  0.00074 0.981   0.003
CBAR    1875459 1875459 18654   18659   0.0     1.0     1.0     1
PBAR    1875459 2014    0.8575  0.0038  1.07    0.015
$    SHEAR WEBS
CSHEAR  1874251 1252014 18641   18651   18652   18642
CONROD  1874241 18841   18642   2014    0.0456                                  WEB
CONROD  1875242 18642   18652   2014    0.125                                   WEB
CONROD  1875141 18641   18651   2014    0.125                                   WEB
CONROD  1875251 18651   18652   2014    0.1441                                  WEB
CSHEAR  1875256 1252014 18651   18656   18657   18652
CONROD  1875756 18856   18657   2014    0.0985                                  WEB
CONROD  1875651 18851   18656   2014    0.125                                   WEB
CONROD  1875752 18852   18657   2014    0.342                                   WEB
CTRMEM  1875763 1252014 18657   18662   18663
CSHEAR  1874357 1252014 18652   18657   18663   18643
CONROD  1876357 18657   18663   2014    0.147                                   WEB
CONROD  1874352 18652   18643   2014    0.147                                   WEB
CONROD  1876343 18643   18663   2014    0.217                                   WEB
CTRMEM  1874352 1252014 18642   18652   18643
CTRMEM  1875868 1252014 18658   18668   18667
CSHEAR  1875847 1252014 18653   18658   18667   18647
CONROD  1876747 18647   18667   2014    0.217                                   WEB
CONROD  1875347 18647   18653   2014    0.147                                   WEB
CONROD  1875867 18667   18658   2014    0.147                                   WEB
CTRMEM  1874853 1252014 18647   18648   18653
CSHEAR  1875953 1252014 18654   18659   18658   18653
CONROD  1875958 18658   18659   2014    0.0985                                  WEB
CONROD  1875853 18653   18658   2014    0.342                                   WEB
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CONROD  1875954 18654   18659   2014    0.125                                   WEB
CSHEAR  1875448 1252014 18649   18654   18653   18648
CONROD  1875453 18653   18654   2014    0.1441                                  WEB
CONROD  1875449 18649   18654   2014    0.125                                   WEB
CONROD  1875348 18648   18653   2014    0.125                                   WEB
CONROD  1874948 18648   18649   2014    0.0456                                  WEB
$
$                       LUGS / FORWARD CARRY-THRU SPAR
$                            STA 186.25
$
CBAR    1864100 1864100 18641   61918   0.0     1.0     1.0     1       F6 LUGR
PBAR    1864100 2014    0.3672  0.0458  0.433   0.146
CBAR    1865100 1865100 18651   61915   0.0     1.0     1.0     1       F4 LUGR
PBAR    1865100 2014    0.4237  0.0703  0.5     0.215
CBAR    1865600 1865600 18656   61914   0.0     1.0     1.0     1       F3 LUGR
PBAR    1865600 2014    0.4237  0.0703  0.5     0.215
CBAR    1868100 1866100 18661   61912   0.0     1.0     1.0     1       F1 LUGR
PBAR    1868100 2014    0.4237  0.0703  0.5     0.215
CBAR    1864900 1864900 18649   71918   0.0     1.0     1.0     1       F6 LUGL
PBAR    1864900 2014    0.3672  0.0458  0.433   0.146
CBAR    1865400 1865400 18654   71916   0.0     1.0     1.0     1       F4 LUGL
PBAR    1865400 2014    0.4237  0.0703  0.5     0.215
CBAR    1865900 1865900 18659   71914   0.0     1.0     1.0     1       F3 LUGL
PBAR    1865900 2014    0.4237  0.0703  0.5     0.215
CBAR    1868900 1866900 18669   71912   0.0     1.0     1.0     1       F1 LUGL
PBAR    1866900 2014    0.4237  0.0703  0.5     0.215
$
$                       CENTER WING CARRY-THRU SPAR
$                            209-030-141
$
$    FRAMES AND DOUBLERS
CBAR    1974142 1974142 19741   19742   0.0     1.0     1.0     1
PBAR    1974142 2014    2.453   0.965   10.405  0.497
CBAR    1974243 1974243 19742   19743   0.0     1.0     1.0     1       1974243
+1974243        6
PBAR    1974243 2014    1.65    0.0495  1.04    0.171
CBAR    1974345 1974345 19743   19745   0.0     1.0     1.0     1
PBAR    1974345 2014    1.65    0.0     1.04    0.0
CBAR    1974547 1974547 19745   19747   0.0     1.0     1.0     1
PBAR    1974547 2014    1.65    0.0     1.04    0.0
CBAR    1974748 1974748 19747   19748   0.0     1.0     1.0     1       1974748
+1974748  6
PBAR    1974748 2014    1.65    0.0495  1.04    0.171
CBAR    1974849 1974849 19748   19749   0.0     1.0     1.0     1
PBAR    1974849 2014    2.453   0.965   10.405  0.497
CBAR    1975152 1975152 19751   19752   0.0     1.0     1.0     1
PBAR    1975152 2014    1.283   0.113   2.156   0.0749
CBAR    1975859 1975859 19758   19759   0.0     1.0     1.0     1
PBAR    1975859 2014    1.283   0.113   2.156   0.0749
CBAR    1976162 1976162 19761   19762   0.0     1.0     1.0     1
PBAR    1976182 2014    2.018   0.437   13.573  0.174
CBAR    1976263 1976263 19762   19763   0.0     1.0     1.0     1       1976263
+1976263        6
PBAR    1976263 2014    2.0625  0.0867  1.3     0.32
CBAR    1976365 1976365 19763   19765   0.0     1.0     1.0     1
PBAR    1976365 2014    2.0625  0.0     1.3     0.0
CBAR    1976567 1976567 19765   1006    0.0     1.0     1.0     1
PBAR    1976567 2014    2.0625  0.0     1.3     0.0
CBAR    1976768 1976768 1006    19768   0.0     1.0     1.0     1       1976768
+1976768  6
```

```
PBAR     1976768 2014     2.0625   0.0867   1.3      0.32
CBAR     1976869 1976869  19768    19769    0.0      1.0      1.0      1
PBAR     1976869 2014     2.019    0.437    13.573   0.174
CBAR     1974151 1974151  19741    19751    0.0      1.0      1.0      1
PBAR     1974151 2014     1.845    0.0258   3.113    0.103
CBAR     1975161 1975161  19751    19761    0.0      1.0      1.0      1
PBAR     1975161 2014     1.845    0.0258   3.113    0.103
CBAR     1974252 1974252  19742    19752    0.0      1.0      1.0      1
PBAR     1974252 2014     0.825    0.0062   0.52     0.023
CBAR     1975262 1975262  19752    19762    0.0      1.0      1.0      1
PBAR     1975262 2014     0.825    0.0062   0.52     0.023
CBAR     1974363 1974363  19743    19763    0.0      1.0      1.0      1
PBAR     1974363 2014     0.825    0.0      0.52     0.0
CONROD   1974565 19745    19765    2014     0.825
CBAR     1974767 1974767  19747    1006     0.0      1.0      1.0      1
PBAR     1974767 2014     0.825    0.0      0.52     0.0
CBAR     1974858 1974858  19748    19758    0.0      1.0      1.0      1
PBAR     1974858 2014     0.825    0.0062   0.52     0.023
CBAR     1975868 1975868  19758    19768    0.0      1.0      1.0      1
PBAR     1975868 2014     0.825    0.0062   0.52     0.023
CBAR     1974959 1974959  19749    19759    0.0      1.0      1.0      1
PBAR     1974959 2014     1.845    0.0258   3.113    0.103
CBAR     1975969 1975969  19759    19769    0.0      1.0      1.0      1
PBAR     1975969 2014     1.845    0.0258   3.113    0.103
$    SHEAR WEBS
CSHEAR   1974152 2002014  19741    19751    19752    19742
CONROD   1974241 19741    19742    2014     0.247                              WEB
CONROD   1975251 19751    19752    2014     0.4117                             WEB
CSHEAR   1975162 4002014  19751    19761    19762    19752
CONROD   1976261 19761    19762    2014     0.1647                             WEB
CSHEAR   1974352 2002014  19742    19752    19763    19743
CONROD   1974342 19742    19743    2014     0.288                              WEB
CONROD   1976352 19752    19763    2014     0.288                              WEB
CONROD   1975867 1006     19758    2014     0.288                              WEB
CTRMEM   1975263 2002014  19752    19762    19763
CSHEAR   1974365 2002014  19743    19763    19765    19745
CONROD   1974543 19743    19745    2014     0.3293                             WEB
CONROD   1976563 19763    19765    2014     0.3293                             WEB
CSHEAR   1974567 2002014  19747    1006     19765    19745
CONROD   1974745 19745    19747    2014     0.3293                             WEB
CONROD   1976765 19765    1006     2014     0.3293                             WEB
CSHEAR   1974758 2002014  19748    19758    1006     19747
CONROD   1974847 19747    19748    2014     0.288                              WEB
CTRMEM   1975867 2002014  19758    19768    1006
CSHEAR   1974859 2002014  19749    19759    19758    19748
CONROD   1974948 19748    19749    2014     0.247                              WEB
CONROD   1975958 19758    19759    2014     0.4117                             WEB
CSHEAR   1975869 4002014  19759    19769    19768    19758
CONROD   1976968 19768    19769    2014     0.1647                             WEB
CONROD   1975141 19741    19751    2014     0.764                              WEB
CONROD   1976151 19751    19761    2014     1.528                              WEB
CONROD   1975242 19742    19752    2014     0.981                              WEB
CONROD   1976252 19752    19762    2014     1.528                              WEB
CONROD   1976343 19743    19763    2014     1.009                              WEB
CONROD   1976545 19745    19765    2014     1.584                              WEB
CONROD   1976747 19747    1006     2014     1.009                              WEB
CONROD   1975848 19748    19758    2014     0.981                              WEB
CONROD   1976858 19758    19768    2014     1.528                              WEB
CONROD   1975949 19749    19759    2014     0.764                              WEB
CONROD   1976959 19759    19769    2014     1.528                              WEB
```

```
$
$                          LUGS / CENTER CARRY-THRU SPAR
$                                STA 197.107
$
CBAR     1974100 1974100  19741    61927    0.0      1.0      1.0      1        C5 LUGR
PBAR     1974100 2014     0.694    0.208    1.302    0.624
CBAR     1975100 1975100  19751    61923    0.0      1.0      1.0      1        C2 LUGR
PBAR     1975100 2014     0.694    0.208    1.302    0.624
CBAR     1974900 1974900  19749    71927    0.0      1.0      1.0      1        C5 LUGL
PBAR     1974900 2014     0.694    0.208    1.302    0.624
CBAR     1975800 1975800  19758    71923    0.0      1.0      1.0      1        C2 LUGL
PBAR     1975800 2014     0.694    0.208    1.302    0.624
$
$                              AFT WING CARRY-THRU SPAR
$                                209-030-142
$
$    FRAMES AND DOUBLERS
CBAR     2124143 2124143  21341    21343    0.0      1.0      1.0      1        2124143
+2124143       6
PBAR     2124143 2014     1.562    0.725    1.422    0.0634
CBAR     2124345 2124345  21343    21345    0.0      1.0      1.0      1
PBAR     2124345 2014     0.8124   0.0      0.3427   0.00756
CBAR     2124547 2124547  21345    21347    0.0      1.0      1.0      1
PBAR     2124547 2014     0.8124   0.0      0.3427   0.00756
CBAR     2124749 2124749  21347    21349    0.0      1.0      1.0      1        2124749
+2124749   6
PBAR     2124749 2014     1.562    0.725    1.422    0.0634
$
$                            LUGS / AFT CARRY-THRU SPAR
$                                STA 213.94
$
CBAR     2134100 2134100  21341    61935    0.0      1.0      1.0      1        A2 LUGR
PBAR     2134100 2014     0.4693   0.0472   0.8892   0.1643
CBAR     2134900 2134900  21349    71935    0.0      1.0      1.0      1        A2 LUGL
PBAR     2134900 2014     0.4693   0.0472   0.8892   0.16143
$
$                              AFT FUSELAGE SUBASSEMBLY
$                                    * * *
$
$                              STA 213.94 BULKHEAD
$                                209-030-108-007
$
$    FRAMES AND DOUBLERS
CONROD   2132123 21321    21323    7075     0.302
CONROD   2132325 21323    21325    7075     0.302
CONROD   2132527 21325    21327    7075     0.302
CONROD   2132729 21327    21329    7075     0.302
CONROD   2134143 21341    21343    7075     0.131
CONROD   2134345 21343    21345    7075     0.131
CONROD   2134547 21345    21347    7075     0.131
CONROD   2134749 21347    21349    7075     0.131
CONROD   2136163 21361    21363    2024     0.101
CONROD   2136364 21363    21364    2024     0.101
CONROD   2136466 21364    21366    2024     0.101
CONROD   2136667 21366    21367    2024     0.101
CONROD   2136769 21367    21369    2024     0.101
CONROD   2132141 21321    21341    7075     0.309
CONROD   2134161 21341    21361    7075     0.182
CONROD   2132949 21329    21349    7075     0.309
CONROD   2134969 21349    21369    7075     0.182
```

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$    SHEAR WEBS
CQDMEM   2132143 0129046 21321   21341   21343   21323
CQDMEM   2132345 0129046 21323   21343   21345   21325
CQDMEM   2132547 0129046 21325   21345   21347   21327
CQDMEM   2132749 0129046 21327   21347   21348   21329
CQDMEM   2134163 1007075 21341   21361   21363   21343
CQDMEM   2134364 0507075 21343   21363   21364   21345
CTRMEM   2134584 0507075 21345   21364   21366
CQDMEM   2134567 0507075 21345   21366   21367   21347
CQDMEM   2134769 1007075 21347   21367   21369   21349
$
$                                STA 218.97 BULKHEAD
$                                  209-030-109-005
$
$    SHEAR WEBS
CTRMEM   2180121 0252024 21801   21821   21823
CTRMEM   2180123 0252024 21801   21823   21803
CTRMEM   2180323 0252024 21803   21823   21825
CTRMEM   2180325 0252024 21803   21825   21807
CTRMEM   2180725 0252024 21807   21825   21827
CTRMEM   2180727 0252024 21807   21827   21809
CTRMEM   2180927 0252024 21809   21827   21829
$
$                                STA 227.62 BULKHEAD
$                                  209-030-110-005
$
$    SHEAR WEBS
CTRMEM   2270121 0252024 22701   22721   22723
CTRMEM   2270123 0252024 22701   22723   22703
CTRMEM   2270323 0252024 22703   22723   22725
CTRMEM   2270325 0252024 22703   22725   22707
CTRMEM   2270725 0252024 22707   22725   22727
CTRMEM   2270727 0252024 22707   22727   22709
CTRMEM   2270927 0252024 22709   22727   22729
$
$                                STA 250.00 BULKHEAD
$                                  209-030-111-107
$
$    FRAMES AND DOUBLERS
CONROD   2500103 25001   25003   2024    0.039
CONROD   2500307 25003   25007   2024    0.039
CONROD   2500709 25007   25009   2024    0.039
CONROD   2502125 25021   25025   7075    0.299
CONROD   2502529 25025   25029   7075    0.299
CONROD   2506165 25061   1007    7075    0.489
CONROD   2506569 1007    25069   7075    0.489
CONROD   2502101 25001   25021   2024    0.039
CONROD   2502141 25021   25041   7075    0.266
CONROD   2504161 25041   25061   7075    0.266
CONROD   2500929 25009   25029   2024    0.039
CONROD   2502949 25029   25049   7075    0.266
CONROD   2504969 25049   25069   7075    0.266
$    SHEAR WEBS
CTRMEM   2500121 0252024 25001   25021   25025
CTRMEM   2500125 0252024 25001   25025   25003
CTRMEM   2500325 0252024 25003   25025   25007
CTRMEM   2500725 0252024 25007   25025   25009
CTRMEM   2500925 0252024 25009   25025   25029
CQDMEM   2502145 0129046 25021   25041   25045   25025
CQDMEM   2502549 0129046 25025   25045   25049   25029
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CQDMEM   2504165 0129046 25041   25061   1007    25045
CQDMEM   2504569 0129046 25045   1007    25069   25049
$
$                                STA 268.25 BULKHEAD
$                                  209-030-112-013
$
$    FRAMES AND DOUBLERS
CONROD   2682125 26821   26825   2024    0.225
CONROD   2682529 26825   26829   2024    0.225
CONROD   2686165 26861   26865   2024    0.446
CONROD   2686569 26865   1008    2024    0.446
CONROD   2682141 26821   26841   2024    0.072
CONROD   2684161 26841   26861   2024    0.072
CONROD   2682949 26829   26849   2024    0.072
CONROD   2684969 26849   1008    2024    0.072
$    SHEAR WEBS
CTRMEM   2680121 0282024 26801   26821   26825
CTRMEM   2680125 0282024 26801   26825   25809
CTRMEM   2680925 0282024 26809   26825   26829
CQDMEM   2682145 0282024 26821   26841   26845   26825
CQDMEM   2682549 0282024 26825   26845   26849   26829
CQDMEM   2684165 0282024 26841   26861   26865   26845
CQDMEM   2684569 0282024 26845   26865   1008    26849
$
$                              TAILBOOM JUNCTION BULKHEAD
$                                  209-030-113-001
$
$    FRAMES AND DOUBLERS
CONROD   2992125 29921   29925   7075    0.285
CONROD   2992529 29925   29929   7075    0.285
CONROD   2996165 29961   29965   7075    0.480
CONROD   2996569 29965   1009    7075    0.480
CONROD   2992141 29921   29941   7075    0.335
CONROD   2994161 29941   29961   7075    0.335
CONROD   2992949 29929   29949   7075    0.605
CONROD   2994969 29949   1009    7075    0.335
$    SHEAR WEBS
CTRMEM   2980521 0327075 29905   29921   29925
CTRMEM   2980525 0327075 29905   29925   29929
CQDMEM   2982145 0327075 29921   29941   29945   29925
CQDMEM   2982549 0327075 29925   29945   29949   29929
CQDMEM   2984165 0327075 29941   29961   29965   29945
CQDMEM   2984569 0327075 29945   29965   1009    29949
$
$                    TAILBOOM ATTACHMENT TO FUSELAGE BULKHEAD
$
$
$                                WING / RIGHT SIDE
$                                  209-020-001
$
$                              FORWARD SPAR / RIGHT WING
$                                  209-020-101
$
CONROD   8222811 82211   82811   2014    0.43811
CBAR     8222813 8222813 82213   82811   0.0     0.0     1.0     1       8222813
+8222813         458
PBAR     8222813 2014    1.780   0.20868 1.02299 0.09852
CONROD   8222812 82213   82811   2014    0.1875                          WEB
CONROD   8283411 82811   83411   2014    0.41152                         CAP
```

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CONROD   6283412 62811    63411    2014     0.19325                              WEB
CONROD   6344211 63411    64211    2014     0.40701,                             CAP
CONROD   6344212 63411    64211    2014     0.17038                              WEB
CONROD   6425011 64211    65011    2014     0.40080                              CAP
CONROD   6425012 64211    65011    2014     0.144                                WEB
CONROD   6505911 65011    65911    2014     0.39246                              CAP
CONROD   6505912 65011    65911    2014     0.118                                WEB
CSHEAR   6221119 150      62213    62811    62819    62217
CSHEAR   6281119 12966    62811    63411    63419    62819
CSHEAR   6341119 12728    63411    64211    64219    63419
CSHEAR   6421119 12381    64211    65011    65019    64219
CSHEAR   6501119 11916    65011    65911    65919    65019
CBAR     6222817 6222817  62217    62819    0.0      0.0      1.0      1          6222817
+6222817         456
PBAR     6222817 2014     1.355    0.07213  0.67968  0.04572
CONROD   6222819 62219    62819    2014     0.43668
CONROD   6222818 62217    62819    2014     0.1875                               WEB
CONROD   6283419 62819    63419    2014     0.40783                              CAP
CONROD   6283418 62819    63419    2014     0.19325                              WEB
CONROD   6344219 63419    64219    2014     0.40412                              CAP
CONROD   6344218 63419    64219    2014     0.17038                              WEB
CONROD   6425019 64219    65019    2014     0.39860                              CAP
CONROD   6425018 64219    65019    2014     0.144                                WEB
CONROD   6505919 65019    65919    2014     0.39083                              CAP
CONROD   6505918 65019    65919    2014     0.118                                WEB
$
$                          CENTER SPAR / RIGHT WING
$                               209-020-102
$
CBAR     6222821 6222821  62221    62821    0.0      0.0      1.0      1          6222821
+6222821         456
PBAR     6222821 2014     1.34058  0.52306  0.99587  0.00910
CBAR     6222824 6222824  62224    62821    0.0      0.0      1.0      1          6222824
+6222824         456
PBAR     6222824 2014     1.45     0.14717  0.63501  0.00910
CONROD   6222822 62224    62821    2014     0.21559                              WEB
CONROD   6283421 62821    63421    2014     1.24010                              CAP
CONROD   6283422 62821    63421    2014     0.26034                              WEB
CONROD   6344221 63421    64221    2014     0.94412                              CAP
CONROD   6344222 63421    64221    2014     0.23200                              WEB
CONROD   6425021 64221    65021    2014     0.50055                              CAP
CONROD   6425022 64221    65021    2014     0.20207                              WEB
CONROD   6505921 65021    1017     2014     0.43588                              CAP
CONROD   6505922 65021    1017     2014     0.17075                              WEB
CSHEAR   6222129 18157    62224    62821    62829    62226
CSHEAR   6282129 17735    62821    63421    63429    62829
CSHEAR   6342129 17490    63421    64221    64229    63429
CSHEAR   6422129 17410    64221    65021    65029    64229
CSHEAR   6502129 17088    65021    1017     65929    65029
CBAR     6222826 6222826  62226    62829    0.0      0.0      1.0      1          6222826
+6222826         456
PBAR     6222826 2014     1.41     0.14991  0.65619  0.00910
CBAR     6222829 6222829  62229    62829    0.0      0.0      1.0      1          6222829
+6222829         456
PBAR     6222828 2014     0.97873  0.21703  0.86254  0.00910
CONROD   6222828 62226    62829    2014     0.21559                              WEB
CONROD   6283429 62829    63429    2014     1.23420                              CAP
CONROD   6283428 62829    63429    2014     0.26034                              WEB
CONROD   6344229 63429    64229    2014     0.98586                              CAP
CONROD   6344228 63429    64229    2014     0.23200                              WEB
```

```
CONROD   6425029 64229    65029    2014     0.53473                              CAP
CONROD   6425028 64228    65029    2014     0.20207                              WEB
CONROD   6505929 65029    65929    2014     0.44318                              CAP
CONROD   6505928 65029    65929    2014     0.17075                              WEB
$
$                          AFT SPAR / RIGHT WING
$                               209-020-103
$
CBAR     6222831 6222831  62231    62831    0.0      0.0      1.0      1          6222831
+6222831         456
PBAR     6222831 2014     0.42285  0.04445  0.32148  0.00906
CONROD   6222832 62231    62831    2014     0.02598                              WEB
CONROD   6283431 62831    63431    2014     0.10275                              CAP
CONROD   6283432 62831    63431    2014     0.02788                              WEB
CONROD   6344231 63431    64231    2014     0.10213                              CAP
CONROD   6344232 63431    64231    2014     0.02642                              WEB
CONROD   6425031 64231    65031    2014     0.10110                              CAP
CONROD   6425032 64231    65031    2014     0.02682                              WEB
CONROD   6505931 65031    65931    2014     0.10015                              CAP
CONROD   6505932 65031    65931    2014     0.02329                              WEB
CSHEAR   6223139 06416    62231    62831    62839    62239
CSHEAR   6283139 07505    62831    63431    63439    62839
CSHEAR   6343139 07402    63431    64231    64239    63439
CSHEAR   6423139 07278    64231    65031    65039    64239
CSHEAR   6503139 07149    65031    65931    65939    65039
CBAR     6222839 6222839  62239    62839    0.0      0.0      1.0      1          6222839
+6222839         456
PBAR     6222839 2014     0.25928  0.01150  0.11667  0.01365
CONROD   6222838 62239    62839    2014     0.02598                              WEB
CONROD   6283439 62839    63439    2014     0.15381                              CAP
CONROD   6283438 62839    63439    2014     0.02788                              WEB
CONROD   6344239 63439    64239    2014     0.15210                              CAP
CONROD   6344238 63439    64239    2014     0.02642                              WEB
CONROD   6425039 64239    65039    2014     0.15044                              CAP
CONROD   6425038 64239    65039    2014     0.02682                              WEB
CONROD   6505939 65039    65939    2014     0.14855                              CAP
CONROD   6505938 65039    65939    2014     0.02329                              WEB
$
$                          TOP SKIN / RIGHT WING
$
CQDMEM   6221121 0637075  62211    62221    62821    62811
CQDMEM   6281121 0637075  62811    62821    63421    63411
CQDMEM   6341121 0637075  63411    63421    64221    64211
CQDMEM   6421121 0637075  64211    64221    65021    65011
CQDMEM   6501121 0637075  65011    65021    1017     65911
CQDMEM   6222131 0637075  62221    62231    62831    62821
CQDMEM   6282131 0637075  62821    62831    63431    63421
CQDMEM   6342131 0637075  63421    63431    64231    64221
CQDMEM   6422131 0637075  64221    64231    65031    65021
CQDMEM   6502131 0637075  65021    65031    65931    1017
$
$                          BOTTOM SKIN / RIGHT WING
$
CQDMEM   6221929 0637075  62219    62229    62829    62819
CQDMEM   6281929 0637075  62819    62829    63429    63419
CQDMEM   6341929 0637075  63419    63429    64229    64219
CQDMEM   6421929 0637075  64219    64229    65029    65019
CQDMEM   6501929 0637075  65019    65029    65929    65919
CQDMEM   6222939 0637075  62229    62239    62839    62829
CQDMEM   6282939 0637075  62829    62839    63439    63429
```

```
CQDMEM   6342939 0637075 63429    63439    64239    64229
CQDMEM   6422938 0637075 64229    64239    65038    65029
CQDMEM   6502938 0637075 65029    65039    65938    65929
$
$                                  WS  22.19 RIB
$
CQDMEM   6221124 1252014 62211    62221    62224    62213
CQDMEM   6221326 1252014 62213    62224    62226    62217
CQDMEM   6221729 1252014 62217    62226    62229    62219
CTRMEM   6222431 1252014 62221    62224    62231
CQDMEM   6222439 1252014 62224    62231    62239    62226
CTRMEM   6222639 1252014 62226    62229    62239
$
$                                  WS  28.00 RIB
$
CQDMEM   6281129 1252014 62811    62821    62829    62819
CQDMEM   6282139 1252014 62821    62831    62839    62829
$
$                                  WS  34.00 RIB
$
CQDMEM   6341129 1252014 63411    63421    63429    63419
CQDMEM   6342139 1252014 63421    63431    63439    63429
$
$                                  WS  42.50 RIB
$
CQDMEM   6421129 1252014 64211    64221    64229    64219
CQDMEM   6422139 1252014 64221    64231    64239    64229
$
$          HARD POINT FOR ATTACHING INBOARD WING STORES - RIGHT SIDE
$
MPC      1000    64229   4        1.0      64221    2        .13423     R I/B 4
+R I/B 4         64229   2        -.13423
MPC      1000    64229   5        1.0      64219    3        -.10493    R I/B 5
+R I/B 5         64229   3        .10493
MPC      1000    64229   6        1.0      64219    2        .10493     R I/B 6
+R I/B 6         64229   2        -.10493
$
$                                  WS  50.75 RIB
$
CQDMEM   6501129 1252014 65011    65021    65029    65019
CQDMEM   6502139 1252014 65021    65031    65039    65029
$
$                                  WS  59.00 RIB
$
CQDMEM   6591129 1252014 65911    1017     65929    65919
CQDMEM   6592139 1252014 1017     65931    65939    65929
$
$          HARD POINT FOR ATTACHING OUTBOARD WING STORES - RIGHT SIDE
$
MPC      1000    65929   4        1.0      1017     2        .18182     R O/B 4
+R O/B 4         65929   2        -.18182
MPC      1000    65929   5        1.0      65919    3        -.11442    R O/B 5
+R O/B 5         65929   3        .11442
MPC      1000    65929   6        1.0      65919    2        .11442     R O/B 6
+R O/B 6         65929   2        -.11442
$
$                          FORWARD SPAR LUGS / RIGHT WING
$
CBAR     6131922 6131922 61913    62213    0.0      0.0      1.0      1          F2 LUGR
PBAR     6131922 2014    1.32139  0.43256  0.91617  0.99515
```

```
CBAR     6171922 6171922 61917    62217    0.0      0.0      1.0      1          F5 LUGR
PBAR     6171922 2014    1.5496   0.16642  0.66633  0.45718
$
$                          CENTER SPAR LUGS / RIGHT WING
$
CBAR     6221922 6221922 61922    62221    0.0      0.0      1.0      1          C1 LUGR
+C1 LUGR                 0.0      0.0      0.0      0.0      0.0      -0.91
PBAR     6221922 2014    0.54348  0.02604  0.65104  0.09104
CBAR     6241922 6241922 61924    62224    0.0      0.0      1.0      1          C3 LUGR
PBAR     6241922 2014    0.54348  0.02604  0.65104  0.09104
CBAR     6261922 6261922 61926    62226    0.0      0.0      1.0      1          C4 LUGR
PBAR     6261922 2014    0.8333   0.02604  0.65104  0.09104
CBAR     6281922 6281922 61928    62229    0.0      0.0      1.0      1          C6 LUGR
+C6 LUGR                 0.0      0.0      0.0      0.0      0.0      -0.27
PBAR     6281922 2014    0.8333   0.02604  0.65104  0.09104
$
$                            AFT SPAR LUGS / RIGHT WING
$
CBAR     6341922 6341922 61934    62231    0.0      0.0      1.0      1          A1 LUGR
+A1 LUGR                 0.0      0.0      0.0      0.0      0.0      -0.93
PBAR     6341922 2014    0.532    0.02781  0.32009  0.09058
CBAR     6361922 6361922 61936    62239    0.0      0.0      1.0      1          A3 LUGR
PBAR     6361922 2014    0.98848  0.04328  0.37096  0.13655
$
$                        FORWARD SPAR LUG PIN / RIGHT WING
$
$     REPLACE MPC EQUATIONS WITH RIGID ELEMENTS 9/17/87
$          R.V. DOMPKA    TO REMOVE N-SET PROBLEMS
$       FOR 61913,61917      (FRONT LUGS ON WINGS)
$
$
RBE2       61913   61913   123      61912    61914                          MPCFRU1
$
RBE2       61917   61917   123      61916    61918                          MPCFRU1
$
$                          CENTER SPAR LUG PIN / RIGHT WING
$
$     REPLACE MPC EQUATIONS WITH RIGID ELEMENTS 9/17/87
$          R.V. DOMPKA    TO REMOVE N-SET PROBLEMS
$       FOR 61923,61927      (CENTER LUGS ON WINGS)
$
$
RBE2       61923   61923   123      61922    61924                          MPCFRU1
$
RBE2       61927   61927   123      61926    61928                          MPCFRU1
$
$
$                            AFT SPAR LUG PIN / RIGHT WING
$
$BE2       61935   61935   123      61934    61936                          MPCFRU1
$
$
MPC      1000    61935   1        1.0      61936    1        -.477612   MPCARC1
+MPCARC1         61934   1        -.522388
MPC      1000    61935   2        1.0      61936    2        -.477612   MPCARC2
+MPCARC2         61934   2        -.522388
MPC      1000    61936   3        1.0      61935    3        -1.0
MPC      1000    61934   3        1.0      61935    3        -1.0
MPC      1000    61936   4        1.0      61935    4        -1.0
```

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MPC     1000    61934   4       1.0     61835   4       -1.0
MPC     1000    61936   5       1.0     61835   5       -1.0
MPC     1000    61934   5       1.0     61935   5       -1.0
MPC     1000    61935   4       1.0     61936   2       -.746269        MPCARC4
+MPCARC4        61934   2       .746269
MPC     1000    61935   5       1.0     61936   1        .746269        MPCARC5
+MPCARC5        61934   1       -.746269
$
$
$
$
$
$                               WING / LEFT SIDE
$                                  209-020-001
$
$
$                           FORWARD SPAR / LEFT WING
$                                  209-020-101
$
CONROD  7222811 72211   72811   2014    0.43811
CBAR    7222813 7222813 72213   72811   0.0     0.0     1.0     1       7222813
+7222813        456
PBAR    7222813 2014    1.790   0.20869 1.02299 0.08952
CONROD  7222812 72213   72811   2014    0.1875                          WEB
CONROD  7283411 72811   73411   2014    0.41152                         CAP
CONROD  7283412 72811   73411   2014    0.19325                         WEB
CONROD  7344211 73411   74211   2014    0.40701                         CAP
CONROD  7344212 73411   74211   2014    0.17038                         WEB
CONROD  7425011 74211   75011   2014    0.40060                         CAP
CONROD  7425012 74211   75011   2014    0.144                           WEB
CONROD  7505911 75011   75811   2014    0.39246                         CAP
CONROD  7505912 75011   75811   2014    0.118                           WEB
CSHEAR  7221119 150     72213   72811   72819   72217
CSHEAR  7281119 12966   72811   73411   73419   72819
CSHEAR  7341119 12728   73411   74211   74219   73419
CSHEAR  7421119 12381   74211   75011   75019   74219
CSHEAR  7501119 11916   75011   75911   75919   75019
CBAR    7222817 7222817 72217   72819   0.0     0.0     1.0     1       7222817
+7222817        456
PBAR    7222817 2014    1.355   0.07213 0.67968 0.04572
CONROD  7222819 72219   72819   2014    0.43668
CONROD  7222818 72217   72819   2014    0.1875                          WEB
CONROD  7283419 72819   73419   2014    0.40783                         CAP
CONROD  7283418 72819   73419   2014    0.19325                         WEB
CONROD  7344219 73419   74219   2014    0.40412                         CAP
CONROD  7344218 73419   74219   2014    0.17038                         WEB
CONROD  7425019 74219   75019   2014    0.38860                         CAP
CONROD  7425018 74219   75019   2014    0.144                           WEB
CONROD  7505919 75019   75919   2014    0.39083                         CAP
CONROD  7505918 75019   75919   2014    0.118                           WEB
$
$                           CENTER SPAR / LEFT WING
$                                  209-020-102
$
CBAR    7222821 7222821 72221   72821   0.0     0.0     1.0     1       7222821
+7222821        456
PBAR    7222821 2014    1.34058 0.52308 0.99587 0.00910
CBAR    7222824 7222824 72224   72821   0.0     0.0     1.0     1       7222824
+7222824        456
PBAR    7222824 2014    1.45    0.14717 0.63501 0.00910
```

```
CONROD  7222822 72224   72821   2014    0.21559                         WEB
CONROD  7283421 72821   73421   2014    1.24010                         CAP
CONROD  7283422 72821   73421   2014    0.26034                         WEB
CONROD  7344221 73421   74221   2014    0.94412                         CAP
CONROD  7344222 73421   74221   2014    0.23200                         WEB
CONROD  7425021 74221   75021   2014    0.50055                         CAP
CONROD  7425022 74221   75021   2014    0.20207                         WEB
CONROD  7505921 75021   1018    2014    0.43588                         CAP
CONROD  7505922 75021   1018    2014    0.17075                         WEB
CSHEAR  7222128 18157   72224   72821   72829   72226
CSHEAR  7282129 17736   72821   73421   73429   72829
CSHEAR  7342129 17490   73421   74221   74229   73429
CSHEAR  7422129 17410   74221   75021   75029   74229
CSHEAR  7502129 17088   75021   1018    75929   75029
CBAR    7222826 7222826 72226   72829   0.0     0.0     1.0     1       7222826
+7222826        456
PBAR    7222826 2014    1.41    0.14991 0.65619 0.00910
CBAR    7222829 7222829 72229   72829   0.0     0.0     1.0     1       7222829
+7222829        456
PBAR    7222829 2014    0.97873 0.21703 0.86254 0.00910
CONROD  7222828 72226   72829   2014    0.21559                         WEB
CONROD  7283429 72829   73429   2014    1.23420                         CAP
CONROD  7283428 72829   73429   2014    0.26034                         WEB
CONROD  7344229 73429   74229   2014    0.98586                         CAP
CONROD  7344228 73429   74229   2014    0.23200                         WEB
CONROD  7425029 74229   75029   2014    0.53473                         CAP
CONROD  7425028 74229   75029   2014    0.20207                         WEB
CONROD  7505929 75029   75929   2014    0.44318                         CAP
CONROD  7505928 75029   75929   2014    0.17075                         WEB
$
$                            AFT SPAR / LEFT WING
$                                  209-020-103
$
CONROD  7222832 72231   72831   2014    0.02598                         WEB
CBAR    7222831 7222831 72231   72831   0.0     0.0     1.0     1       7222831
+7222831        456
PBAR    7222831 2014    0.42265 0.04445 0.32148 0.00906
CONROD  7283431 72831   73431   2014    0.10275                         CAP
CONROD  7283432 72831   73431   2014    0.02788                         WEB
CONROD  7344231 73431   74231   2014    0.10213                         CAP
CONROD  7344232 73431   74231   2014    0.02642                         WEB
CONROD  7425031 74231   75031   2014    0.10110                         CAP
CONROD  7425032 74231   75031   2014    0.02682                         WEB
CONROD  7505931 75031   75931   2014    0.10015                         CAP
CONROD  7505932 75031   75931   2014    0.02329                         WEB
CSHEAR  7223139 06416   72231   72831   72839   72239
CSHEAR  7283139 07505   72831   73431   73439   72839
CSHEAR  7343139 07402   73431   74231   74239   73439
CSHEAR  7423139 07278   74231   75031   75039   74239
CSHEAR  7503139 07149   75031   75931   75939   75039
CBAR    7222839 7222839 72239   72839   0.0     0.0     1.0     1       7222839
+7222839        456
PBAR    7222839 2014    0.25928 0.01150 0.11667 0.01365
CONROD  7222838 72239   72839   2014    0.02598                         WEB
CONROD  7283439 72839   73439   2014    0.15581                         CAP
CONROD  7283438 72839   73439   2014    0.02788                         WEB
CONROD  7344239 73439   74239   2014    0.15210                         CAP
CONROD  7344238 73439   74239   2014    0.02642                         WEB
CONROD  7425039 74239   75039   2014    0.15044                         CAP
CONROD  7425038 74239   75039   2014    0.02682                         WEB
```

```
CONROD   7505939 75039   75939   2014    0.1485E                          CAP
CONROD   7505938 75039   75939   2014    0.02329                          WEB
$
$                              TOP SKIN / LEFT WING
$
CQDMEM   7221121 0637075 72211   72221   72821   72811
CQDMEM   7281121 0637075 72811   72821   73421   73411
CQDMEM   7341121 0637075 73411   73421   74221   74211
CQDMEM   7421121 0637075 74211   74221   75021   75011
CQDMEM   7501121 0637075 75011   75021   1018    75911
CQDMEM   7222131 0637075 72221   72231   72831   72821
CQDMEM   7282131 0637075 72821   72831   73431   73421
CQDMEM   7342131 0637075 73421   73431   74231   74221
CQDMEM   7422131 0637075 74221   74231   75031   75021
CQDMEM   7502131 0637075 75021   75031   75931   1018
$
$                            BOTTOM SKIN / LEFT WING
$
CQDMEM   7221929 0637075 72219   72229   72829   72819
CQDMEM   7281929 0637075 72819   72829   73429   73419
CQDMEM   7341929 0637075 73419   73429   74229   74219
CQDMEM   7421929 0637075 74219   74229   75029   75019
CQDMEM   7501929 0637075 75019   75029   75929   75919
CQDMEM   7222939 0637075 72229   72239   72839   72829
CQDMEM   7282939 0637075 72829   72839   73439   73429
CQDMEM   7342939 0637075 73429   73439   74239   74229
CQDMEM   7422939 0637075 74229   74239   75039   75029
CQDMEM   7502939 0637075 75029   75039   75939   75929
$
$                              WS -22.19 RIB
$
CQDMEM   7221124 1252014 72211   72221   72224   72213
CQDMEM   7221326 1252014 72213   72224   72226   72217
CQDMEM   7221729 1252014 72217   72226   72229   72219
CTRMEM   7222431 1252014 72221   72224   72231
CQDMEM   7222439 1252014 72224   72231   72239   72226
CTRMEM   7222639 1252014 72226   72229   72239
$
$                              WS -28.00 RIB
$
CQDMEM   7281129 1252014 72811   72821   72829   72819
CQDMEM   7282139 1252014 72821   72831   72839   72829
$
$                              WS -34.00 RIB
$
CQDMEM   7341129 1252014 73411   73421   73429   73419
CQDMEM   7342139 1252014 73421   73431   73439   73429
$
$                              WS -42.50 RIB
$
CQDMEM   7421129 1252014 74211   74221   74229   74219
CQDMEM   7422139 1252014 74221   74231   74239   74229
$
$          HARD POINT FOR ATTACHING INBOARD WING STORES - LEFT SIDE
$
MPC      1000    74229   4       1.0     74221   2       .13423          L I/B 4
+L I/B 4         74229   2       -.13423
MPC      1000    74229   5       1.0     74219   3       -.10493         L I/B 5
+L I/B 5         74229   3       .10493
MPC      1000    74229   6       1.0     74219   2       .10493          L I/B 6
```

```
+L I/B 6         74229   2       -.10493
$
$                              WS -50.75 RIB
$
CQDMEM   7501129 1252014 75011   75021   75029   75019
CQDMEM   7502139 1252014 75021   75031   75039   75029
$
$                              WS -59.00 RIB
$
CQDMEM   7591129 1252014 75911   1018    75929   75919
CQDMEM   7592139 1252014 1018    75931   75939   75929
$
$          HARD POINT FOR ATTACHING OUTBOARD WING STORES - LEFT SIDE
$
MPC      1000    75929   4       1.0     1018    2       .18182          L O/B 4
+L O/B 4         75929   2       -.18182
MPC      1000    75929   5       1.0     75919   3       -.11442         L O/B 5
+L O/B 5         75929   3       .11442
MPC      1000    75929   6       1.0     75919   2       .11442          L O/B 6
+L O/B 6         75929   2       -.11442
$
$                          FORWARD SPAR LUGS / LEFT WING
$
CBAR     7131922 7131922 71913   72213   0.0     0.0     1.0     1       F2 LUGL
PBAR     7131922 2014    1.32139 0.43256 0.91617 0.99515
CBAR     7171922 7171922 71917   72217   0.0     0.0     1.0     1       F5 LUGL
PBAR     7171922 2014    1.5496  0.16642 0.66633 0.45718
$
$                           CENTER SPAR LUGS / LEFT WING
$
CBAR     7221922 7221922 71922   72221   0.0     0.0     1.0     1       C1 LUGL
+C1 LUGL         0.0     0.0     0.0     0.0     0.0     -0.91
PBAR     7221922 2014    0.54348 0.02604 0.85104 0.09104
CBAR     7241922 7241922 71924   72224   0.0     0.0     1.0     1       C3 LUGL
PBAR     7241922 2014    0.54348 0.02604 0.85104 0.09104
CBAR     7261922 7261922 71926   72226   0.0     0.0     1.0     1       C4 LUGL
PBAR     7261922 2014    0.8333  0.02604 0.85104 0.09104
CBAR     7281922 7281922 71928   72229   0.0     0.0     1.0     1       C6 LUGL
+C6 LUGL         0.0     0.0     0.0     0.0     0.0     0.27
PBAR     7281922 2014    0.8333  0.02604 0.85104 0.09104
$
$                            AFT SPAR LUGS / LEFT WING
$
CBAR     7341922 7341922 71934   72231   0.0     0.0     1.0     1       A1 LUGL
+A1 LUGL         0.0     0.0     0.0     0.0     -0.93
PBAR     7341922 2014    0.532   0.02781 0.32009 0.09058
CBAR     7361922 7361922 71936   72239   0.0     0.0     1.0     1       A3 LUGL
PBAR     7361922 2014    0.98648 0.04328 0.37096 0.13655
$
$                        FORWARD SPAR LUG PIN / LEFT WING
$
$     REPLACE MPC EQUATIONS WITH RIGID ELEMENTS 9/17/87
$          R.V. DOMPKA    TO REMOVE N-SET PROBLEMS
$        FOR 71913,71917     (FRONT LUGS ON WINGS)
$
$
RBE2       71913   71913   123     71914   71912                           MPCFLU1
RBE2       71917   71917   123     71916   71918                           MPCFRU1
$
$                           CENTER SPAR LUG PIN / LEFT WING
```

```
$
$     REPLACE MPC EQUATIONS WITH RIGID ELEMENTS 9/17/87
$          R.V. DOMPKA    TO REMOVE N-SET PROBLEMS
$       FOR 71923,71927     (CENTER LUGS ON WINGS)
$
$
RBE2       71923   71923   123       71924   71922                          MPCFLU1
RBE2       71927   71927   123       71926   71928                          MPCFRU1
$
$
$
$                          AFT SPAR LUG PIN / LEFT WING
$
$BE2       71935   71935   123       71934   71936                          MPCFLU1
$
$
MPC        1000    71935   1         1.0     71936   1       -.477612       MPCALC1
+MPCALC1           71934   1       -.522388
MPC        1000    71935   2         1.0     71936   2       -.477612       MPCALC2
+MPCALC2           71934   2       -.522388
MPC        1000    71936   3         1.0     71935   3       -1.0
MPC        1000    71934   3         1.0     71935   3       -1.0
MPC        1000    71936   4         1.0     71935   4       -1.0
MPC        1000    71934   4         1.0     71935   4       -1.0
MPC        1000    71936   5         1.0     71935   5       -1.0
MPC        1000    71934   5         1.0     71935   5       -1.0
MPC        1000    71935   4         1.0     71936   2       -.746269       MPCALC4
+MPCALC4           71934   2       .746269
MPC        1000    71935   5         1.0     71936   1        .746269       MPCALC5
+MPCALC5           71934   1       -.746269
$
$
$
$                                MAIN ROTOR TRANSMISSION
$                                    204-040-009
$
CBAR       3530251 353025  200070  200078  1.0     0.0     0.0     1         MR G/B
CBAR       3530252 353025  200078  200079  1.0     0.0     0.0     1         MR G/B
CBAR       3530253 353025  200079  200087  1.0     0.0     0.0     1         MR G/B
CBAR       3530254 353025  200087  200096  1.0     0.0     0.0     1         MR G/B
CBAR       3530255 353025  200096  200101  1.0     0.0     0.0     1         MRBRG2
+MRBRG2            456
PBAR       353025  1       100.    1950    1950    1480
$
$                               MAIN ROTOR MAST
$                                 209-010-450
$
CBAR       4500050 450007  200079  1021    1.0     0.0     0.0     1         MRBRG1
+MRBRG1    56
CBAR       4500070 450007  1021    200095  1.0     0.0     0.0     1         MR MAST
CBAR       4500071 450007  200095  200101  1.0     0.0     0.0     1         MR MAST
CBAR       4500072 450007  200101  200106  1.0     0.0     0.0     1         MR MAST
CBAR       4500073 450007  200106  200112  1.0     0.0     0.0     1         MR MAST
CBAR       4500074 450007  200112  200114  1.0     0.0     0.0     1         MR MAST
CBAR       4500075 450007  200114  200121  1.0     0.0     0.0     1         MR MAST
CBAR       4500076 450007  200121  200129  1.0     0.0     0.0     1         MR MAST
CBAR       4500077 450007  200129  200137  1.0     0.0     0.0     1         MR MAST
CBAR       4500078 450007  200137  200145  1.0     0.0     0.0     1         MR MAST
CBAR       4500079 450007  200145  200153  1.0     0.0     0.0     1         MR MAST
CBAR       4500080 450007  200153  1022    1.0     0.0     0.0     1         MR MAST
```

```
CBAR       4500081 450007  1022    200162  1.0     0.0     0.0     1         MR MAST
PBAR       450007  1       100.    120.07  120.07  91.088
$
$                          MAIN ROTOR CYCLIC CONTROL LEVER
$                                209-010-402
$
CBAR       4020011 450007  192111  200111  0.0     0.0     1.0     1
CBAR       4020012 450007  193111  200111  0.0     0.0     1.0     1
$
$                           CYCLIC CONTROL BOOST CYLINDERS
$                                209-076-021
$
CONROD     0760211 192111  19173   10      447490.
CONROD     0760212 193111  19177   10      447490.
$
$                         MAIN ROTOR COLLECTIVE CONTROL LEVER
$                                209-010-405
$
CBAR       4060011 450007  194106  200105  0.0     0.0     1.0     1
CBAR       4060012 450007  200105  211104  0.0     0.0     1.0     1
$
$                          COLLECTIVE CONTROL BOOST CYLINDER
$                                209-076-021
$
CONROD     0760213 211104  20977   10      390970.
$
$               CYCLIC CONTROL LEVER ATTACHMENT TO MAIN ROTOR MAST
$
MPC        1000    200111  1         1.0     200112  1       -1.0
MPC        1000    200111  2         1.0     200112  2       -1.0
MPC        1000    200111  3         1.0     200112  3       -1.0
MPC        1000    200111  6         1.0     200112  6       -1.0
$
$            COLLECTIVE CONTROL LEVER ATTACHMENT TO MAIN ROTOR MAST
$
MPC        1000    200105  1         1.0     200106  1       -1.0
MPC        1000    200105  2         1.0     200106  2       -1.0
MPC        1000    200105  4         1.0     200106  4       -1.0
MPC        1000    200105  6         1.0     200106  6       -1.0
$
$      COLLECTIVE CONTROL LEVER ATTACHMENT TO MAIN ROTOR TRANSMISSION CASE
$
CBAR       4060014 353025  200095  194106  1.0     0.0     0.0     1         COLXMSN
+COLXMSN           456     -8.76   2.784   7.50    0.0     0.0     0.0
$
$                            MAIN ROTOR PYLON LIFT LINK
$                                212-030-104
$                               (209-030-357)
$
CBAR       3570001 3570001 200078  19765   1.0     0.0     0.0     1         LLINK
+LLINK                     -3.10   0.0     -1.67   0.0     0.0     1.52
PBAR       3570001 4340    0.89    0.0     0.0     0.0
$
$                 MAIN ROTOR TRANSMISSION CASE SUPPORT ASSEMBLY
$                                204-040-354-009
$     REPLACE MPC EQUATIONS WITH RIGID ELEMENTS 9/17/87
$          R.V. DOMPKA    TO REMOVE N-SET PROBLEMS
$       FOR 200078     (C.G. FOR TRANSMISSION)
$
RBE2       200078  200078  123456  189073  189077  211073  211077  214075
```

```
$
$
$
$                              MAIN ROTOR PYLON MOUNT SPRINGS
$                                   204-031-928-005
$
CELAS2  189831  28125.  189073  1       18983   1                       FWD R X
CELAS2  189832  28125.  189073  2       18983   2                       FWD R Y
CELAS2  189833  4500.   189073  3       18983   3                       FWD R Z
CELAS2  189871  28125.  189077  1       18987   1                       FWD L X
CELAS2  189872  28125.  189077  2       18987   2                       FWD L Y
CELAS2  189873  4500.   189077  3       18987   3                       FWD L Z
CELAS2  211831  28125.  211073  1       21183   1                       AFT R X
CELAS2  211832  28125.  211073  2       21183   2                       AFT R Y
CELAS2  211833  4500.   211073  3       21183   3                       AFT R Z
CELAS2  211871  28125.  211077  1       21187   1                       AFT L X
CELAS2  211872  28125.  211077  2       21187   2                       AFT L Y
CELAS2  211873  4500.   211077  3       21187   3                       AFT L Z
CELAS2  214853  20000.  214075  3       21485   3                       AFT C Z
$
$                                  TAIL ROTOR GEARBOX
$                                       204-040-400
$
CBAR    4000071 400007  52045   520024  0.0     0.0     1.0     1       TRBRG1
CBAR    4000072 400007  52045   520068  0.0     0.0     1.0     1       TRBRG2
+TRBRG2         456
PBAR    400007  4620    10.0    3.25    3.25    6.50
$
$                                  TAIL ROTOR MAST
$                                       204-040-402
$
CBAR    4020091 4020091 520018  520024  0.0     0.0     1.0     1       TR MAST
PBAR    4020091 4620    1.1090  0.2393  0.2393  0.4787
CBAR    4020092 4020092 520024  520057  0.0     0.0     1.0     1       TR MAST
PBAR    4020092 4620    0.8362  0.1909  0.1909  0.3817
CBAR    4020093 4020093 520057  520065  0.0     0.0     1.0     1       TR MAST
PBAR    4020093 4620    0.8442  0.1635  0.1635  0.3269
CBAR    4020094 4020094 520065  520068  0.0     0.0     1.0     1       TR MAST
PBAR    4020094 4620    1.0034  0.1780  0.1790  0.3580
CBAR    4020095 4020095 520068  1027    0.0     0.0     1.0     1       TR MAST
PBAR    4020095 4620    1.1242  0.1838  0.1838  0.3675
CBAR    4020096 4020096 1027    520135  0.0     0.0     1.0     1       TR MAST
PBAR    4020096 4620    0.8176  0.1149  0.1149  0.2297
CBAR    4020097 4020097 520135  520139  0.0     0.0     1.0     1       TR MAST
PBAR    4020097 4620    0.6437  0.07845 0.07845 0.1589
CBAR    4020098 4020098 520139  520152  0.0     0.0     1.0     1       TR MAST
PBAR    4020098 4620    0.6511  0.08074 0.08074 0.1615
CBAR    4020099 4020099 520152  1028    0.0     0.0     1.0     1       TR MAST
PBAR    4020099 4620    0.6511  0.08074 0.08074 0.1615
$
$                                  SKID LANDING GEAR
$                                       209-050-002
$
$
$                                  RIGHT SKID TUBE
$                                       209-050-002-052
$
CBAR    0020521 0020521 1024    214902  0.0     0.0     1.0     1
PBAR    0020521 2024    0.779   1.510   1.510   3.020
CBAR    0020522 0020522 214902  222002  0.0     0.0     1.0     1
```

```
PBAR    0020522 2024    0.779   1.510   1.510   3.020
CBAR    0020523 0020523 222002  1026    0.0     0.0     1.0     1
PBAR    0020523 2024    0.779   1.510   1.510   3.020
$
$                                  LEFT SKID TUBE
$                                       209-050-002-051
$
CBAR    0020511 0020511 1023    214901  0.0     0.0     1.0     1
PBAR    0020511 2024    0.779   1.510   1.510   3.020
CBAR    0020512 0020512 214901  222001  0.0     0.0     1.0     1
PBAR    0020512 2024    0.779   1.510   1.510   3.020
CBAR    0020513 0020513 222001  1025    0.0     0.0     1.0     1
PBAR    0020513 2024    0.779   1.510   1.510   3.020
$
$                                  FORWARD CROSS TUBE
$                                       209-050-002-045
$
CBAR    0020451 0020451 214902  215102  0.0     0.0     1.0     1
PBAR    0020451 7075    1.132   0.836   0.836   1.672
CBAR    0020452 0020452 215102  215202  0.0     0.0     1.0     1
PBAR    0020452 7075    1.686   1.312   1.312   2.624
CBAR    0020453 0020453 215202  215201  0.0     0.0     1.0     1
PBAR    0020453 7075    1.984   1.549   1.549   3.098
CBAR    0020454 0020454 215201  215101  0.0     0.0     1.0     1
PBAR    0020454 7075    1.686   1.312   1.312   2.624
CBAR    0020455 0020455 215101  214901  0.0     0.0     1.0     1
PBAR    0020455 7075    1.132   0.836   0.836   1.672
$
$                                  AFT CROSS TUBE
$                                       209-050-002-041
$
CBAR    0020411 0020411 222002  222202  0.0     0.0     1.0     1
PBAR    0020411 7075    1.516   1.090   1.090   2.180
CBAR    0020412 0020412 222202  222302  0.0     0.0     1.0     1
PBAR    0020412 7075    2.371   1.712   1.712   3.424
CBAR    0020413 0020413 222302  222301  0.0     0.0     1.0     1
PBAR    0020413 7075    2.788   2.022   2.022   4.044
CBAR    0020414 0020414 222301  222201  0.0     0.0     1.0     1
PBAR    0020414 7075    2.371   1.712   1.712   3.424
CBAR    0020415 0020415 222201  222001  0.0     0.0     1.0     1
PBAR    0020415 7075    1.516   1.090   1.090   2.180
$
$          FORWARD SKID LANDING GEAR MOUNTING STRUCTURE / RIGHT SIDE
$                                       209-030-302-004
$
MPC     1000    15212   1       1.0     215202  1       -1.0            RFG
MPC     1000    15212   2       1.0     215202  2       -1.0            RFG
MPC     1000    15212   3       1.0     215202  3       -1.0            RFG
$
$          FORWARD SKID LANDING GEAR MOUNTING STRUCTURE / LEFT SIDE
$                                       209-030-302-003
$
MPC     1000    15218   1       1.0     215201  1       -1.0            LFG
MPC     1000    15218   2       1.0     215201  2       -1.0            LFG
MPC     1000    15218   3       1.0     215201  3       -1.0            LFG
$
$              AFT SKID LANDING GEAR MOUNTING STRUCTURE / RIGHT SIDE
$                                       209-030-172-002
$
CTRMEM  1720021 1552014 21821   22312   21803
```

```
CTRMEM   1720022 1552014 21821   22312   22721
CTRMEM   1720023 1552014 22721   22312   22703
CTRMEM   1720024 1552014 21803   22312   22703
CTRMEM   1720025 1552014 21823   22312   21801
CTRMEM   1720026 1552014 21823   22312   22723
CTRMEM   1720027 1552014 22723   22312   22701
CTRMEM   1720028 1552014 21801   22312   22701
MPC      1000    22312   1       1.0     222302  1       -1.0
MPC      1000    22312   2       1.0     222302  2       -1.0
MPC      1000    22312   3       1.0     222302  3       -1.0
$
$              AFT SKID LANDING GEAR MOUNTING STRUCTURE / LEFT SIDE
$                              209-030-172-001
$
CTRMEM   1720011 1552014 21829   22318   21807
CTRMEM   1720012 1552014 21829   22318   22729
CTRMEM   1720013 1552014 22729   22318   22707
CTRMEM   1720014 1552014 21807   22318   22707
CTRMEM   1720015 1552014 21827   22318   21809
CTRMEM   1720016 1552014 21827   22318   22727
CTRMEM   1720017 1552014 22727   22318   22709
CTRMEM   1720018 1552014 21809   22318   22709
MPC      1000    22318   1       1.0     222301  1       -1.0
MPC      1000    22318   2       1.0     222301  2       -1.0
MPC      1000    22318   3       1.0     222301  3       -1.0
$
$                              ENGINE MOUNTS
$                        209-060-106/107/108/109
$
$     REPLACE MPC EQUATIONS WITH RIGID ELEMENTS 9/17/87
$          R.V. DOMPKA   TO REMOVE N-SET PROBLEMS
$        FOR 123467,125063,125065,125067,126863,126867 (ENGINE MOUNTS)
$
RBE1     125063  25061   123     26861   3       26865   23              FEM F1
+FEM F1    UM    125063  123     126863  123
RBE1     126867  25089   123     25049   2       1008    23              FEM F2
+FEM F2    UM    126867  123     125065  123     125067  123
RBE1     123467  21369   123     1007    3       21361   13              FEM F3
+FEM F3    UM    123467  123
$
CONROD   109001  123467  123487  4130    0.0887
CONROD   1070012 125063  125383  4130    0.1261
CONROD   108001  125065  125387  4130    0.1261
CONROD   1070011 125067  125387  4130    0.1261
CONROD   1060012 126863  125383  4130    0.1261
CONROD   1060011 126867  125387  4130    0.1261
$
$                              ENGINE
$                            209-060-005
$
$     REPLACE MPC EQUATIONS WITH RIGID ELEMENTS 9/17/87
$          R.V  DOMPKA    TO REMOVE N-SET PROBLEMS
$        FOR 1029--1019 AND 1020  (ENGINE LUMPED MASS MODEL)
$
$
RBE2     1248001   1029    123456  1019    1020
$
$
$
$
```

```
$
$                              MEMBRANE PROPERTIES
$
$
PQDMEM   0082024 2024    0.008
PQDMEM   0100076 0076    0.010
PQDMEM   0122024 2024    0.012
PQDMEM   0127075 7075    0.012
PQDMEM   0129046 9046    0.012
PQDMEM   0152014 2014    0.015
PQDMEM   0162024 2024    0.016
PQDMEM   0168046 9046    0.018
PQDMEM   0200076 0076    0.020
PQDMEM   0202024 2024    0.020
PQDMEM   0212024 2024    0.021
PQDMEM   0227075 7075    0.022
PQDMEM   0242024 2024    0.024
PQDMEM   025     2024    0.025
PQDMEM   0250057 0057    0.025
PQDMEM   0252024 2024    0.025
PQDMEM   0282024 2024    0.028
PQDMEM   0287075 7075    0.028
PQDMEM   0288046 9046    0.028
PQDMEM   0300076 0076    0.030
PQDMEM   032     2024    0.032
PQDMEM   0322014 2014    0.032
PQDMEM   0322024 2024    0.032
PQDMEM   0327075 7075    0.032
PQDMEM   0329046 9046    0.032
PQDMEM   0362024 2024    0.036
PQDMEM   0402024 2024    0.040
PQDMEM   0407075 7075    0.040
PQDMEM   0492024 2024    0.049
PQDMEM   0507075 7075    0.050
PQDMEM   0508046 9046    0.050
PQDMEM   0522024 2024    0.052
PQDMEM   0637075 7075    0.063
PQDMEM   0669046 9046    0.066
PQDMEM   0682024 2024    0.068
PQDMEM   0727075 7075    0.072
PQDMEM   0857075 7075    0.085
PQDMEM   0958046 9046    0.095
PQDMEM   1007075 7075    0.100
PQDMEM   1252014 2014    0.125
PQDMEM   2002014 2014    0.200
PQDMEM   4002014 2014    0.400
PTRMEM   0082024 2024    0.008
PTRMEM   0100076 0076    0.010
PTRMEM   0122024 2024    0.012
PTRMEM   0127075 7075    0.012
PTRMEM   0129046 9046    0.012
PTRMEM   0152014 2014    0.015
PTRMEM   0162024 2024    0.016
PTRMEM   0167075 7075    0.016
PTRMEM   0168046 9046    0.016
PTRMEM   0200076 0076    0.020
PTRMEM   0202024 2024    0.020
PTRMEM   0207075 7075    0.020
PTRMEM   0212024 2024    0.021
PTRMEM   0227075 7075    0.022
```

```
PTRMEM   0242024 2024     0.024
PTRMEM   025     2024     0.025
PTRMEM   0250057 0057     0.025
PTRMEM   0252024 2024     0.025
PTRMEM   0257075 7075     0.025
PTRMEM   0259046 9046     0.025
PTRMEM   0282024 2024     0.028
PTRMEM   0300076 0076     0.030
PTRMEM   032     2024     0.032
PTRMEM   0322014 2014     0.032
PTRMEM   0322024 2024     0.032
PTRMEM   0327075 7075     0.032
PTRMEM   0329046 9046     0.032
PTRMEM   0402024 2024     0.040
PTRMEM   0407075 7075     0.040
PTRMEM   0492024 2024     0.049
PTRMEM   0507075 7075     0.050
PTRMEM   0509046 9046     0.050
PTRMEM   0527075 7075     0.052
PTRMEM   0637075 7075     0.063
PTRMEM   0657075 7075     0.065
PTRMEM   0717075 7075     0.071
PTRMEM   0727075 7075     0.072
PTRMEM   0807075 7075     0.080
PTRMEM   0857075 7075     0.085
PTRMEM   0959046 9046     0.095
PTRMEM   1007075 7075     0.100
PTRMEM   1252014 2014     0.125
PTRMEM   150     2014     0.150
PTRMEM   1552014 2014     0.155
PTRMEM   18157   2014     0.18157
PTRMEM   2002014 2014     0.200
PTRMEM   4002014 2014     0.400
$
$
$                          SHEAR PANEL PROPERTIES
$
$
PSHEAR   0082024 2024     0.008
PSHEAR   0100076 0076     0.010
PSHEAR   0122024 2024     0.012
PSHEAR   0127075 7075     0.012
PSHEAR   0129046 9046     0.012
PSHEAR   0152014 2014     0.015
PSHEAR   0162024 2024     0.016
PSHEAR   0167075 7075     0.016
PSHEAR   0169046 9046     0.016
PSHEAR   0200076 0076     0.020
PSHEAR   0202024 2024     0.020
PSHEAR   0207075 7075     0.020
PSHEAR   0212024 2024     0.021
PSHEAR   0227075 7075     0.022
PSHEAR   0242024 2024     0.024
PSHEAR   0250057 0057     0.025
PSHEAR   0252024 2024     0.025
PSHEAR   0257075 7075     0.025
PSHEAR   0259046 9046     0.025
PSHEAR   0282024 2024     0.028
PSHEAR   0292024 2024     0.029
PSHEAR   0300076 0076     0.030
```

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PSHEAR   0322024 2024     0.032
PSHEAR   0327075 7075     0.032
PSHEAR   0329046 9046     0.032
PSHEAR   0402024 2024     0.040
PSHEAR   0407075 7075     0.040
PSHEAR   0409046 9046     0.040
PSHEAR   0417075 7075     0.041
PSHEAR   0492024 2024     0.049
PSHEAR   0507075 7075     0.050
PSHEAR   0509046 9046     0.050
PSHEAR   0527075 7075     0.052
PSHEAR   063     7075     0.063
PSHEAR   06416   2014     0.06416
PSHEAR   0657075 7075     0.065
PSHEAR   0717075 7075     0.071
PSHEAR   07149   2014     0.07149
PSHEAR   0727075 7075     0.072
PSHEAR   07278   2014     0.07278
PSHEAR   07402   2014     0.07402
PSHEAR   07505   2014     0.07505
PSHEAR   0807075 7075     0.080
PSHEAR   0817075 7075     0.081
PSHEAR   100     2014     0.100
PSHEAR   1007075 7075     0.100
PSHEAR   11816   2014     0.11816
PSHEAR   12381   2014     0.12381
PSHEAR   125     2014     0.125
PSHEAR   1252014 2014     0.125
PSHEAR   12728   2014     0.12728
PSHEAR   12866   2014     0.12866
PSHEAR   150     2014     0.150
PSHEAR   17088   2014     0.17088
PSHEAR   17410   2014     0.17410
PSHEAR   17480   2014     0.17480
PSHEAR   17735   2014     0.17735
PSHEAR   18157   2014     0.18157
PSHEAR   200     2014     0.200
PSHEAR   2002014 2014     0.200
PSHEAR   400     2014     0.400
PSHEAR   4002014 2014     0.400
$
$
$                          MATERIAL CARDS
$
$
MAT1*    1               1.0+6           1.0+6
MAT1*    10              1.0
MAT1*    0057            3.8368+6        0.8+6           0.32
MAT1*    0076            3.8368+6        0.8+6           0.32
MAT1*    2014            9.4069+6        4.0+6
MAT1*    2024            9.4069+6        4.0+6
MAT1*    7075            9.2069+6        3.9+6
MAT1*    4130            28.435+6        11.0+6
MAT1*    4340            28.435+6        11.0+6
MAT1*    4820            28.435+6        11.0+6
MAT1*    9046            19.398+6        8.5+6
$MAT1      0057      3.2+6     0.8+6   0.32
$MAT1      0076      3.2+6     0.8+6   0.32
$MAT1      2014     10.5+6     4.0+6
$MAT1      2024     10.5+6     4.0+6
```

```
$MAT1     7075     10.3+6    3.9+6
$MAT1     4130     29.0+6   11.0+6
$MAT1     4340     29.0+6   11.0+6
$MAT1     4620     29.0+6   11.0+6
$MAT1     9046     17.5+6    6.5+6
$----------------
$  The following cards are added by Weiyu Zhou to define the
$  viscous damping properties
$----------------
PVISC*   1                0.0              0.0
PVISC*   10               0.0              0.0
PVISC*   0076             1.847569         0.0
PVISC*   2014             98.13088         34.85099
PVISC*   2024             98.13098         34.85099
PVISC*   7075             98.13098         34.85099
PVISC*   4130             99.28947         0.0
PVISC*   4340             99.28947         0.0
PVISC*   4620             99.28947         0.0
PVISC*   9046             200.0            0.0
$----------------
$  The following cards are added by Weiyu Zhou to add the viscous
$  damper connections
$----------------
   CVISC    20411    7075   222002   222202
   CVISC    20412    7075   222202   222302
   CVISC    20413    7075   222302   222301
   CVISC    20414    7075   222301   222201
   CVISC    20415    7075   222201   222001
   CVISC    20451    7075   214902   215102
   CVISC    20452    7075   215102   215202
   CVISC    20453    7075   215202   215201
   CVISC    20454    7075   215201   215101
   CVISC    20455    7075   215101   214901
   CVISC    20511    2024     1023   214901
   CVISC    20512    2024   214901   222001
   CVISC    20513    2024   222001     1025
   CVISC    20521    2024     1024   214902
   CVISC    20522    2024   214902   222002
   CVISC    20523    2024   222002     1026
   CVISC   101102    2024     2501     2502
   CVISC   101113    2024     2501     2513
   CVISC   102103    2024     2502     2503
   CVISC   103104    2024     2503     2504
   CVISC   104105    2024     2504     2505
   CVISC   105106    2024     2505     2506
   CVISC   106107    2024     2506     2507
   CVISC   107108    2024     2507     2508
   CVISC   108109    2024     2508     2509
   CVISC   109110    2024     2509     2510
   CVISC   110111    2024     2510     2511
   CVISC   111112    2024     2511     2512
   CVISC   112113    2024     2512     2513
   CVISC   114115    7075     2514     2515
   CVISC   114126    7075     2514     2526
   CVISC   115116    7075     2515     2516
   CVISC   116117    7075     2516     2517
   CVISC   117118    7075     2517     2518
   CVISC   118119    7075     2518     2519
   CVISC   119120    7075     2519     2520
   CVISC   120121    7075     2520     2521
   CVISC   121122    7075     2521     2522
   CVISC   122123    7075     2522     2523
   CVISC   123124    7075     2523     2524
   CVISC   124125    7075     2524     2525
   CVISC   125126    7075     2525     2526
   CVISC   127128    2024     2527     2528
   CVISC   127139    2024     2527     2539
   CVISC   128129    2024     2528     2529
   CVISC   129130    2024     2529     2530
   CVISC   130131    2024     2530     2531
   CVISC   131132    2024     2531     2532
   CVISC   132133    2024     2532     2533
   CVISC   133134    2024     2533     2534
   CVISC   134135    2024     2534     2535
   CVISC   135136    2024     2535     2536
   CVISC   136137    2024     2536     2537
   CVISC   137138    2024     2537     2538
   CVISC   138139    2024     2538     2539
   CVISC   140141    2024     2540     2541
   CVISC   140152    2024     2540     2552
   CVISC   141142    2024     2541     2542
   CVISC   142143    2024     2542     2543
   CVISC   143144    2024     2543     2544
   CVISC   144145    2024     2544     2545
   CVISC   145146    2024     2545     2546
   CVISC   146147    2024     2546     2547
   CVISC   147148    2024     2547     2548
   CVISC   148149    2024     2548     2549
   CVISC   149150    2024     2549     2550
   CVISC   150151    2024     2550     2551
   CVISC   151152    2024     2551     2552
   CVISC   153154    2024     2553     2554
   CVISC   153165    2024     2553     2565
   CVISC   154155    2024     2554     2555
   CVISC   155156    2024     2555     2556
   CVISC   156157    2024     2556     2557
   CVISC   157158    2024     2557     2558
   CVISC   158159    2024     2558     2559
   CVISC   159160    2024     2559     2560
   CVISC   160161    2024     2560     2561
   CVISC   161162    2024     2561     2562
   CVISC   162163    2024     2562     2563
   CVISC   163164    2024     2563     2564
   CVISC   164165    2024     2564     2565
   CVISC   166167    2024     2566     2567
   CVISC   166178    2024     2566     2578
   CVISC   167168    2024     2567     2568
   CVISC   168169    2024     2568     2569
   CVISC   169170    2024     2569     2570
   CVISC   170171    2024     2570     2571
   CVISC   171172    2024     2571     2572
   CVISC   172173    2024     2572     2573
   CVISC   173174    2024     2573     2574
   CVISC   174175    2024     2574     2575
   CVISC   175176    2024     2575     2576
   CVISC   176177    2024     2576     2577
   CVISC   177178    2024     2577     2578
   CVISC   179180    2024     2579     2580
   CVISC   179181    2024     2579     2581
   CVISC   180181    2024     2580     2581
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CVISC	181182	2024	2581	2582
CVISC	182183	2024	2582	2583
CVISC	183184	2024	2583	2584
CVISC	184185	2024	2584	2585
CVISC	185186	2024	2585	2586
CVISC	186187	2024	2586	2587
CVISC	187188	2024	2587	2588
CVISC	188189	2024	2588	2589
CVISC	189190	2024	2589	2590
CVISC	190191	2024	2590	2591
CVISC	192193	2024	2592	2593
CVISC	192204	2024	2592	2604
CVISC	193194	2024	2593	2594
CVISC	194195	2024	2594	2595
CVISC	195196	2024	2595	2596
CVISC	196197	2024	2596	2597
CVISC	197198	2024	2597	2598
CVISC	198199	2024	2598	2599
CVISC	199200	2024	2599	2600
CVISC	200201	2024	2600	2601
CVISC	201202	2024	2601	2602
CVISC	202203	2024	2602	2603
CVISC	203204	2024	2603	2604
CVISC	205206	2024	2605	2606
CVISC	205217	2024	2605	2617
CVISC	206207	2024	2606	2607
CVISC	207208	2024	2607	2608
CVISC	208209	2024	2608	2609
CVISC	209210	2024	2609	2610
CVISC	210211	2024	2610	2611
CVISC	211212	2024	2611	2612
CVISC	212213	2024	2612	2613
CVISC	213214	2024	2613	2614
CVISC	214215	2024	2614	2615
CVISC	215216	2024	2615	2616
CVISC	216217	2024	2616	2617
CVISC	229230	7075	2629	2630
CVISC	229242	7075	2629	2642
CVISC	229258	7075	2629	2658
CVISC	230231	7075	2630	2631
CVISC	231232	7075	2631	2632
CVISC	232233	7075	2632	2633
CVISC	233234	7075	2633	2634
CVISC	234235	7075	2634	2635
CVISC	234261	7075	2634	2661
CVISC	235236	7075	2635	2636
CVISC	236237	7075	2636	2637
CVISC	236263	7075	2636	2663
CVISC	237238	7075	2637	2638
CVISC	238239	7075	2638	2639
CVISC	239240	7075	2639	2640
CVISC	240241	7075	2640	2641
CVISC	241242	7075	2641	2642
CVISC	243244	2024	2643	2644
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CVISC	244245	2024	2644	2645
CVISC	245246	2024	2645	2646
CVISC	246247	2024	2646	2647
CVISC	247248	2024	2647	2648
CVISC	248249	2024	2648	2649

CVISC	248270	2024	2648	2670
CVISC	249250	2024	2649	2650
CVISC	250251	2024	2650	2651
CVISC	250272	2024	2650	2672
CVISC	251252	2024	2651	2652
CVISC	252253	2024	2652	2653
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CVISC	254255	2024	2654	2655
CVISC	255256	2024	2655	2656
CVISC	256257	2024	2656	2657
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CVISC	259260	7075	2659	2660
CVISC	260261	7075	2660	2661
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CVISC	263264	7075	2663	2664
CVISC	264265	7075	2664	2665
CVISC	265266	7075	2665	2666
CVISC	266242	7075	2666	2642
CVISC	267268	2024	2667	2668
CVISC	268269	2024	2668	2669
CVISC	269270	2024	2669	2670
CVISC	270271	2024	2670	2671
CVISC	271272	2024	2671	2672
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CVISC	273274	2024	2673	2674
CVISC	274275	2024	2674	2675
CVISC	275256	2024	2675	2656
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CVISC	289297	2024	2689	2697
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CVISC	293294	2024	2693	2694
CVISC	293297	2024	2693	2697
CVISC	295292	2024	2695	2692
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CVISC	1210101	7075	21383	21383
CVISC	1210211	7075	18687	18987
CVISC	1210212	7075	18987	21187
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CVISC	1865600	2014	18656	61914
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CVISC	1874546	2014	18645	18646

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CVISC	1875857	2014	18656	18657
CVISC	1875763	2014	18657	18663
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CVISC	1876667	2014	18666	18667
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CVISC	1974142	2014	19741	19742
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CVISC	1974243	2014	19742	19743
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CVISC	1974345	2014	19743	19745
CVISC	1974363	2014	19743	19763
CVISC	1974547	2014	19745	19747
CVISC	1974748	2014	19747	19748
CVISC	1974767	2014	19747	1006
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CVISC	1974858	2014	19748	19758
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CVISC	1975100	2014	19751	61923
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CVISC	1975262	2014	19752	19762
CVISC	1975859	2014	19758	19759
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CVISC	1975969	2014	19759	19769
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CVISC	1976869	2014	19768	19769
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CVISC	2124345	2014	21343	21345
CVISC	2124547	2014	21345	21347
CVISC	2124749	2014	21347	21349
CVISC	2134100	2014	21341	61935
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CVISC	3020012	7075	19173	19773
CVISC	3020015	7075	18677	19177
CVISC	3020016	7075	19177	19777
CVISC	3020017	7075	19777	20977
CVISC	3020018	7075	20977	21377
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CVISC	3440012	2014	21485	21387
CVISC	3530251	1	200070	200078
CVISC	3530252	1	200078	200079
CVISC	3530253	1	200079	200087
CVISC	3530254	1	200087	200096
CVISC	3530255	1	200096	200101
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CVISC	4000072	4620	52045	520088
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CVISC	4014243	2024	40142	40143
CVISC	4014345	2024	40143	1011
CVISC	4014347	2024	40143	40147
CVISC	4014547	2024	1011	40147
CVISC	4014748	2024	40147	40148
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CVISC	4050012	1	200105	211104
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CVISC	4500070	1	1021	200085
CVISC	4500071	1	200085	200101
CVISC	4500072	1	200101	200106
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CVISC	4500075	1	200114	200121
CVISC	4500076	1	200121	200129
CVISC	4500077	1	200129	200137
CVISC	4500078	1	200137	200145
CVISC	4500079	1	200145	200153
CVISC	4500080	1	200153	1022
CVISC	4500081	1	1022	200162
CVISC	5131922	2014	61913	62213
CVISC	5171922	2014	61917	62217
CVISC	5221922	2014	61922	62221
CVISC	5222813	2014	62213	62811
CVISC	5222817	2014	62217	62819
CVISC	5222821	2014	62221	62821
CVISC	5222824	2014	62224	62821
CVISC	5222826	2014	62226	62829
CVISC	5222829	2014	62229	62829
CVISC	5222831	2014	62231	62831
CVISC	5222839	2014	62239	62839

CVISC	6241922	2014	61924	62224
CVISC	6261922	2014	61926	62226
CVISC	6281922	2014	61928	62229
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CVISC	6361922	2014	61936	62239
CVISC	7131922	2014	71913	72213
CVISC	7171922	2014	71917	72217
CVISC	7221922	2014	71922	72221
CVISC	7222813	2014	72213	72811
CVISC	7222817	2014	72217	72819
CVISC	7222821	2014	72221	72821
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CVISC	7222826	2014	72226	72829
CVISC	7222829	2014	72229	72829
CVISC	7222831	2014	72231	72831
CVISC	7222839	2014	72239	72839
CVISC	7241922	2014	71924	72224
CVISC	7261922	2014	71926	72226
CVISC	7281922	2014	71928	72229
CVISC	7341922	2014	71934	72231
CVISC	7361922	2014	71936	72239
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CVISC	2	7075	2631	2659
CVISC	3	7075	2659	2658
CVISC	4	7075	2658	2630
CVISC	5	7075	2631	2632
CVISC	6	7075	2632	2660
CVISC	7	7075	2660	2659
CVISC	8	7075	2659	2631
CVISC	9	7075	2632	2633
CVISC	10	7075	2633	2661
CVISC	11	7075	2661	2660
CVISC	12	7075	2660	2632
CVISC	13	7075	2629	2659
CVISC	14	7075	2659	2685
CVISC	15	7075	2685	2642
CVISC	16	7075	2642	2629
CVISC	17	7075	2659	2660
CVISC	18	7075	2660	2664
CVISC	19	7075	2664	2665
CVISC	20	7075	2665	2659
CVISC	21	7075	2660	2661
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CVISC	28	7075	2662	2661
CVISC	29	7075	2662	2635
CVISC	30	7075	2635	2636
CVISC	31	7075	2636	2663
CVISC	32	7075	2663	2662
CVISC	33	7075	2642	2666
CVISC	34	7075	2666	2640
CVISC	35	7075	2640	2641
CVISC	36	7075	2841	2642
CVISC	37	7075	2666	2665
CVISC	38	7075	2665	2639
CVISC	39	7075	2639	2640
CVISC	40	7075	2640	2666
CVISC	41	7075	2685	2664
CVISC	42	7075	2664	2638
CVISC	43	7075	2638	2639
CVISC	44	7075	2639	2665
CVISC	45	7075	2664	2663
CVISC	46	7075	2663	2637
CVISC	47	7075	2637	2638
CVISC	48	7075	2638	2664
CVISC	49	7075	2643	2644
CVISC	50	7075	2644	2667
CVISC	51	7075	2667	2657
CVISC	52	7075	2657	2643
CVISC	53	7075	2644	2645
CVISC	54	7075	2645	2668
CVISC	55	7075	2668	2667
CVISC	56	7075	2667	2644
CVISC	57	7075	2645	2646
CVISC	58	7075	2646	2669
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CVISC	1382131	2024	13821	13831
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CVISC	1382707	7075	13807	13827
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CVISC	1384523	9046	14847	14867
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CVISC	1482101	7075	14801	14821
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CVISC	1570013	7075	8567	9367
CVISC	1570014	7075	9367	11567
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CVISC	1796103	2024	7061	7071
CVISC	1796104	2024	8561	8571
CVISC	1796111	2024	8561	9361
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CVISC	1796113	2024	8561	8571
CVISC	1796114	2024	9361	9371
CVISC	1796121	2024	9361	11561
CVISC	1796122	2024	9371	11571
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CVISC	1796131	2024	11561	13861
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CVISC	1796134	2024	13861	13871
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CVISC	1862325	7075	18623	18625
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CVISC	1862729	7075	18627	18629
CVISC	1862939	2014	18629	18639
CVISC	1863141	2014	18631	18641
CVISC	1863949	2014	18639	18649
CVISC	1864151	2014	18641	18651
CVISC	1864954	2014	18649	18654
CVISC	1865156	2014	18651	18656
CVISC	1865459	2014	18654	18659
CVISC	1865661	2014	18656	18661
CVISC	1865969	2014	18659	18669
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CVISC	1874241	2014	18641	18642
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CVISC	1874666	2014	18646	18666
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CVISC	1875251	2014	18651	18652
CVISC	1875347	2014	18647	18653
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CVISC	1875752	2014	18852	18657
CVISC	1875756	2014	18856	18657
CVISC	1875853	2014	18853	18658
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CVISC 1976151	2014	19751	19761
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CVISC 1976545	2014	19745	19765
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CVISC 2068917	76	21825	21827
CVISC 2068918	76	21827	21829
CVISC 2068921	76	21821	22721
CVISC 2068922	76	21823	22723
CVISC 2068923	76	21823	22723
CVISC 2068924	76	21825	22725
CVISC 2068925	76	21825	22725
CVISC 2068926	76	21827	22727
CVISC 2068927	76	21827	22727
CVISC 2068928	76	21829	22729
CVISC 2068931	76	21821	21823
CVISC 2068932	76	21823	21825
CVISC 2068933	76	21825	21827
CVISC 2068934	76	21827	21829
CVISC 2068935	76	22721	22723
CVISC 2068936	76	22723	22725
CVISC 2068937	76	22725	22727
CVISC 2068938	76	22727	22729
CVISC 2069001	76	22723	25021
CVISC 2069002	76	22725	25025
CVISC 2069003	76	22725	25025
CVISC 2069004	76	22727	25029
CVISC 2069011	76	22723	22725
CVISC 2069012	76	22725	22727
CVISC 2069013	76	25021	25025
CVISC 2069014	76	25025	25029
CVISC 2069101	76	21321	21821
CVISC 2069102	76	21323	21823
CVISC 2069103	76	21323	21823
CVISC 2069104	76	21325	21825
CVISC 2069105	76	21325	21825
CVISC 2069106	76	21327	21827
CVISC 2069107	76	21327	21827
CVISC 2069108	76	21329	21829

CVISC 2069111	76	21321	21323
CVISC 2069112	76	21323	21325
CVISC 2069113	76	21325	21327
CVISC 2069114	76	21327	21329
CVISC 2069115	76	21821	21823
CVISC 2069116	76	21823	21825
CVISC 2069117	76	21825	21827
CVISC 2069118	76	21827	21829
CVISC 2070091	2024	25021	26821
CVISC 2070131	2024	26821	26825
CVISC 2070132	2024	26825	26829
CVISC 2070151	2024	26829	29929
CVISC 2070211	2024	29921	29925
CVISC 2070212	2024	29925	29929
CVISC 2070231	2024	25021	25025
CVISC 2070232	2024	25025	25029
CVISC 2070511	2024	25029	26829
CVISC 2070551	2024	26821	26825
CVISC 2070552	2024	26825	26829
CVISC 2070571	7075	26821	29921
CVISC 2072701	2024	25021	26821
CVISC 2072702	2024	25025	26825
CVISC 2072703	2024	25025	26825
CVISC 2072704	2024	25029	26829
CVISC 2072711	2024	25021	25025
CVISC 2072712	2024	25025	25029
CVISC 2072713	2024	26821	26825
CVISC 2072714	2024	26825	26829
CVISC 2076501	2024	26821	29921
CVISC 2076502	2024	26825	29925
CVISC 2076503	2024	26825	29925
CVISC 2076504	2024	26829	29929
CVISC 2076511	2024	26821	26825
CVISC 2076512	2024	26825	26829
CVISC 2076513	2024	29921	29925
CVISC 2076514	2024	29925	29929
CVISC 2077701	2024	9343	11543
CVISC 2077702	2024	11543	13843
CVISC 2077703	2024	13843	14843
CVISC 2077704	2024	9347	11547
CVISC 2077705	2024	11547	13847
CVISC 2077706	2024	13847	14847
CVISC 2077707	2024	9343	9347
CVISC 2077708	2024	11543	11547
CVISC 2077709	2024	11543	11547
CVISC 2077710	2024	13843	13847
CVISC 2077711	2024	13843	13847
CVISC 2077712	2024	14843	14847
CVISC 2078101	2024	25021	26821
CVISC 2078102	2024	25025	26825
CVISC 2078103	2024	25025	26825
CVISC 2078104	2024	25029	26829
CVISC 2078111	2024	25021	25025
CVISC 2078112	2024	25025	25029
CVISC 2078113	2024	26821	26825
CVISC 2078114	2024	26825	26829
CVISC 2078701	2024	26821	29921
CVISC 2078702	2024	26825	29925
CVISC 2078703	2024	26825	29925
CVISC 2078704	2024	26829	29929

CVISC 2078711	2024	26821	26825
CVISC 2078712	2024	26825	26829
CVISC 2078713	2024	29921	29925
CVISC 2078714	2024	29925	29929
CVISC 2080231	7075	16483	18683
CVISC 2080232	7075	16487	18687
CVISC 2081101	2024	14887	16487
CVISC 2081102	2024	14889	1005
CVISC 2081103	2024	14887	14889
CVISC 2081104	2024	16487	1005
CVISC 2081301	2024	16481	18681
CVISC 2081302	2024	16483	18683
CVISC 2081303	2024	16483	18683
CVISC 2081304	2024	16485	18685
CVISC 2081305	2024	16485	18685
CVISC 2081306	2024	16487	18687
CVISC 2081307	2024	16487	18687
CVISC 2081308	2024	1005	18689
CVISC 2081309	2024	16481	16483
CVISC 2081310	2024	16483	16485
CVISC 2081311	2024	16485	16487
CVISC 2081312	2024	16487	1005
CVISC 2081313	2024	18681	18683
CVISC 2081314	2024	18683	18685
CVISC 2081315	2024	18685	18687
CVISC 2081316	2024	18687	18689
CVISC 2084501	2024	14881	16481
CVISC 2084502	2024	16481	18681
CVISC 2084511	2024	14889	1005
CVISC 2084512	2024	1005	18889
CVISC 2084521	2024	14881	14883
CVISC 2084522	2024	14883	14887
CVISC 2084523	2024	14887	14889
CVISC 2084531	2024	16481	16483
CVISC 2084532	2024	16483	16485
CVISC 2084533	2024	16485	16487
CVISC 2084534	2024	16487	1005
CVISC 2084541	2024	18681	18683
CVISC 2084542	2024	18683	18685
CVISC 2084543	2024	18685	18687
CVISC 2084544	2024	18687	18689
CVISC 2087901	2024	14881	16481
CVISC 2087902	2024	14883	16483
CVISC 2087903	2024	14887	16487
CVISC 2087904	2024	14889	1005
CVISC 2087905	2024	14881	14883
CVISC 2087906	2024	14887	14889
CVISC 2087907	2024	16481	16483
CVISC 2087908	2024	16487	1005
CVISC 2087921	2024	16481	18681
CVISC 2087922	2024	16483	18683
CVISC 2087923	2024	16483	18683
CVISC 2087924	2024	16485	18685
CVISC 2087925	2024	16485	18685
CVISC 2087926	2024	16487	18687
CVISC 2087927	2024	16487	18687
CVISC 2087928	2024	1005	18689
CVISC 2087929	2024	16481	16483
CVISC 2087930	2024	16483	16485
CVISC 2087931	2024	16485	16487

CVISC 2087932	2024	16487	1005
CVISC 2087933	2024	18681	18683
CVISC 2087934	2024	18683	18685
CVISC 2087935	2024	18685	18687
CVISC 2087936	2024	18687	18689
CVISC 2090051	7075	25061	26861
CVISC 2090052	7075	1007	26865
CVISC 2090053	7075	1007	26865
CVISC 2090054	7075	25069	1008
CVISC 2090055	7075	25061	1007
CVISC 2090056	7075	1007	25069
CVISC 2090057	7075	26861	26865
CVISC 2090058	7075	26865	1008
CVISC 2090411	2024	25061	1007
CVISC 2090412	2024	1007	25069
CVISC 2090431	2024	26861	26865
CVISC 2090432	2024	26865	1008
CVISC 2091011	2024	1007	26865
CVISC 2091012	2024	25069	1008
CVISC 2091031	2024	25061	26861
CVISC 2091032	2024	1007	26865
CVISC 2091270	7075	21361	25061
CVISC 2091271	7075	21367	25069
CVISC 2091272	7075	21361	21363
CVISC 2091273	7075	21363	21364
CVISC 2091274	7075	21364	21366
CVISC 2091275	7075	21366	21367
CVISC 2091276	7075	25061	1007
CVISC 2091277	7075	1007	25069
CVISC 2091281	7075	26861	29961
CVISC 2091282	7075	1008	1009
CVISC 2091283	7075	26861	26865
CVISC 2091284	7075	26865	1008
CVISC 2091285	7075	29961	29965
CVISC 2091286	7075	29965	1009
CVISC 2092501	9046	21363	25061
CVISC 2092502	9046	21364	1007
CVISC 2092503	9046	21366	1007
CVISC 2092504	9046	21367	25069
CVISC 2092511	9046	21363	21364
CVISC 2092512	9046	21366	21367
CVISC 2092513	9046	25061	1007
CVISC 2092514	9046	1007	25069
CVISC 2092521	9046	25061	26861
CVISC 2092522	9046	1007	26865
CVISC 2092523	9046	1007	26865
CVISC 2092524	9046	25069	1008
CVISC 2092531	9046	25061	1007
CVISC 2092532	9046	1007	25069
CVISC 2092533	9046	26861	26865
CVISC 2092534	9046	26865	1008
CVISC 2092541	9046	26861	29961
CVISC 2092542	9046	26865	29965
CVISC 2092543	9046	26865	29965
CVISC 2092544	9046	1008	1009
CVISC 2092551	9046	26861	26865
CVISC 2092552	9046	26865	1008
CVISC 2092553	9046	29961	29965
CVISC 2092554	9046	29965	1009
CVISC 2092701	9046	25061	26861

CVISC 2092702	9046	1007	26865
CVISC 2092703	9046	1007	26865
CVISC 2092704	9046	25069	1008
CVISC 2092711	9046	25061	1007
CVISC 2092712	9046	1007	25069
CVISC 2092713	9046	26861	26865
CVISC 2092714	9046	26865	1008
CVISC 2092901	76	21363	25061
CVISC 2092902	76	21364	1007
CVISC 2092903	76	21366	1007
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CVISC 2092911	76	21363	21364
CVISC 2092912	76	21366	21367
CVISC 2092913	76	25061	1007
CVISC 2092914	76	1007	25069
CVISC 2092921	76	25061	26861
CVISC 2092922	76	1007	26865
CVISC 2092923	76	1007	26865
CVISC 2092924	76	25069	1008
CVISC 2092931	76	25061	1007
CVISC 2092932	76	1007	25069
CVISC 2092933	76	26861	26865
CVISC 2092934	76	26865	1008
CVISC 2092941	76	26861	29961
CVISC 2092942	76	26865	29965
CVISC 2092943	76	26865	29965
CVISC 2092944	76	1008	1009
CVISC 2092951	76	26861	26865
CVISC 2092952	76	26865	1008
CVISC 2092953	76	29961	29965
CVISC 2092954	76	29965	1009
CVISC 2100451	7075	6169	7069
CVISC 2100452	7075	7069	8569
CVISC 2100453	7075	8569	9369
CVISC 2100551	7075	9369	11569
CVISC 2100552	7075	11569	13869
CVISC 2100553	7075	13869	14869
CVISC 2100711	7075	14869	18669
CVISC 2108901	2024	6167	7067
CVISC 2108902	2024	7067	8567
CVISC 2108903	2024	8567	9367
CVISC 2108904	2024	9367	11567
CVISC 2108905	2024	11567	13867
CVISC 2108906	2024	13867	14867
CVISC 2108907	2024	6169	7069
CVISC 2108908	2024	7069	8569
CVISC 2108909	2024	8569	9369
CVISC 2108910	2024	9369	11569
CVISC 2108911	2024	11569	13869
CVISC 2108912	2024	13869	14869
CVISC 2108913	2024	6167	6169
CVISC 2108914	2024	7067	7069
CVISC 2108915	2024	7067	7069
CVISC 2108916	2024	8567	8569
CVISC 2108917	2024	8567	8569
CVISC 2108918	2024	9367	9369
CVISC 2108919	2024	9367	9369
CVISC 2108920	2024	11567	11569
CVISC 2108921	2024	11567	11569
CVISC 2108922	2024	13867	13869

CVISC 2108923	2024	13867	13869
CVISC 2108924	2024	14867	14869
CVISC 2110101	7075	4633	6131
CVISC 2110102	7075	6131	7031
CVISC 2110103	7075	7031	8531
CVISC 2110104	7075	8531	9331
CVISC 2110105	7075	9331	11531
CVISC 2110106	7075	11531	13831
CVISC 2110107	7075	13831	14831
CVISC 2110501	2024	1003	11537
CVISC 2110502	2024	11537	1004
CVISC 2110503	2024	1004	14837
CVISC 2110504	2024	9339	11539
CVISC 2110505	2024	11539	13839
CVISC 2110506	2024	13839	14839
CVISC 2110507	2024	1003	9339
CVISC 2110508	2024	11537	11539
CVISC 2110509	2024	11537	11539
CVISC 2110510	2024	1004	13839
CVISC 2110511	2024	1004	13839
CVISC 2110512	2024	14837	14839
CVISC 2110531	7075	1001	6139
CVISC 2110532	7075	6139	7031
CVISC 2110533	7075	7039	8539
CVISC 2110534	7075	8539	9339
CVISC 2110535	7075	9339	11539
CVISC 2110536	7075	11539	13839
CVISC 2110537	7075	13839	14839
CVISC 2110701	2024	9331	11531
CVISC 2110702	2024	11531	13831
CVISC 2110703	2024	13831	14831
CVISC 2110704	2024	9333	11533
CVISC 2110705	2024	11533	13833
CVISC 2110706	2024	13833	14833
CVISC 2110707	2024	9331	9333
CVISC 2110708	2024	11531	11533
CVISC 2110709	2024	11531	11533
CVISC 2110710	2024	13831	13833
CVISC 2110711	2024	13831	13833
CVISC 2110712	2024	14831	14833
CVISC 2120101	2024	13823	14823
CVISC 2120102	2024	13827	14827
CVISC 2120103	2024	13823	13827
CVISC 2120104	2024	14823	14827
CVISC 2132123	7075	21321	21323
CVISC 2132141	7075	21321	21341
CVISC 2132325	7075	21323	21325
CVISC 2132527	7075	21325	21327
CVISC 2132729	7075	21327	21329
CVISC 2132849	7075	21329	21349
CVISC 2134143	7075	21341	21343
CVISC 2134161	7075	21341	21361
CVISC 2134345	7075	21343	21345
CVISC 2134547	7075	21345	21347
CVISC 2134749	7075	21347	21349
CVISC 2134969	7075	21349	21369
CVISC 2136163	2024	21361	21363
CVISC 2136364	2024	21363	21364
CVISC 2136466	2024	21364	21366
CVISC 2136667	2024	21366	21367

CVISC 2136769	2024	21367	21369
CVISC 2170091	2024	1003	11537
CVISC 2170092	2024	11537	1004
CVISC 2170101	2024	9333	11533
CVISC 2170102	2024	11533	13833
CVISC 2170171	2024	9333	11533
CVISC 2170172	2024	11533	13833
CVISC 2170191	2024	9333	1003
CVISC 2170271	2024	13833	1004
CVISC 2170291	2024	1003	11537
CVISC 2170292	2024	11537	1004
CVISC 2171101	2024	9333	11533
CVISC 2171102	2024	11533	13833
CVISC 2171103	2024	1003	11537
CVISC 2171104	2024	11537	1004
CVISC 2171105	2024	9333	1003
CVISC 2171106	2024	11533	11537
CVISC 2171107	2024	11533	11537
CVISC 2171108	2024	13833	1004
CVISC 2173301	2024	9333	11533
CVISC 2173302	2024	11533	13833
CVISC 2173303	2024	1003	11537
CVISC 2173304	2024	11537	1004
CVISC 2173305	2024	9333	1003
CVISC 2173306	2024	11533	11537
CVISC 2173307	2024	11533	11537
CVISC 2173308	2024	13833	1004
CVISC 2190271	2024	9313	9317
CVISC 2190311	2024	9313	11503
CVISC 2190312	2024	11503	13803
CVISC 2190313	2024	9317	11507
CVISC 2190314	2024	11507	13807
CVISC 2190431	2024	13803	13807
CVISC 2191501	2024	9313	9317
CVISC 2191502	2024	11503	11507
CVISC 2191503	2024	9313	11503
CVISC 2191504	2024	9317	11507
CVISC 2191505	2024	11503	11507
CVISC 2191506	2024	13803	13807
CVISC 2191507	2024	11503	13803
CVISC 2191508	2024	11507	13807
CVISC 2191901	2024	9313	9317
CVISC 2191902	2024	11503	11507
CVISC 2191903	2024	9313	11503
CVISC 2191904	2024	9317	11507
CVISC 2191905	2024	11503	11507
CVISC 2191906	2024	13803	13807
CVISC 2191907	2024	11503	13803
CVISC 2191908	2024	11507	13807
CVISC 2200101	2024	13801	14801
CVISC 2200102	2024	13803	14803
CVISC 2200103	2024	13801	13803
CVISC 2200104	2024	14801	14803
CVISC 2200111	2024	13803	14803
CVISC 2200112	2024	13807	14807
CVISC 2200113	2024	13803	13807
CVISC 2200114	2024	14803	14807
CVISC 2200121	2024	13807	14807
CVISC 2200122	2024	13809	14809
CVISC 2200123	2024	13807	13809

CVISC 2200124	2024	14807	14809
CVISC 2200301	2024	22707	25007
CVISC 2200302	2024	22709	25009
CVISC 2200303	2024	22707	22709
CVISC 2200304	2024	25007	25009
CVISC 2200311	2024	22709	25009
CVISC 2200312	2024	22729	25029
CVISC 2200313	2024	22709	22729
CVISC 2200314	2024	25009	25029
CVISC 2200431	2024	13809	14809
CVISC 2200441	2024	13801	14801
CVISC 2200551	7075	15807	18607
CVISC 2200561	7075	15603	18603
CVISC 2200571	7075	22707	25007
CVISC 2200581	7075	22703	25003
CVISC 2200591	7075	18607	21807
CVISC 2200601	7075	18603	21803
CVISC 2201151	7075	25003	25007
CVISC 2201171	7075	25003	26801
CVISC 2201191	7075	25007	26809
CVISC 2206101	2024	13809	14809
CVISC 2206102	2024	13829	14829
CVISC 2206103	2024	13809	13829
CVISC 2206104	2024	14809	14829
CVISC 2206201	2024	13821	14821
CVISC 2206202	2024	13801	14801
CVISC 2206203	2024	13821	13801
CVISC 2206204	2024	14821	14801
CVISC 2206701	2024	22721	25021
CVISC 2206702	2024	22701	25001
CVISC 2206703	2024	22721	22701
CVISC 2206704	2024	25021	25001
CVISC 2206711	2024	22701	25001
CVISC 2206712	2024	22703	25003
CVISC 2206713	2024	22701	22703
CVISC 2206714	2024	25001	25003
CVISC 2207101	2024	18607	21807
CVISC 2207102	2024	18609	21809
CVISC 2207103	2024	18607	18609
CVISC 2207104	2024	21807	21809
CVISC 2207111	2024	18609	21809
CVISC 2207112	2024	18629	21329
CVISC 2207113	2024	18609	18629
CVISC 2207114	2024	21809	21329
CVISC 2207201	2024	18621	21321
CVISC 2207202	2024	18601	21801
CVISC 2207203	2024	18621	18601
CVISC 2207204	2024	21321	21801
CVISC 2207211	2024	18801	21801
CVISC 2207212	2024	18803	21803
CVISC 2207213	2024	18601	18603
CVISC 2207214	2024	21801	21803
CVISC 2207701	2024	15621	18621
CVISC 2207702	2024	15601	18601
CVISC 2207703	2024	15621	15601
CVISC 2207704	2024	18621	18601
CVISC 2207711	2024	15601	18601
CVISC 2207712	2024	15603	18603
CVISC 2207713	2024	15601	15603
CVISC 2207714	2024	18601	18603

CVISC 2207721	2024	15603	18803
CVISC 2207722	2024	15607	18807
CVISC 2207723	2024	15603	15607
CVISC 2207724	2024	18603	18607
CVISC 2207731	2024	15607	18807
CVISC 2207732	2024	15609	18809
CVISC 2207733	2024	15607	15609
CVISC 2207734	2024	18607	18609
CVISC 2207741	2024	15609	18609
CVISC 2207742	2024	15629	18629
CVISC 2207743	2024	15609	15629
CVISC 2207744	2024	18809	18629
CVISC 2380031	7075	9333	1003
CVISC 2500103	2024	25001	25003
CVISC 2500171	7075	6161	7061
CVISC 2500172	7075	7061	8561
CVISC 2500173	7075	8561	9361
CVISC 2500307	2024	25003	25007
CVISC 2500709	2024	25007	25009
CVISC 2500911	7075	9361	11561
CVISC 2500912	7075	11561	13861
CVISC 2500913	7075	13861	14861
CVISC 2500929	2024	25009	25029
CVISC 2501711	7075	14861	18661
CVISC 2502101	2024	25001	25021
CVISC 2502125	7075	25021	25025
CVISC 2502141	7075	25021	25041
CVISC 2502529	7075	25025	25029
CVISC 2502948	7075	25029	25049
CVISC 2504161	7075	25041	25061
CVISC 2504969	7075	25049	25069
CVISC 2508185	7075	25061	1007
CVISC 2508569	7075	1007	25069
CVISC 2507701	2024	6161	7061
CVISC 2507702	2024	7061	8561
CVISC 2507703	2024	8561	9361
CVISC 2507704	2024	9361	11561
CVISC 2507705	2024	11561	13861
CVISC 2507706	2024	13861	14861
CVISC 2507707	2024	6163	7063
CVISC 2507708	2024	7063	8563
CVISC 2507709	2024	8563	9363
CVISC 2507710	2024	9363	11563
CVISC 2507711	2024	11563	13863
CVISC 2507712	2024	13863	14863
CVISC 2507713	2024	6161	6163
CVISC 2507714	2024	7061	7063
CVISC 2507715	2024	7061	7063
CVISC 2507716	2024	8561	8563
CVISC 2507717	2024	8561	8563
CVISC 2507718	2024	9361	9363
CVISC 2507719	2024	9361	9363
CVISC 2507720	2024	11561	11563
CVISC 2507721	2024	11561	11563
CVISC 2507722	2024	13861	13863
CVISC 2507723	2024	13861	13863
CVISC 2507724	2024	14861	14863
CVISC 2510021	2014	7033	7043
CVISC 2510022	2014	7037	7047
CVISC 2570101	2024	18603	21803

CVISC 2570102	2024	18807	21807
CVISC 2570103	2024	18803	18807
CVISC 2570104	2024	21803	21807
CVISC 2590101	2024	22703	25003
CVISC 2590102	2024	22707	25007
CVISC 2590103	2024	22703	22707
CVISC 2590104	2024	25003	25007
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CVISC 2682141	2024	26821	26841
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CVISC 5003095	7075	11579	13879
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CVISC	230258	7075	2630	2658
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CVISC	235249	7075	2635	2649
CVISC	235262	7075	2635	2662
CVISC	236250	7075	2636	2650
CVISC	237251	7075	2637	2651
CVISC	237263	7075	2637	2663
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CVISC	239265	7075	2639	2665
CVISC	240254	7075	2640	2654
CVISC	240266	7075	2640	2666

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    CVISC  302304    2024    2702    2704
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    CVISC  320321    7075    2720    2721
    CVISC  321291    7075    2721    2691
    CVISC  321318    2024    2721    2718
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                                      END
$                                 ELEMENT DATA
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                       BUILT-UP TAILBOOM / NASGTB0306
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$   CONNECTION OF BUILT-UP TAILBOOM TO AH-1G FUSELAGE AT STATION 300
$    MPC EQUATIONS REPRESENT A ONE-TO-ONE CONNECTION OF LONGERON POINTS
$
MPC      1000    29921   1       1.0     2505    1       -1.0
MPC      1000    29921   2       1.0     2505    2       -1.0
MPC      1000    29921   3       1.0     2505    3       -1.0
MPC      1000    29929   1       1.0     2509    1       -1.0
MPC      1000    29929   2       1.0     2509    2       -1.0
MPC      1000    29929   3       1.0     2509    3       -1.0
MPC      1000    29961   1       1.0     2502    1       -1.0
MPC      1000    29961   2       1.0     2502    2       -1.0
MPC      1000    29961   3       1.0     2502    3       -1.0
MPC      1000    1009    1       1.0     2512    1       -1.0
MPC      1000    1009    2       1.0     2512    2       -1.0
MPC      1000    1009    3       1.0     2512    3       -1.0
$
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ORIGINAL PAGE IS
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$  CONNECTION OF TAIL ROTOR GEARBOX AND MAST TO BUILT-UP FIN AT STA 521
$    T/R MAST MODEL DIRECTLY FROM PREVIOUS AH-1G FEM FOR ELASTIC LINE
$
RBE2     52045    52045    123456  2689     2692     2693     2694     2695
RBE2     52945    52045       123  2690     2708
$RIGD1   52045    52045    296     297
$
$  CONNECTION OF TAILBOOM ELEVATOR TO THE BUILT-UP TAILBOOM AT STA 402
$    ELEVATOR MODEL DIRECTLY FROM PREVIOUS AH-1G FEM FOR ELASTIC LINE
$
RBE2     40145    101123456       2568     2569     2575     2576
$
$
CBAR     114115   114115     2514     2515     2619                2       +CB1001
+CB1001                   0.1406  -1.3358  -2.2635  0.1406  -1.3358  -2.2635
PBAR     1141157075      .225     .824     .004     .0001                  +PB1001
+PB1001  -2.6320           2.3680
CBAR     114126   114126     2514     2526     2619                2       +CB1002
+CB1002                   0.1356  0.0      -2.1838  0.1356  0.0      -2.1838
PBAR     1141267075      .196     .491     .004     .0001                  +PB1002
+PB1002  -2.1880           1.9120
CBAR     115116   115116     2515     2516     2619                2       +CB1003
+CB1003                   0.0237  -2.0487  -0.3811  0.0237  -2.0487  -0.3811
PBAR     1151167075      .190     .433     .004     .0001                  +PB1003
+PB1003  -2.0840           1.8160
CBAR     116117   116117     2516     2517     2619                2       +CB1004
+CB1004                   0.0004  -1.7570  -0.0059  0.0004  -1.7570  -0.0059
PBAR     1161177075      .189     .271     .004     .0001                  +PB1004
+PB1004  -1.7570           1.4930
CBAR     117118   117118     2517     2518     2619                2       +CB1005
+CB1005                  -0.0220  -1.7204  0.3562  -0.0220  -1.7204  0.3562
PBAR     1171187075      .189     .271     .004     .0001                  +PB1005
+PB1005  -1.7570           1.4930
CBAR     118119   118119     2518     2519     2619                2       +CB1006
+CB1006                  -0.0908  -1.1839  1.4627  -0.0908  -1.1839  1.4627
PBAR     1181197075      .177     .327     .004     .0001                  +PB1006
+PB1006  -1.8840           1.6160
CBAR     119120   119120     2519     2520     2619                2       +CB1007
+CB1007                  -0.1082  -0.2022  1.7420  -0.1082  -0.2022  1.7420
PBAR     1191207075      .169     .271     .004     .0001                  +PB1007
+PB1007  -1.7570           1.4930
CBAR     120121   120121     2520     2521     2619                2       +CB1008
+CB1008                  -0.1082  0.2022   1.7420  -0.1082  0.2022   1.7420
PBAR     1201217075      .189     .271     .004     .0001                  +PB1008
+PB1008  -1.7570           1.4930
CBAR     121122   121122     2521     2522     2619                2       +CB1009
+CB1009                  -0.0911  1.1778   1.4676  -0.0911  1.1778   1.4676
PBAR     1211227075      .177     .327     .004     .0001                  +PB1009
+PB1009  -1.8840           1.6160
CBAR     122123   122123     2522     2523     2619                2       +CB1010
+CB1010                  -0.0215  1.7222   0.3472  -0.0215  1.7222   0.3472
PBAR     1221237075      .169     .271     .004     .0001                  +PB1010
+PB1010  -1.7570           1.4930
CBAR     123124   123124     2523     2524     2619                2       +CB1011
+CB1011                   0.0004  1.7570  -0.0059  0.0004  1.7570  -0.0059
PBAR     1231247075      .189     .271     .004     .0001                  +PB1011
+PB1011  -1.7570           1.4930
CBAR     124125   124125     2524     2525     2619                2       +CB1012
+CB1012                   0.0237  2.0487  -0.3811  0.0237  2.0487  -0.3811
PBAR     1241257075      .190     .433     .004     .0001                  +PB1012
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+PB1012  -2.0840           1.8160
CBAR     125126   125126     2525     2526     2619                2       +CB1013
+CB1013                   0.1406  1.3358  -2.2635  0.1406  1.3358  -2.2635
PBAR     1251267075      .225     .824     .004     .0001                  +PB1013
+PB1013  -2.6320           2.3680
CBAR     127128   127128     2527     2528     2620                2       +CB1014
+CB1014                   0.0696  -0.6712  -1.1205  0.0696  -0.6712  -1.1205
PBAR     1271282024      .096     .092     .002     .0001                  +PB1014
+PB1014  -1.3080           1.3920
CBAR     127139   127139     2527     2539     2620                2       +CB1015
+CB1015                   0.0811  0.0      -1.3055  0.0811  0.0      -1.3055
PBAR     1271392024      .096     .092     .002     .0001                  +PB1015
+PB1015  -1.3080           1.3920
CBAR     128129   128129     2528     2529     2620                2       +CB1016
+CB1016                   0.0147  -1.2861  -0.2377  0.0147  -1.2861  -0.2377
PBAR     1281292024      .096     .092     .002     .0001                  +PB1016
+PB1016  -1.3080           1.3920
CBAR     129130   129130     2529     2530     2620                2       +CB1017
+CB1017                   0.0002  -1.3080  -0.0040  0.0002  -1.3080  -0.0040
PBAR     1291302024      .096     .092     .002     .0001                  +PB1017
+PB1017  -1.3080           1.3920
CBAR     130131   130131     2530     2531     2620                2       +CB1018
+CB1018                  -0.0165  -1.2807  0.2651  -0.0165  -1.2807  0.2651
PBAR     1301312024      .096     .092     .002     .0001                  +PB1018
+PB1018  -1.3080           1.3920
CBAR     131132   131132     2531     2532     2620                2       +CB1019
+CB1019                  -0.0629  -0.8249  1.0131  -0.0629  -0.8249  1.0131
PBAR     1311322024      .096     .092     .002     .0001                  +PB1019
+PB1019  -1.3080           1.3920
CBAR     132133   132133     2532     2533     2620                2       +CB1020
+CB1020                  -0.0806  -0.1522  1.2966  -0.0806  -0.1522  1.2966
PBAR     1321332024      .096     .092     .002     .0001                  +PB1020
+PB1020  -1.3080           1.3920
CBAR     133134   133134     2533     2534     2620                2       +CB1021
+CB1021                  -0.0806  0.1522   1.2966  -0.0806  0.1522   1.2966
PBAR     1331342024      .096     .092     .002     .0001                  +PB1021
+PB1021  -1.3080           1.3920
CBAR     134135   134135     2534     2535     2620                2       +CB1022
+CB1022                  -0.0631  0.8211   1.0182  -0.0631  0.8211   1.0182
PBAR     1341352024      .096     .092     .002     .0001                  +PB1022
+PB1022  -1.3080           1.3920
CBAR     135136   135136     2535     2536     2620                2       +CB1023
+CB1023                  -0.0162  1.2820   0.2590  -0.0162  1.2820   0.2590
PBAR     1351362024      .096     .092     .002     .0001                  +PB1023
+PB1023  -1.3080           1.3920
CBAR     136137   136137     2536     2537     2620                2       +CB1024
+CB1024                   0.0002  1.3080  -0.0040  0.0002  1.3080  -0.0040
PBAR     1361372024      .096     .092     .002     .0001                  +PB1024
+PB1024  -1.3080           1.3920
CBAR     137138   137138     2537     2538     2620                2       +CB1025
+CB1025                   0.0147  1.2861  -0.2377  0.0147  1.2861  -0.2377
PBAR     1371382024      .096     .092     .002     .0001                  +PB1025
+PB1025  -1.3080           1.3920
CBAR     138139   138139     2538     2539     2620                2       +CB1026
+CB1026                   0.0896  0.8712  -1.1205  0.0896  0.8712  -1.1205
PBAR     1381392024      .096     .092     .002     .0001                  +PB1026
+PB1026  -1.3080           1.3920
CBAR     140141   140141     2540     2541     2621                2       +CB1027
+CB1027                   0.0893  -0.8806  -1.1148  0.0893  -0.8806  -1.1148
PBAR     1401412024      .123     .118     .003     .0001                  +PB1027
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+PB1027  -1.3080          1.3920
CBAR      140152  140152    2540     2552     2621                 2      +CB1028
+CB1028                   0.0811   0.0     -1.3055   0.0811   0.0     -1.3055
PBAR      1401522024     .123     .118     .003     .0001                 +PB1028
+PB1028  -1.3080          1.3920
CBAR      141142  141142    2541     2542     2621                 2      +CB1029
+CB1029                   0.0146  -1.2864  -0.2362   0.0146  -1.2864  -0.2362
PBAR      1411422024     .123     .118     .003     .0001                 +PB1029
+PB1029  -1.3080          1.3920
CBAR      142143  142143    2542     2543     2621                 2      +CB1030
+CB1030                   0.0002  -1.3080  -0.0034   0.0002  -1.3080  -0.0034
PBAR      1421432024     .123     .118     .003     .0001                 +PB1030
+PB1030  -1.3080          1.3920
CBAR      143144  143144    2543     2544     2621                 2      +CB1031
+CB1031                  -0.0164  -1.2808   0.2649  -0.0164  -1.2808   0.2649
PBAR      1431442024     .123     .118     .003     .0001                 +PB1031
+PB1031  -1.3080          1.3920
CBAR      144145  144145    2544     2545     2621                 2      +CB1032
+CB1032                  -0.0627  -0.8285   1.0102  -0.0627  -0.8285   1.0102
PBAR      1441452024     .123     .118     .003     .0001                 +PB1032
+PB1032  -1.3080          1.3920
CBAR      145146  145146    2545     2546     2621                 2      +CB1033
+CB1033                  -0.0805  -0.1543   1.2964  -0.0805  -0.1543   1.2964
PBAR      1451462024     .123     .118     .003     .0001                 +PB1033
+PB1033  -1.3080          1.3920
CBAR      146147  146147    2546     2547     2621                 2      +CB1034
+CB1034                  -0.0805   0.1543   1.2964  -0.0805   0.1543   1.2964
PBAR      1461472024     .123     .118     .003     .0001                 +PB1034
+PB1034  -1.3080          1.3920
CBAR      147148  147148    2547     2548     2621                 2      +CB1035
+CB1035                  -0.0628   0.8250   1.0130  -0.0628   0.8250   1.0130
PBAR      1471482024     .123     .118     .003     .0001                 +PB1035
+PB1035  -1.3080          1.3920
CBAR      148149  148149    2548     2549     2621                 2      +CB1036
+CB1036                  -0.0161   1.2819   0.2595  -0.0161   1.2819   0.2595
PBAR      1481492024     .123     .118     .003     .0001                 +PB1036
+PB1036  -1.3080          1.3920
CBAR      149150  149150    2549     2550     2621                 2      +CB1037
+CB1037                   0.0002   1.3080  -0.0034   0.0002   1.3080  -0.0034
PBAR      1491502024     .123     .118     .003     .0001                 +PB1037
+PB1037  -1.3080          1.3920
CBAR      150151  150151    2550     2551     2621                 2      +CB1038
+CB1038                   0.0146   1.2864  -0.2362   0.0146   1.2864  -0.2362
PBAR      1501512024     .123     .118     .003     .0001                 +PB1038
+PB1038  -1.3080          1.3920
CBAR      151152  151152    2551     2552     2621                 2      +CB1039
+CB1039                   0.0693   0.6806  -1.1148   0.0693   0.6806  -1.1148
PBAR      1511522024     .123     .118     .003     .0001                 +PB1039
+PB1039  -1.3080          1.3920
CBAR      153154  153154    2553     2554     2622                 2      +CB1040
+CB1040                   0.0688  -0.6925  -1.1075   0.0688  -0.6925  -1.1075
PBAR      1531542024     .096     .092     .002     .0001                 +PB1040
+PB1040  -1.3080          1.3920
CBAR      153165  153165    2553     2565     2622                 2      +CB1041
+CB1041                   0.0811   0.0     -1.3055   0.0811   0.0     -1.3055
PBAR      1531652024     .096     .092     .002     .0001                 +PB1041
+PB1041  -1.3080          1.3920
CBAR      154155  154155    2554     2555     2622                 2      +CB1042
+CB1042                   0.0145  -1.2868  -0.2339   0.0145  -1.2868  -0.2339
PBAR      1541552024     .096     .092     .002     .0001                 +PB1042
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+PB1042  -1.3080          1.3920
CBAR      155156  155156    2555     2556     2622                 2      +CB1043
+CB1043                   0.0002  -1.3080  -0.0029   0.0002  -1.3080  -0.0029
PBAR      1551562024     .096     .092     .002     .0001                 +PB1043
+PB1043  -1.3080          1.3920
CBAR      156157  156157    2556     2557     2622                 2      +CB1044
+CB1044                  -0.0164  -1.2808   0.2648  -0.0164  -1.2808   0.2648
PBAR      1561572024     .096     .092     .002     .0001                 +PB1044
+PB1044  -1.3080          1.3920
CBAR      157158  157158    2557     2558     2622                 2      +CB1045
+CB1045                  -0.0625  -0.8325   1.0066  -0.0625  -0.8325   1.0066
PBAR      1571582024     .096     .092     .002     .0001                 +PB1045
+PB1045  -1.3080          1.3920
CBAR      158159  158159    2558     2559     2622                 2      +CB1046
+CB1046                  -0.0805  -0.1569   1.2961  -0.0805  -0.1569   1.2961
PBAR      1581592024     .096     .092     .002     .0001                 +PB1046
+PB1046  -1.3080          1.3920
CBAR      159160  159160    2559     2560     2622                 2      +CB1047
+CB1047                  -0.0805   0.1569   1.2961  -0.0805   0.1569   1.2961
PBAR      1591602024     .096     .092     .002     .0001                 +PB1047
+PB1047  -1.3080          1.3920
CBAR      160161  160161    2560     2561     2622                 2      +CB1048
+CB1048                  -0.0627   0.8295   1.0094  -0.0627   0.8295   1.0094
PBAR      1601612024     .096     .092     .002     .0001                 +PB1048
+PB1048  -1.3080          1.3920
CBAR      161162  161162    2561     2562     2622                 2      +CB1049
+CB1049                  -0.0162   1.2818   0.2601  -0.0162   1.2818   0.2601
PBAR      1611622024     .096     .092     .002     .0001                 +PB1049
+PB1049  -1.3080          1.3920
CBAR      162163  162163    2562     2563     2622                 2      +CB1050
+CB1050                   0.0002   1.3080  -0.0029   0.0002   1.3080  -0.0029
PBAR      1621632024     .096     .092     .002     .0001                 +PB1050
+PB1050  -1.3080          1.3920
CBAR      163164  163164    2563     2564     2622                 2      +CB1051
+CB1051                   0.0145   1.2868  -0.2339   0.0145   1.2868  -0.2339
PBAR      1631642024     .096     .092     .002     .0001                 +PB1051
+PB1051  -1.3080          1.3920
CBAR      164165  164165    2564     2565     2622                 2      +CB1052
+CB1052                   0.0688   0.6925  -1.1075   0.0688   0.6925  -1.1075
PBAR      1641652024     .096     .092     .002     .0001                 +PB1052
+PB1052  -1.3080          1.3920
CBAR      166167  166167    2566     2567     2623                 2      +CB1053
+CB1053                   0.0681  -0.7089  -1.0971   0.0681  -0.7089  -1.0971
PBAR      1661672024     .154     .147     .003     .0001                 +PB1053
+PB1053  -1.3080          1.3920
CBAR      166178  166178    2566     2578     2623                 2      +CB1054
+CB1054                   0.0810   0.0     -1.3055   0.0810   0.0     -1.3055
PBAR      1661782024     .154     .147     .003     .0001                 +PB1054
+PB1054  -1.3080          1.3920
CBAR      167168  167168    2567     2568     2623                 2      +CB1055
+CB1055                   0.0143  -1.2873  -0.2316   0.0143  -1.2873  -0.2316
PBAR      1671682024     .154     .147     .003     .0001                 +PB1055
+PB1055  -1.3080          1.3920
CBAR      168169  168169    2568     2569     2623                 2      +CB1056
+CB1056                   0.0001  -1.3080  -0.0023   0.0001  -1.3080  -0.0023
PBAR      1681692024     .154     .147     .003     .0001                 +PB1056
+PB1056  -1.3080          1.3920
CBAR      169170  169170    2569     2570     2623                 2      +CB1057
+CB1057                  -0.0164  -1.2808   0.2648  -0.0164  -1.2808   0.2648
PBAR      1691702024     .154     .147     .003     .0001                 +PB1057
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+PB1057  -1.3080            1.3920
CBAR     170171   170171     2570     2571     2623                     2       +CB1058
+CB1058                     -0.0623  -0.8378   1.0025  -0.0623  -0.8378   1.0025
PBAR     1701712024         .154     .147     .003     .0001                    +PB1058
+PB1058  -1.3080            1.3920
CBAR     171172   171172     2571     2572     2623                     2       +CB1059
+CB1059                     -0.1193  -0.2374   1.9197  -0.1193  -0.2374   1.9197
PBAR     1711722024         .204     .384     .004     .0001                    +PB1059
+PB1059  -1.9380            2.0320
CBAR     172173   172173     2572     2573     2623                     2       +CB1060
+CB1060                     -0.1193   0.2374   1.9197  -0.1193   0.2374   1.9197
PBAR     1721732024         .204     .384     .004     .0001                    +PB1060
+PB1060  -1.9380            2.0320
CBAR     173174   173174     2573     2574     2623                     2       +CB1061
+CB1061                     -0.0624   0.8354   1.0045  -0.0624   0.8354   1.0045
PBAR     1731742024         .154     .147     .003     .0001                    +PB1061
+PB1061  -1.3080            1.3920
CBAR     174175   174175     2574     2575     2623                     2       +CB1062
+CB1062                     -0.0162   1.2816   0.2611  -0.0162   1.2816   0.2611
PBAR     1741752024         .154     .147     .003     .0001                    +PB1062
+PB1062  -1.3080            1.3920
CBAR     175176   175176     2575     2576     2623                     2       +CB1063
+CB1063                      0.0001   1.3080  -0.0023   0.0001   1.3080  -0.0023
PBAR     1751762024         .154     .147     .003     .0001                    +PB1063
+PB1063  -1.3080            1.3920
CBAR     176177   176177     2576     2577     2623                     2       +CB1064
+CB1064                      0.0143   1.2873  -0.2316   0.0143   1.2873  -0.2316
PBAR     1761772024         .154     .147     .003     .0001                    +PB1064
+PB1064  -1.3080            1.3920
CBAR     177178   177178     2577     2578     2623                     2       +CB1065
+CB1065                      0.0681   0.7089  -1.0971   0.0681   0.7089  -1.0971
PBAR     1771782024         .154     .147     .003     .0001                    +PB1065
+PB1065  -1.3080            1.3920
CBAR     179180   179180     2579     2580     2624                     2       +CB1066
+CB1066                      0.0671  -0.7326  -1.0815   0.0671  -0.7326  -1.0815
PBAR     1791802024         .096     .092     .002     .0001                    +PB1066
+PB1066  -1.3080            1.3920
CBAR     179191   179191     2579     2591     2624                     2       +CB1067
+CB1067                      0.0809   0.0     -1.3055   0.0809   0.0     -1.3055
PBAR     1791912024         .096     .092     .002     .0001                    +PB1067
+PB1067  -1.3080            1.3920
CBAR     180181   180181     2580     2581     2624                     2       +CB1068
+CB1068                      0.0140  -1.2878  -0.2285   0.0140  -1.2878  -0.2285
PBAR     1801812024         .096     .092     .002     .0001                    +PB1068
+PB1068  -1.3080            1.3920
CBAR     181182   181182     2581     2582     2624                     2       +CB1069
+CB1069                      0.0000  -1.3080  -0.0015   0.0000  -1.3080  -0.0015
PBAR     1811822024         .096     .092     .002     .0001                    +PB1069
+PB1069  -1.3080            1.3920
CBAR     182183   182183     2582     2583     2624                     2       +CB1070
+CB1070                     -0.0164  -1.2809   0.2645  -0.0164  -1.2809   0.2645
PBAR     1821832024         .096     .092     .002     .0001                    +PB1070
+PB1070  -1.3080            1.3920
CBAR     183184   183184     2583     2584     2624                     2       +CB1071
+CB1071                     -0.0621  -0.8436   0.9977  -0.0621  -0.8436   0.9977
PBAR     1831842024         .096     .092     .002     .0001                    +PB1071
+PB1071  -1.3080            1.3920
CBAR     184185   184185     2584     2585     2624                     2       +CB1072
+CB1072                     -0.0805  -0.1641   1.2952  -0.0805  -0.1641   1.2952
PBAR     1841852024         .096     .092     .002     .0001                    +PB1072
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+PB1072  -1.3080            1.3920
CBAR     185186   185186     2585     2586     2624                     2       +CB1073
+CB1073                     -0.0805   0.1641   1.2952  -0.0805   0.1641   1.2952
PBAR     1851862024         .096     .092     .002     .0001                    +PB1073
+PB1073  -1.3080            1.3920
CBAR     186187   186187     2586     2587     2624                     2       +CB1074
+CB1074                     -0.0622   0.8420   0.9990  -0.0622   0.8420   0.9990
PBAR     1861872024         .096     .092     .002     .0001                    +PB1074
+PB1074  -1.3080            1.3920
CBAR     187188   187188     2587     2588     2624                     2       +CB1075
+CB1075                     -0.0163   1.2814   0.2621  -0.0163   1.2814   0.2621
PBAR     1871882024         .096     .092     .002     .0001                    +PB1075
+PB1075  -1.3080            1.3920
CBAR     188189   188189     2588     2589     2624                     2       +CB1076
+CB1076                      0.0000   1.3080  -0.0015   0.0000   1.3080  -0.0015
PBAR     1881892024         .096     .092     .002     .0001                    +PB1076
+PB1076  -1.3080            1.3920
CBAR     189190   189190     2589     2590     2624                     2       +CB1077
+CB1077                      0.0140   1.2878  -0.2285   0.0140   1.2878  -0.2285
PBAR     1891902024         .096     .092     .002     .0001                    +PB1077
+PB1077  -1.3080            1.3920
CBAR     190191   190191     2590     2591     2624                     2       +CB1078
+CB1078                      0.0671   0.7326  -1.0815   0.0671   0.7326  -1.0815
PBAR     1901912024         .096     .092     .002     .0001                    +PB1078
+PB1078  -1.3080            1.3920
CBAR     192193   192193     2592     2593     2625                     2       +CB1079
+CB1079                      0.0656  -0.7891  -1.0559   0.0656  -0.7691  -1.0559
PBAR     1921932024         .096     .092     .002     .0001                    +PB1079
+PB1079  -1.3080            1.3920
CBAR     192204   192204     2592     2604     2625                     2       +CB1080
+CB1080                      0.0811   0.0     -1.3055   0.0811   0.0     -1.3055
PBAR     1922042024         .096     .092     .002     .0001                    +PB1080
+PB1080  -1.3080            1.3920
CBAR     193194   193194     2593     2594     2625                     2       +CB1081
+CB1081                      0.0140  -1.2885  -0.2244   0.0140  -1.2885  -0.2244
PBAR     1931942024         .096     .092     .002     .0001                    +PB1081
+PB1081  -1.3080            1.3920
CBAR     194195   194195     2594     2595     2625                     2       +CB1082
+CB1082                      0.0000  -1.3080  -0.0006   0.0000  -1.3080  -0.0006
PBAR     1941952024         .096     .092     .002     .0001                    +PB1082
+PB1082  -1.3080            1.3920
CBAR     195196   195196     2595     2596     2625                     2       +CB1083
+CB1083                     -0.0165  -1.2809   0.2642  -0.0165  -1.2809   0.2642
PBAR     1951962024         .096     .092     .002     .0001                    +PB1083
+PB1083  -1.3080            1.3920
CBAR     196197   196197     2596     2597     2625                     2       +CB1084
+CB1084                     -0.0616  -0.8516   0.9909  -0.0616  -0.8516   0.9909
PBAR     1961972024         .096     .092     .002     .0001                    +PB1084
+PB1084  -1.3080            1.3920
CBAR     197198   197198     2597     2598     2625                     2       +CB1085
+CB1085                     -0.0804  -0.1689   1.2946  -0.0804  -0.1689   1.2946
PBAR     1971982024         .096     .092     .002     .0001                    +PB1085
+PB1085  -1.3080            1.3920
CBAR     198199   198199     2598     2599     2625                     2       +CB1086
+CB1086                     -0.0804   0.1689   1.2946  -0.0804   0.1689   1.2946
PBAR     1981992024         .096     .092     .002     .0001                    +PB1086
+PB1086  -1.3080            1.3920
CBAR     199200   199200     2599     2600     2625                     2       +CB1087
+CB1087                     -0.0616   0.8511   0.9913  -0.0616   0.8511   0.9913
PBAR     1992002024         .096     .092     .002     .0001                    +PB1087
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+PB1087  -1.3080          1.3920
CBAR     200201  200201   2800     2601     2625                       2       +CB1088
+CB1088                  -0.0164   1.2811   0.2634  -0.0164   1.2811   0.2634
PBAR     2002012024       .096     .092     .002     .0001                     +PB1088
+PB1088  -1.3080          1.3920
CBAR     201202  201202   2601     2602     2625                       2       +CB1089
+CB1089                   0.0000   1.3080  -0.0006   0.0000   1.3080  -0.0006
PBAR     2012022024       .096     .092     .002     .0001                     +PB1089
+PB1089  -1.3080          1.3920
CBAR     202203  202203   2602     2603     2625                       2       +CB1090
+CB1090                   0.0140   1.2885  -0.2244   0.0140   1.2885  -0.2244
PBAR     2022032024       096      .092     .002     .0001                     +PB1090
+PB1090  -1.3080          1.3920
CBAR     203204  203204   2603     2604     2625                       2       +CB1091
+CB1091                   0.0656   0.7691  -1.0559   0.0656   0.7691  -1.0559
PBAR     2032042024       .096     .092     .002     .0001                     +PB1091
+PB1091  -1.3080          1.3920
CBAR     205206  205206   2605     2606     2626                       2       +CB1092
+CB1092                   0.1070  -1.3137  -1.7226   0.1070  -1.3137  -1.7226
PBAR     2052062024       .139     .371     .004     .0001                     +PB1092
+PB1092  -2 1690          1.7310
CBAR     205217  205217   2605     2617     2626                       2       +CB1093
+CB1093                   0.0947   0.0     -1.5241   0.0947   0.0     -1.5241
PBAR     2052172024       .150     .151     003      .0001                     +PB1093
+PB1093  -1.5270          1.1730
CBAR     206207  206207   2606     2607     2626                       2       +CB1094
+CB1094                   0.0173  -1.6121  -0.2781   0.0173  -1.6121  -0.2781
PBAR     2062072024       .157     .179     .003     .0001                     +PB1094
+PB1094  -1.6360          1.2640
CBAR     207208  207208   2607     2608     2626                       2       +CB1095
+CB1095                   0.0001  -1.4460   0.0000   0.0001  -1.4460   0.0000
PBAR     2072082024       .146     .130     003      .0001                     +PB1095
+PB1095  -1.4460          1.1040
CBAR     208209  208209   2608     2609     2626                       2       +CB1096
+CB1096                  -0.0204  -1.6021   0.3304  -0.0204  -1.6021   0.3304
PBAR     2082092024       .157     .179     .003     .0001                     +PB1096
+PB1096  -1.6360          1.2640
CBAR     209210  209210   2609     2610     2626                       2       +CB1097
+CB1097                  -0.0966  -1.3503   1.5567  -0.0966  -1.3503   1.5567
PBAR     2092102024       .182     .327     .004     .0001                     +PB1097
+PB1097  -2.0630          1 6370
CBAR     210211  210211   2610     2611     2626                       2       +CB1098
+CB1098                  -0.1202  -0.2567   1.9364  -0.1202  -0.2567   1.9364
PBAR     2102112024       .176     .284     .003     .0001                     +PB1098
+PB1098  -1.9570          1.5430
CBAR     211212  211212   2611     2612     2626                       2       +CB1099
+CB1099                  -0.1202   0.2567   1.9364  -0.1202   0.2567   1.9364
PBAR     2112122024       .176     .284     .003     .0001                     +PB1099
+PB1099  -1.9570          1.5430
CBAR     212213  212213   2612     2613     2626                       2       +CB1100
+CB1100                  -0.0966   1.3503   1.5567  -0.0966   1.3503   1.5567
PBAR     2122132024       .182     .327     .004     .0001                     +PB1100
+PB1100  -2.0630          1.6370
CBAR     213214  213214   2613     2614     2626                       2       +CB1101
+CB1101                  -0.0204   1.6021   0.3304  -0.0204   1.6021   0.3304
PBAR     2132142024       .157     .179     .003     .0001                     +PB1101
+PB1101  -1.6360          1.2640
CBAR     214215  214215   2614     2615     2626                       2       +CB1102
+CB1102                   0.0001   1.4460   0.0000   0.0001   1.4460   0.0000
PBAR     2142152024       .146     .130     .003     .0001                     +PB1102
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+PB1102  -1.4460          1.1040
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+CB1103                   0.0173   1.6121  -0.2781   0.0173   1.6121  -0.2781
PBAR     2152162024       .157     .179     .003     .0001                     +PB1103
+PB1103  -1.6360          1.2640
CBAR     216217  216217   2616     2617     2626                       2       +CB1104
+CB1104                   0.1070   1.3137  -1.7226   0.1070   1.3137  -1.7226
PBAR     2162172024       .189     .371     .004     .0001                     +PB1104
+PB1104  -2.1690          1.7310
CBAR     101102  101102   2501     2502     2618                       2       +CB1105
+CB1105                   0.1847  -1.7374  -2.9749   0.1847  -1.7374  -2.9749
PBAR     1011022024       .363     2.384    .012     .0001                     +PB1105
+PB1105  -3.4500          3.4500
CBAR     101113  101113   2501     2513     2618                       2       +CB1106
+CB1106                   0.2046   0.0     -3.2937   0.2046   0.0     -3.2937
PBAR     1011132024       .354     2.320    .011     .0001                     +PB1106
+PB1106  -3.3000          3.3000
CBAR     102103  102103   2502     2503     2618                       2       +CB1107
+CB1107                   0.0308  -2.6539  -0.4960   0.0308  -2.6539  -0.4960
PBAR     1021032024       .315     1.313    .012     .0001                     +PB1107
+PB1107  -2.7000          2.7000
CBAR     103104  103104   2503     2504     2618                       2       +CB1108
+CB1108                   0.0006  -2.8000  -0.0098   0.0006  -2.8000  -0.0098
PBAR     1031042024       .322     1.434    .012     .0001                     +PB1108
+PB1108  -2.8000          2.8000
CBAR     104105  104105   2504     2505     2618                       2       +CB1109
+CB1109                  -0.0460  -3.5739   0.7400  -0.0460  -3.5739   0.7400
PBAR     1041052024       .376     2.737    .013     .0001                     +PB1109
+PB1109  -3.6500          3.6500
CBAR     105106  105106   2505     2506     2618                       2       +CB1110
+CB1110                  -0.1933  -2.5069   3.1109  -0.1933  -2.5069   3.1109
PBAR     1051062024       .398     3.426    .013     .0001                     +PB1110
+PB1110  -4.0000          4.0000
CBAR     106107  106107   2506     2507     2618                       2       +CB1111
+CB1111                  -0.1909  -0.3534   3.0739  -0.1909  -0.3534   3.0739
PBAR     1061072024       .341     1.837    .012     .0001                     +PB1111
+PB1111  -3.1000          3.1000
CBAR     107108  107108   2507     2508     2618                       2       +CB1112
+CB1112                  -0.1909   0.3534   3.0739  -0.1909   0.3534   3.0739
PBAR     1071082024       .341     1.837    .012     .0001                     +PB1112
+PB1112  -3.1000          3.1000
CBAR     108109  108109   2508     2509     2618                       2       +CB1113
+CB1113                  -0.1940   2.4931   3.1220  -0.1940   2.4931   3.1220
PBAR     1081092024       .398     3.426    013      .0001                     +PB1113
+PB1113  -4.0000          4.0000
CBAR     109110  109110   2509     2510     2618                       2       +CB1114
+CB1114                  -0.0448   3.5780   0.7200  -0.0448   3.5780   0.7200
PBAR     1091102024       .376     2.737    .013     .0001                     +PB1114
+PB1114  -3.6500          3.6500
CBAR     110111  110111   2510     2511     2618                       2       +CB1115
+CB1115                   0.0006   2.8000  -0.0098   0.0006   2.8000  -0.0098
PBAR     1101112024       .322     1.434    .012     .0001                     +PB1115
+PB1115  -2.8000          2.8000
CBAR     111112  111112   2511     2512     2618                       2       +CB1116
+CB1116                   0.0308   2.6539  -0.4960   0.0308   2.6539  -0.4960
PBAR     1111122024       .315     1.313    .012     .0001                     +PB1116
+PB1116  -2.7000          2.7000
CBAR     112113  112113   2512     2513     2618                       2       +CB1117
+CB1117                   0.1847   1.7374  -2.9749   0.1847   1.7374  -2.9749
PBAR     1121132024       .383     2.384    .012     .0001                     +PB1117
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CBAR       244245    8201    2644    2645    2628              2
CBAR       245246    8201    2645    2646    2628              2
CBAR       246247    8201    2646    2647    2628              2
CBAR       247248    8201    2647    2648    2628              2
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CONM2      135208      2608              0.786
CONM2      135209      2609              0.786
CONM2      135210      2610              0.786
CONM2      135211      2611              0.786
CONM2      135212      2612              0.786
CONM2      135213      2613              0.786
CONM2      135214      2614              0.786
CONM2      135215      2615              0.786
CONM2      135216      2616              0.786
CONM2      135217      2617              0.786
$
$$***     STINGER FAIRING , SHAKE TEST CONFIG  # 1   ***************
$ A  TOTAL OF 1.7 LBS REMOVED FOR  STINGER   FAIRING
CONM2     8136229      2629             -.11538
CONM2     8136230      2630             -.11538
CONM2     8136231      2631             -.11538
CONM2     8136232      2632             -.11538
CONM2     8136233      2633             -.11538
CONM2     8136234      2634             -.11538
CONM2     8136235      2635             -.11538
CONM2     8136236      2636             -.11538
CONM2     8136237      2637             -.11538
CONM2     8136238      2638             -.11538
CONM2     8136239      2639             -.11538
CONM2     8136240      2640             -.11538
CONM2     8136241      2641             -.11538
$ ******************************************************************
$$***   STINGER FAIRING    , SHAKE TEST CONFIG  # 1   ***************
$ A  TOTAL OF 1.5 LBS REMOVED FOR   STINGER  FAIRING
CONM2      136229      2629              1.501
CONM2      136230      2630              1.501
CONM2      136231      2631              1.501
CONM2      136232      2632              1.501
$$***   LOCAL MODE FIX REDISTRIBUTE MASS FROM GRID 262 TO 233,237 EVENLY
$ONM2      136233       233              1.501
CONM2      136233      2633              2.251
CONM2      136234      2634              1.501
CONM2      136235      2635              1.501
CONM2      136236      2636              1.501
CONM2      136237      2637              2.251
$ONM2      136237       237              1.501
$$***   LOCAL MODE FIX REDISTRIBUTE MASS FROM GRID 262 TO 233,237 EVENLY
CONM2      136238      2638              1.501
CONM2      136239      2639              1.501
CONM2      136240      2640              1.501
CONM2      136241      2641              1.501
CONM2      136242      2642              1.501
CONM2      136258      2658              1.501
CONM2      136259      2659              1.501
CONM2      136260      2660              1.501
CONM2      136261      2661              1.501
$$***   LOCAL MODE FIX REDISTRIBUTE MASS FROM GRID 262 TO 233,237 EVENLY
$ONM2      136262       262              1.501
CONM2      136263      2663              1.501
CONM2      136264      2664              1.501
CONM2      136265      2665              1.501
```

```
CONM2   136266  2666            1.501
CONM2   136229  2629            4.721
CONM2   136242  2642            4.721
CONM2   136256  2656            4.721
CONM2   136257  2657            4.721
CONM2   136300  2700            4.721
CONM2   136276  2676            1.305
CONM2   136277  2677            1.305
CONM2   136278  2678            1.305
CONM2   136279  2679            1.305
CONM2   136301  2700            1.305
CONM2   139280  2680            2.423
CONM2   139281  2681            2.423
CONM2   139282  2682            2.423
CONM2   139283  2683            2.423
CONM2   139302  2702            2.423
CONM2   140284  2684            1.695
CONM2   140285  2685            1.695
CONM2   140286  2686            1.695
CONM2   140287  2687            1.695
CONM2   140304  2704            1.695
CONM2   141288  2688            1.189
CONM2   141289  2689            1.189
CONM2   141290  2690            1.189
CONM2   141291  2691            1.189
CONM2   141306  2706            1.189
CONM2   142292  2692            2.513
CONM2   142293  2693            2.513
CONM2   142294  2694            2.513
CONM2   142295  2695            2.513
CONM2   142296  2696            2.513
CONM2   142297  2697            2.513
CONM2   142308  2708            2.513
$$
GRID      2501      0 298.400    3.670   67.607   0   0   0
GRID      2502      0 298.700   12.290   62.800   0   0   0
GRID      2503      0 299.258   14.370   53.833   0   0   0
GRID      2504      0 299.789   14.400   45.300   0   0   0
GRID      2505      0 300.370   11.920   35.970   0   0   0
GRID      2506      0 300.586    7.150   32.345   0   0   0
GRID      2507      0 300.847    0.000   31.526   0   0   0
GRID      2508      0 300.586   -7.150   32.345   0   0   0
GRID      2509      0 300.370  -11.920   35.970   0   0   0
GRID      2510      0 299.789  -14.400   45.300   0   0   0
GRID      2511      0 299.258  -14.370   53.833   0   0   0
GRID      2512      0 298.700  -12.290   62.800   0   0   0
GRID      2513      0 298.400   -3.670   67.607   0   0   0
GRID      2514      0 316.667    3.670   67.601   0   0   0
GRID      2515      0 316.970   11.986   62.712   0   0   0
GRID      2516      0 317.464   13.470   54.765   0   0   0
GRID      2517      0 317.962   13.497   46.741   0   0   0
GRID      2518      0 318.462   11.825   38.696   0   0   0
GRID      2519      0 318.719    6.704   34.567   0   0   0
GRID      2520      0 318.767    0.000   33.792   0   0   0
GRID      2521      0 318.719   -6.704   34.567   0   0   0
GRID      2522      0 318.462  -11.869   38.696   0   0   0
GRID      2523      0 317.962  -13.497   46.741   0   0   0
GRID      2524      0 317.464  -13.470   54.765   0   0   0
GRID      2525      0 316.970  -11.986   62.712   0   0   0
GRID      2526      0 316.667   -3.670   67.601   0   0   0

GRID      2527      0 337.647    3.670   67.595   0   0   0
GRID      2528      0 337.922   11.072   63.178   0   0   0
GRID      2529      0 338.378   12.434   55.838   0   0   0
GRID      2530      0 338.840   12.457   48.402   0   0   0
GRID      2531      0 339.302   10.909   40.953   0   0   0
GRID      2532      0 339.540    6.191   37.126   0   0   0
GRID      2533      0 339.585    0.000   36.402   0   0   0
GRID      2534      0 339.540   -6.191   37.126   0   0   0
GRID      2535      0 339.302  -10.946   40.853   0   0   0
GRID      2536      0 338.840  -12.457   48.402   0   0   0
GRID      2537      0 338.378  -12.434   55.838   0   0   0
GRID      2538      0 337.922  -11.072   63.178   0   0   0
GRID      2539      0 337.647   -3.670   67.595   0   0   0
GRID      2540      0 358.628    3.670   67.589   0   0   0
GRID      2541      0 358.873   10.157   63.644   0   0   0
GRID      2542      0 359.292   11.398   56.910   0   0   0
GRID      2543      0 359.717   11.416   50.061   0   0   0
GRID      2544      0 360.142    9.994   43.211   0   0   0
GRID      2545      0 360.361    5.678   39.685   0   0   0
GRID      2546      0 360.403    0.000   39.012   0   0   0
GRID      2547      0 360.361   -5.678   39.685   0   0   0
GRID      2548      0 360.142  -10.024   43.211   0   0   0
GRID      2549      0 359.717  -11.416   50.061   0   0   0
GRID      2550      0 359.292  -11.398   56.910   0   0   0
GRID      2551      0 358.873  -10.157   63.644   0   0   0
GRID      2552      0 358.628   -3.670   67.589   0   0   0
GRID      2553      0 379.619    3.670   67.582   0   0   0
GRID      2554      0 379.834    9.243   64.111   0   0   0
GRID      2555      0 380.215   10.361   57.983   0   0   0
GRID      2556      0 380.604   10.375   51.723   0   0   0
GRID      2557      0 380.992    9.077   45.469   0   0   0
GRID      2558      0 381.193    5.164   42.246   0   0   0
GRID      2559      0 381.231    0.000   41.823   0   0   0
GRID      2560      0 381.193   -5.184   42.246   0   0   0
GRID      2561      0 380.992   -9.101   45.469   0   0   0
GRID      2562      0 380.604  -10.375   51.723   0   0   0
GRID      2563      0 380.215  -10.361   57.983   0   0   0
GRID      2564      0 379.834   -9.243   64.111   0   0   0
GRID      2565      0 379.619   -3.670   67.582   0   0   0
GRID      2566      0 400.610    3.670   67.575   0   0   0
GRID      2567      0 400.796    8.328   64.577   0   0   0
GRID      2568      0 401.139    9.325   58.057   0   0   0
GRID      2569      0 401.491    9.335   53.384   0   0   0
GRID      2570      0 401.843    8.181   47.728   0   0   0
GRID      2571      0 402.024    4.651   44.806   0   0   0
GRID      2572      0 402.060    0.000   44.233   0   0   0
GRID      2573      0 402.024   -4.651   44.806   0   0   0
GRID      2574      0 401.843   -8.178   47.728   0   0   0
GRID      2575      0 401.491   -9.335   53.384   0   0   0
GRID      2576      0 401.139   -9.325   58.057   0   0   0
GRID      2577      0 400.796   -8.328   64.577   0   0   0
GRID      2578      0 400.610   -3.670   67.575   0   0   0
GRID      2579      0 421.601    3.670   67.569   0   0   0
GRID      2580      0 421.757    7.413   65.043   0   0   0
GRID      2581      0 422.063    8.288   60.130   0   0   0
GRID      2582      0 422.378    8.294   55.045   0   0   0
GRID      2583      0 422.693    7.245   49.985   0   0   0
GRID      2584      0 422.855    4.137   47.367   0   0   0
GRID      2585      0 422.888    0.000   46.845   0   0   0
GRID      2586      0 422.855   -4.137   47.367   0   0   0
```

GRID	2587	0	422.693	-7.255	49.985	0	0	0
GRID	2588	0	422.378	-8.294	55.045	0	0	0
GRID	2589	0	422.063	-8.288	60.130	0	0	0
GRID	2590	0	421.757	-7.413	65.043	0	0	0
GRID	2591	0	421.801	-3.670	67.569	0	0	0
GRID	2592	0	442.591	3.670	67.562	0	0	0
GRID	2593	0	442.719	6.498	65.510	0	0	0
GRID	2594	0	442.986	7.251	61.203	0	0	0
GRID	2595	0	443.266	7.253	56.706	0	0	0
GRID	2596	0	443.543	6.329	52.243	0	0	0
GRID	2597	0	443.687	3.624	49.927	0	0	0
GRID	2598	0	443.716	0.000	48.456	0	0	0
GRID	2599	0	443.687	-3.624	48.927	0	0	0
GRID	2600	0	443.543	-6.332	52.243	0	0	0
GRID	2601	0	443.266	-7.253	56.706	0	0	0
GRID	2602	0	442.986	-7.251	61.203	0	0	0
GRID	2603	0	442.719	-6.498	65.510	0	0	0
GRID	2604	0	442.591	-3.670	67.562	0	0	0
GRID	2605	0	451.728	3.670	67.559	0	0	0
GRID	2606	0	451.843	6.100	65.713	0	0	0
GRID	2607	0	452.094	6.800	61.671	0	0	0
GRID	2608	0	452.357	6.800	57.429	0	0	0
GRID	2609	0	452.618	5.930	53.227	0	0	0
GRID	2610	0	452.754	3.400	51.041	0	0	0
GRID	2611	0	452.782	0.000	50.592	0	0	0
GRID	2612	0	452.754	-3.400	51.041	0	0	0
GRID	2613	0	452.618	-5.930	53.227	0	0	0
GRID	2614	0	452.357	-6.800	57.429	0	0	0
GRID	2615	0	452.094	-6.800	61.671	0	0	0
GRID	2616	0	451.843	-6.100	65.713	0	0	0
GRID	2617	0	451.728	-3.670	67.559	0	0	0
GRID	2618	0	299.551	-0.004	48.291	0	123456	0
GRID	2619	0	317.789	-0.003	49.535	0	123456	0
GRID	2620	0	338.580	-0.003	50.968	0	123456	0
GRID	2621	0	359.572	-0.002	52.401	0	123456	0
GRID	2622	0	380.473	-0.002	53.834	0	123456	0
GRID	2623	0	401.374	-0.001	55.268	0	123456	0
GRID	2624	0	422.275	-0.001	56.702	0	123456	0
GRID	2625	0	443.177	0.000	58.135	0	123456	0
GRID	2626	0	452.275	0.000	58.759	0	123456	0
GRID	2627	0	464.103	0.000	59.812	0	123456	0
GRID	2628	0	484.893	0.000	61.103	0	123456	0
GRID	2629	0	472.104	3.670	67.554	0	0	0
GRID	2630	0	470.635	5.280	66.132	0	0	0
GRID	2631	0	466.804	6.071	62.425	0	0	0
GRID	2632	0	462.472	6.296	58.233	0	0	0
GRID	2633	0	457.887	5.698	53.798	0	0	0
GRID	2634	0	455.371	3.335	51.363	0	0	0
GRID	2635	0	454.841	0.000	50.850	0	0	0
GRID	2636	0	455.371	-3.335	51.363	0	0	0
GRID	2637	0	457.887	-5.698	53.798	0	0	0
GRID	2638	0	462.472	-6.296	58.233	0	0	0
GRID	2639	0	466.804	-6.071	62.425	0	0	0
GRID	2640	0	470.635	-5.280	66.132	0	0	0
GRID	2641	0	472.104	-3.670	67.554	0	0	0
GRID	2642	0	472.104	-2.880	67.554	0	0	0
GRID	2643	0	484.493	3.670	67.550	0	0	0
GRID	2644	0	484.562	4.672	66.441	0	0	0
GRID	2645	0	484.754	5.182	63.346	0	0	0
GRID	2646	0	484.960	5.175	60.022	0	0	0

GRID	2647	0	485.163	4.500	56.752	0	0	0
GRID	2648	0	485.270	2.598	55.038	0	0	0
GRID	2649	0	485.293	0.000	54.667	0	0	0
GRID	2650	0	485.270	-2.598	55.038	0	0	0
GRID	2651	0	485.163	-4.500	56.752	0	0	0
GRID	2652	0	484.960	-5.175	60.022	0	0	0
GRID	2653	0	484.754	-5.182	63.346	0	0	0
GRID	2654	0	484.562	-4.672	66.441	0	0	0
GRID	2655	0	484.493	-3.670	67.550	0	0	0
GRID	2656	0	484.493	-2.280	67.550	0	0	0
GRID	2657	0	484.493	3.080	67.550	0	0	0
GRID	2658	0	470.635	3.670	66.132	0	0	0
GRID	2659	0	466.804	3.670	62.425	0	0	0
GRID	2660	0	462.472	3.670	58.233	0	0	0
GRID	2661	0	456.830	3.670	52.775	0	0	0
GRID	2662	0	456.830	0.000	52.775	0	0	0
GRID	2663	0	456.830	-2.880	52.775	0	0	0
GRID	2664	0	462.472	-2.880	58.233	0	0	0
GRID	2665	0	466.804	-2.880	62.425	0	0	0
GRID	2666	0	470.635	-2.880	66.132	0	0	0
GRID	2667	0	484.562	3.037	66.441	0	0	0
GRID	2668	0	484.754	2.918	63.346	0	0	0
GRID	2669	0	484.960	2.780	60.022	0	0	0
GRID	2670	0	485.163	2.664	56.752	0	0	0
GRID	2671	0	485.163	0.000	56.752	0	0	0
GRID	2672	0	485.163	-2.554	56.752	0	0	0
GRID	2673	0	484.960	-2.471	60.022	0	0	0
GRID	2674	0	484.754	-2.387	63.346	0	0	0
GRID	2675	0	484.562	-2.308	66.441	0	0	0
GRID	2676	0	488.718	-2.880	83.627	0	456	0
GRID	2677	0	488.718	3.670	83.627	0	456	0
GRID	2678	0	494.430	3.080	78.288	0	456	0
GRID	2679	0	494.430	-2.280	78.288	0	456	0
GRID	2680	0	498.780	-2.880	93.362	0	456	0
GRID	2681	0	498.780	3.670	93.362	0	456	0
GRID	2682	0	503.420	3.080	88.272	0	456	0
GRID	2683	0	503.420	-2.280	88.272	0	456	0
GRID	2684	0	508.805	-2.880	103.062	0	456	0
GRID	2685	0	508.805	3.670	103.062	0	456	0
GRID	2686	0	512.778	3.080	98.686	0	456	0
GRID	2687	0	512.778	-2.280	98.686	0	456	0
GRID	2688	0	518.723	-2.880	112.858	0	0	0
GRID	2689	0	518.723	3.670	112.858	0	0	0
GRID	2690	0	522.055	3.080	109.009	0	456	0
GRID	2691	0	522.055	-2.280	109.009	0	456	0
GRID	2692	0	522.819	-2.880	116.621	0	0	0
GRID	2693	0	522.819	3.670	116.621	0	0	0
GRID	2694	0	525.867	2.895	113.251	0	0	0
GRID	2695	0	525.867	-2.105	113.251	0	0	0
GRID	2696	0	520.841	-2.880	118.774	0	0	0
GRID	2697	0	520.841	3.670	118.774	0	0	0
GRID	2698	0	522.819	0.000	116.621	0	123456	0
GRID	2699	0	520.841	0.000	118.774	0	123456	0
GRID	2700	0	508.432	-2.845	68.113	0	456	0
GRID	2701	0	508.432	10.000	68.113	0	123456	0
GRID	2702	0	515.021	-2.845	75.546	0	456	0
GRID	2703	0	515.021	10.000	75.546	0	123456	0
GRID	2704	0	523.527	-2.845	86.854	0	456	0
GRID	2705	0	523.527	10.000	86.854	0	123456	0
GRID	2706	0	532.002	-2.845	98.123	0	456	0

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GRID    2707       0 532.002   10.000   98.123        0  123456      0
GRID    2708       0 535.427   -2,.845 102.678        0     456      0
GRID    2709       0 535.427   10.000  102.678        0  123456      0
GRID    2710       0 534.668    2.595  123.044        0     456      0
GRID    2711       0 534.668   -1.805  123.044        0     456      0
GRID    2712       0 543.301   -2.845  113.148        0     456      0
GRID    2713       0 543.301   10.000  113.148        0  123456      0
GRID    2714       0 543.225    2.345  132.565        0     456      0
GRID    2715       0 543.225   -1.555  132 565        0     456      0
GRID    2716       0 557.786   -2.845  132.409        0     456      0
GRID    2717       0 557.786   10.000  132.409        0  123456      0
GRID    2718       0 515 489   -2.880  109.529        0     456      0
GRID    2719       0 515.489    3.670  109.529        0     456      0
GRID    2720       0 519.296    3.080  105.937        0     456      0
GRID    2721       0 519.296   -2.280  105.937        0     456      0
PBAR    80002024   .0010     .00001   .00001   .00001
PBAR    80112024   .354      2.320    .011     .0001
PBAR    80122024   .363      2.384    .012     .0001
PBAR    80132024   .315      1.313    .012     .0001
PBAR    80142024   .322      1.434    .012     .0001
PBAR    80152024   .376      2.737    .013     .0001
PBAR    80162024   .398      3.426    .013     .0001
PBAR    80172024   .341      1.837    .012     .0001
PBAR    80217075   .196      .481     .004     .0001
PBAR    80227075   .225      .824     .004     .0001
PBAR    80237075   .190      .433     .004     .0001
PBAR    80247075   .169      .271     .004     .0001
PBAR    80257075   .177      .327     .004     .0001
PBAR    80312024   .096      .092     .002     .0001
PBAR    80412024   .123      .118     .003     .0001
PBAR    80512024   .154      .147     .003     .0001
PBAR    80522024   .204      .384     .004     .0001
PBAR    80612024   .150      .151     .003     .0001
PBAR    80622024   .189      .371     .004     .0001
PBAR    80632024   .157      .179     .003     .0001
PBAR    80642024   .146      .130     .003     .0001
PBAR    80652024   .182      .327     .004     .0001
PBAR    80662024   .176      .284     .003     .0001
PBAR    81017075   .112      .0122    .0090    .0001
PBAR    81027075   .088      .0097    .0036    .0001
PBAR    81037075   .483      .0417    .0430    .0001
PBAR    81047075   .362      .0329    .0343    .0001
PBAR    81057075   .223      .0210    .0120    .0001
PBAR    81067075   .178      .0184    .0037    .0001
PBAR    82012024   .080      .0053    .0053    .0001
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PBAR    82032024   .095      .0052    .0094    .0001
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PSHEAR  34017075   .020
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PSHEAR  34032024   .050
PSHEAR  35012024   .032
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CONROD         5     2631     2632     7075 0.08043
CONROD         6     2632     2660     7075 0.19297
CONROD         7     2660     2659     7075 0.08043
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ORIGINAL PAGE IS
OF POOR QUALITY

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CONROD	349	2565	2563	7075	0.33586
CONROD	350	2553	2566	7075	0.11744
CONROD	351	2565	2578	7075	0.33586
CONROD	352	2578	2565	7075	0.11744
CONROD	353	2565	2567	7075	0.33582
CONROD	354	2567	2580	7075	0.08049
CONROD	355	2580	2579	7075	0.33582
CONROD	356	2579	2566	7075	0.08049
CONROD	357	2567	2568	7075	0.33571
CONROD	358	2568	2581	7075	0.08486
CONROD	359	2581	2580	7075	0.33571
CONROD	360	2580	2567	7075	0.08486
CONROD	361	2568	2569	7075	0.33585
CONROD	362	2569	2582	7075	0.08623
CONROD	363	2582	2581	7075	0.33585
CONROD	364	2581	2568	7075	0.08623
CONROD	365	2569	2570	7075	0.33576
CONROD	366	2570	2583	7075	0.08772
CONROD	367	2583	2582	7075	0.33576

CONROD	368	2582	2589	7075	0.08772
CONROD	369	2570	2571	7075	0.33589
CONROD	370	2571	2584	7075	0.08910
CONROD	371	2584	2583	7075	0.33589
CONROD	372	2583	2570	7075	0.06910
CONROD	373	2571	2572	7075	0.33588
CONROD	374	2572	2585	7075	0.07085
CONROD	375	2585	2584	7075	0.33588
CONROD	376	2584	2571	7075	0.07085
CONROD	377	2572	2573	7075	0.33588
CONROD	378	2573	2586	7075	0.07085
CONROD	379	2586	2585	7075	0.33588
CONROD	380	2585	2572	7075	0.07085
CONROD	381	2573	2574	7075	0.33589
CONROD	382	2574	2587	7075	0.06927
CONROD	383	2587	2586	7075	0.33589
CONROD	384	2586	2573	7075	0.08827
CONROD	385	2574	2575	7075	0.33577
CONROD	386	2575	2588	7075	0.08767
CONROD	387	2588	2587	7075	0.33577
CONROD	388	2587	2574	7075	0.08767
CONROD	389	2575	2576	7075	0.33565
CONROD	390	2576	2589	7075	0.08623
CONROD	391	2589	2588	7075	0.33565
CONROD	392	2588	2575	7075	0.08623
CONROD	393	2576	2577	7075	0.33571
CONROD	394	2577	2590	7075	0.08496
CONROD	395	2590	2589	7075	0.33571
CONROD	396	2589	2576	7075	0.08496
CONROD	397	2577	2578	7075	0.33582
CONROD	398	2578	2591	7075	0.08049
CONROD	399	2591	2590	7075	0.33582
CONROD	400	2590	2577	7075	0.08049
CONROD	401	2578	2566	7075	0.33586
CONROD	402	2566	2579	7075	0.11744
CONROD	403	2579	2591	7075	0.33586
CONROD	404	2591	2578	7075	0.11744
CONROD	405	2578	2580	7075	0.33582
CONROD	406	2580	2593	7075	0.06412
CONROD	407	2593	2592	7075	0.33582
CONROD	408	2592	2579	7075	0.06412
CONROD	409	2580	2581	7075	0.33571
CONROD	410	2581	2594	7075	0.07504
CONROD	411	2594	2593	7075	0.33571
CONROD	412	2593	2580	7075	0.07504
CONROD	413	2581	2582	7075	0.33565
CONROD	414	2582	2595	7075	0.07680
CONROD	415	2595	2594	7075	0.33565
CONROD	416	2594	2581	7075	0.07680
CONROD	417	2582	2583	7075	0.33577
CONROD	418	2583	2596	7075	0.07795
CONROD	419	2596	2595	7075	0.33577
CONROD	420	2595	2582	7075	0.07795
CONROD	421	2583	2584	7075	0.33590
CONROD	422	2584	2597	7075	0.06105
CONROD	423	2597	2596	7075	0.33590
CONROD	424	2596	2583	7075	0.06105
CONROD	425	2584	2585	7075	0.33589
CONROD	426	2585	2598	7075	0.06260
CONROD	427	2598	2597	7075	0.33589

CONROD	428	2597	2584	7075	0.06260
CONROD	429	2585	2586	7075	0.33589
CONROD	430	2586	2599	7075	0.06260
CONROD	431	2599	2598	7075	0.33589
CONROD	432	2598	2585	7075	0.06260
CONROD	433	2586	2587	7075	0.33590
CONROD	434	2587	2600	7075	0.06113
CONROD	435	2600	2599	7075	0.33590
CONROD	436	2599	2586	7075	0.06113
CONROD	437	2587	2588	7075	0.33578
CONROD	438	2588	2601	7075	0.07792
CONROD	439	2601	2600	7075	0.33578
CONROD	440	2600	2587	7075	0.07792
CONROD	441	2588	2589	7075	0.33565
CONROD	442	2589	2602	7075	0.07680
CONROD	443	2602	2601	7075	0.33565
CONROD	444	2601	2588	7075	0.07680
CONROD	445	2589	2590	7075	0.33571
CONROD	446	2590	2603	7075	0.07504
CONROD	447	2603	2602	7075	0.33571
CONROD	448	2602	2589	7075	0.07504
CONROD	449	2590	2591	7075	0.33582
CONROD	450	2591	2604	7075	0.06412
CONROD	451	2604	2603	7075	0.33582
CONROD	452	2603	2590	7075	0.06412
CONROD	453	2591	2579	7075	0.33584
CONROD	454	2579	2592	7075	0.11744
CONROD	455	2592	2604	7075	0.33584
CONROD	456	2604	2591	7075	0.11744
CONROD	457	2592	2593	7075	0.14618
CONROD	458	2593	2606	7075	0.05240
CONROD	459	2606	2605	7075	0.14618
CONROD	460	2605	2592	7075	0.05240
CONROD	461	2593	2594	7075	0.14613
CONROD	462	2594	2607	7075	0.06792
CONROD	463	2607	2606	7075	0.14613
CONROD	464	2606	2593	7075	0.06792
CONROD	465	2594	2595	7075	0.14610
CONROD	466	2595	2608	7075	0.07005
CONROD	467	2608	2607	7075	0.14610
CONROD	468	2607	2594	7075	0.07005
CONROD	469	2595	2596	7075	0.14614
CONROD	470	2596	2609	7075	0.07092
CONROD	471	2609	2608	7075	0.14614
CONROD	472	2608	2595	7075	0.07092
CONROD	473	2596	2597	7075	0.14620
CONROD	474	2597	2610	7075	0.05528
CONROD	475	2610	2609	7075	0.14620
CONROD	476	2609	2596	7075	0.05528
CONROD	477	2597	2598	7075	0.14620
CONROD	478	2598	2611	7075	0.05667
CONROD	479	2611	2610	7075	0.14620
CONROD	480	2610	2597	7075	0.05667
CONROD	481	2598	2599	7075	0.14620
CONROD	482	2599	2612	7075	0.05667
CONROD	483	2612	2611	7075	0.14620
CONROD	484	2611	2598	7075	0.05667
CONROD	485	2599	2600	7075	0.14620
CONROD	486	2600	2613	7075	0.05530
CONROD	487	2613	2612	7075	0.14620

CONROD	488	2612	2599	7075	0.05530
CONROD	489	2600	2601	7075	0.14814
CONROD	490	2601	2614	7075	0.07092
CONROD	491	2614	2613	7075	0.14814
CONROD	492	2613	2600	7075	0.07092
CONROD	493	2601	2602	7075	0.14510
CONROD	494	2602	2615	7075	0.07005
CONROD	495	2615	2614	7075	0.14610
CONROD	496	2614	2601	7075	0.07005
CONROD	497	2602	2603	7075	0.14613
CONROD	498	2603	2616	7075	0.06792
CONROD	499	2616	2615	7075	0.14613
CONROD	500	2615	2602	7075	0.06792
CONROD	501	2603	2604	7075	0.14618
CONROD	502	2604	2617	7075	0.05240
CONROD	503	2617	2616	7075	0.14618
CONROD	504	2616	2603	7075	0.05240
CONROD	505	2604	2592	7075	0.14619
CONROD	506	2592	2605	7075	0.11744
CONROD	507	2605	2617	7075	0.14619
CONROD	508	2617	2604	7075	0.11744
CONROD	509	2605	2606	7075	0.48988
CONROD	510	2606	2630	7075	0.07070
CONROD	511	2630	2629	7075	0.48988
CONROD	512	2629	2605	7075	0.07070
CONROD	513	2606	2607	7075	0.41952
CONROD	514	2607	2631	7075	0.11874
CONROD	515	2631	2630	7075	0.41952
CONROD	516	2630	2606	7075	0.11874
CONROD	517	2607	2608	7075	0.31133
CONROD	518	2608	2632	7075	0.12853
CONROD	519	2632	2631	7075	0.31133
CONROD	520	2631	2607	7075	0.12853
CONROD	521	2608	2609	7075	0.19330
CONROD	522	2609	2633	7075	0.13383
CONROD	523	2633	2632	7075	0.19330
CONROD	524	2632	2608	7075	0.13383
CONROD	525	2609	2610	7075	0.08928
CONROD	526	2610	2634	7075	0.09463
CONROD	527	2634	2633	7075	0.08928
CONROD	528	2633	2609	7075	0.09463
CONROD	529	2610	2611	7075	0.05891
CONROD	530	2611	2635	7075	0.08557
CONROD	531	2635	2634	7075	0.05891
CONROD	532	2634	2610	7075	0.08557
CONROD	533	2611	2612	7075	0.05891
CONROD	534	2612	2636	7075	0.08557
CONROD	535	2636	2635	7075	0.05891
CONROD	536	2635	2611	7075	0.08557
CONROD	537	2612	2613	7075	0.09928
CONROD	538	2613	2637	7075	0.09463
CONROD	539	2637	2636	7075	0.09928
CONROD	540	2636	2612	7075	0.09463
CONROD	541	2613	2614	7075	0.19330
CONROD	542	2614	2638	7075	0.13383
CONROD	543	2638	2637	7075	0.19330
CONROD	544	2637	2613	7075	0.13383
CONROD	545	2614	2615	7075	0.31133
CONROD	546	2615	2639	7075	0.12853
CONROD	547	2639	2638	7075	0.31133

CONROD	548	2638	2614	7075	0.12853
CONROD	549	2615	2616	7075	0.41952
CONROD	550	2616	2640	7075	0.11874
CONROD	551	2640	2639	7075	0.41952
CONROD	552	2639	2615	7075	0.11874
CONROD	553	2616	2617	7075	0.48988
CONROD	554	2617	2641	7075	0.07070
CONROD	555	2641	2640	7075	0.48988
CONROD	556	2640	2616	7075	0.07070
CONROD	557	2617	2605	7075	0.50940
CONROD	558	2605	2629	7075	0.18350
CONROD	559	2629	2641	7075	0.50940
CONROD	560	2641	2617	7075	0.18350
CONROD	561	2629	2630	7075	0.32916
CONROD	562	2630	2644	7075	0.05123
CONROD	563	2644	2643	7075	0.32916
CONROD	564	2643	2629	7075	0.05123
CONROD	565	2629	2657	7075	0.18866
CONROD	566	2657	2678	7075	0.10129
CONROD	567	2678	2677	7075	0.18866
CONROD	568	2677	2628	7075	0.10129
CONROD	569	2630	2631	7075	0.39924
CONROD	570	2631	2645	7075	0.10665
CONROD	571	2645	2644	7075	0.39924
CONROD	572	2644	2630	7075	0.10665
CONROD	573	2631	2632	7075	0.50728
CONROD	574	2632	2646	7075	0.11703
CONROD	575	2646	2645	7075	0.50728
CONROD	576	2645	2631	7075	0.11703
CONROD	577	2632	2633	7075	0.62561
CONROD	578	2633	2647	7075	0.12190
CONROD	579	2647	2646	7075	0.62561
CONROD	580	2646	2632	7075	0.12190
CONROD	581	2633	2634	7075	0.71993
CONROD	582	2634	2648	7075	0.08483
CONROD	583	2648	2647	7075	0.71993
CONROD	584	2647	2633	7075	0.08483
CONROD	585	2634	2635	7075	0.76029
CONROD	586	2635	2649	7075	0.07550
CONROD	587	2649	2648	7075	0.76029
CONROD	588	2648	2634	7075	0.07550
CONROD	589	2635	2636	7075	0.76029
CONROD	590	2636	2650	7075	0.07550
CONROD	591	2650	2649	7075	0.76029
CONROD	592	2649	2635	7075	0.07550
CONROD	593	2636	2637	7075	0.71993
CONROD	594	2637	2651	7075	0.08483
CONROD	595	2651	2650	7075	0.71993
CONROD	596	2650	2636	7075	0.08483
CONROD	597	2637	2638	7075	0.62561
CONROD	598	2638	2652	7075	0.12190
CONROD	599	2652	2651	7075	0.62561
CONROD	600	2651	2637	7075	0.12190
CONROD	601	2638	2639	7075	0.50728
CONROD	602	2639	2653	7075	0.11703
CONROD	603	2653	2652	7075	0.50728
CONROD	604	2652	2638	7075	0.11703
CONROD	605	2639	2640	7075	0.39924
CONROD	606	2640	2654	7075	0.10665
CONROD	607	2654	2653	7075	0.39924

CONROD	608	2653	2639	7075	0	.10665
CONROD	609	2640	2641	7075	0	.32916
CONROD	610	2641	2655	7075	0	.05123
CONROD	611	2655	2654	7075	0	.32916
CONROD	612	2654	2640	7075	0	.05123
CONROD	613	2641	2642	7075	0	.30991
CONROD	614	2642	2656	7075	0	.02725
CONROD	615	2656	2655	7075	0	.30991
CONROD	616	2655	2641	7075	0	.02725
CONROD	617	2642	2629	7075	0	.31008
CONROD	618	2629	2657	7075	0	.14887
CONROD	619	2657	2656	7075	0	.31008
CONROD	620	2656	2642	7075	0	.14887
CONROD	621	2642	2629	7075	0	.57791
CONROD	622	2629	2677	7075	0	.16375
CONROD	623	2677	2676	7075	0	.57791
CONROD	624	2676	2642	7075	0	.16375
CONROD	625	2656	2642	7075	0	.18866
CONROD	626	2642	2676	7075	0	.10128
CONROD	627	2676	2679	7075	0	.18866
CONROD	628	2679	2656	7075	0	.10129
CONROD	629	2657	2656	7075	0	.21924
CONROD	630	2656	2679	7075	0	.08040
CONROD	631	2679	2678	7075	0	.21924
CONROD	632	2678	2657	7075	0	.08040
CONROD	633	2676	2677	2024	0	.12568
CONROD	634	2677	2678	2024	0	.09528
CONROD	635	2678	2679	2024	0	.12568
CONROD	636	2679	2676	2024	0	.09528
CONROD	637	2676	2677	7075	0	.35001
CONROD	638	2677	2681	7075	0	.16375
CONROD	639	2681	2680	7075	0	.35001
CONROD	640	2680	2676	7075	0	.16375
CONROD	641	2677	2678	7075	0	.13725
CONROD	642	2678	2682	7075	0	.07384
CONROD	643	2682	2681	7075	0	.13725
CONROD	644	2681	2677	7075	0	.07384
CONROD	645	2678	2679	7075	0	.20175
CONROD	646	2679	2683	7075	0	.08040
CONROD	647	2683	2682	7075	0	.20175
CONROD	648	2682	2678	7075	0	.08040
CONROD	649	2678	2700	7075	0	.11375
CONROD	650	2700	2702	7075	0	.18636
CONROD	651	2702	2682	7075	0	.11375
CONROD	652	2682	2678	7075	0	.18636
CONROD	653	2679	2676	2024	0	.43234
CONROD	654	2676	2680	2024	0	.23261
CONROD	655	2680	2683	2024	0	.43234
CONROD	656	2683	2679	2024	0	.23261
CONROD	657	2680	2681	7075	0	.00035
CONROD	658	2681	2682	7075	0	.00030
CONROD	659	2682	2683	7075	0	.00035
CONROD	660	2683	2680	7075	0	.00030
CONROD	661	2680	2681	7075	0	.34874
CONROD	662	2681	2685	7075	0	.16375
CONROD	663	2685	2684	7075	0	.34874
CONROD	664	2684	2680	7075	0	.16375
CONROD	665	2681	2682	7075	0	.13975
CONROD	666	2682	2686	7075	0	.08426
CONROD	667	2686	2685	7075	0	.13975

CONROD	668	2685	2681	7075	0	.06426
CONROD	669	2682	2683	7075	0	.21001
CONROD	670	2683	2687	7075	0	.08040
CONROD	671	2687	2686	7075	0	.21001
CONROD	672	2686	2682	7075	0	.08040
CONROD	673	2682	2702	7075	0	.14075
CONROD	674	2702	2704	7075	0	.17630
CONROD	675	2704	2686	7075	0	.14075
CONROD	676	2686	2682	7075	0	.17830
CONROD	677	2683	2680	7075	0	.13975
CONROD	678	2680	2684	7075	0	.08427
CONROD	679	2684	2687	7075	0	.13975
CONROD	680	2687	2683	7075	0	.08427
CONROD	681	2684	2685	7075	0	.00030
CONROD	682	2685	2686	7075	0	.00030
CONROD	683	2686	2687	7075	0	.00030
CONROD	684	2687	2684	7075	0	.00030
CONROD	685	2684	2685	7075	0	.23251
CONROD	686	2685	2719	7075	0	.16375
CONROD	687	2719	2718	7075	0	.23251
CONROD	688	2718	2684	7075	0	.16375
CONROD	689	2685	2686	7075	0	.09525
CONROD	690	2686	2720	7075	0	.05604
CONROD	691	2720	2719	7075	0	.09525
CONROD	692	2719	2685	7075	0	.05604
CONROD	693	2686	2704	7075	0	.13990
CONROD	694	2704	2706	7075	0	.16470
CONROD	695	2706	2690	7075	0	.13990
CONROD	696	2690	2686	7075	0	.16470
CONROD	697	2686	2687	7075	0	.14625
CONROD	698	2687	2721	7075	0	.08040
CONROD	699	2721	2720	7075	0	.14625
CONROD	700	2720	2686	7075	0	.08040
CONROD	701	2687	2684	2024	0	.23813
CONROD	702	2684	2718	2024	0	.14012
CONROD	703	2718	2721	2024	0	.23813
CONROD	704	2721	2687	2024	0	.14012
CONROD	705	2688	2689	7075	0	.09954
CONROD	706	2689	2690	7075	0	.11810
CONROD	707	2690	2691	7075	0	.09954
CONROD	708	2691	2688	7075	0	.11910
CONROD	709	2688	2689	7075	0	.00028
CONROD	710	2688	2693	7075	0	.00033
CONROD	711	2693	2692	7075	0	.00028
CONROD	712	2692	2688	7075	0	.00033
CONROD	713	2688	2689	7075	0	.32362
CONROD	714	2689	2697	7075	0	.32750
CONROD	715	2697	2696	7075	0	.32362
CONROD	716	2696	2688	7075	0	.32750
CONROD	717	2689	2690	7075	0	.00029
CONROD	718	2690	2694	7075	0	.00024
CONROD	719	2694	2693	7075	0	.00029
CONROD	720	2693	2689	7075	0	.00024
CONROD	721	2690	2691	7075	0	.07132
CONROD	722	2691	2695	7075	0	.06475
CONROD	723	2695	2694	7075	0	.07132
CONROD	724	2694	2690	7075	0	.06475
CONROD	725	2690	2706	7075	0	.05703
CONROD	726	2706	2708	7075	0	.15629
CONROD	727	2708	2694	7075	0	.05703

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CONROD       728     2694     2690     7075 0.15629
CONROD       729     2691     2688     7075 0.00029
CONROD       730     2688     2692     7075 0.00024
CONROD       731     2692     2695     7075 0.00029
CONROD       732     2695     2691     7075 0.00024
CONROD       733     2692     2693     7075 0.00023
CONROD       734     2693     2694     7075 0.00029
CONROD       735     2694     2695     7075 0.00023
CONROD       736     2695     2692     7075 0.00029
CONROD       737     2694     2708     7075 0.13135
CONROD       738     2708     2712     7075 0.14791
CONROD       739     2712     2710     7075 0.13135
CONROD       740     2710     2694     7075 0.14791
CONROD       741     2695     2694     7075 0.16463
CONROD       742     2694     2710     7075 0.05875
CONROD       743     2710     2711     7075 0.16463
CONROD       744     2711     2695     7075 0.05875
CONROD       745     2696     2697     7075 0.00015
CONROD       746     2697     2693     7075 0.00033
CONROD       747     2693     2692     7075 0.00015
CONROD       748     2692     2696     7075 0.00033
CONROD       749     2700     2679     7075 0.11375
CONROD       750     2679     2683     7075 0.17677
CONROD       751     2683     2702     7075 0.11375
CONROD       752     2702     2700     7075 0.17677
CONROD       753     2702     2683     7075 0.14075
CONROD       754     2683     2687     7075 0.16612
CONROD       755     2687     2704     7075 0.14075
CONROD       756     2704     2702     7075 0.16612
CONROD       757     2704     2687     7075 0.13990
CONROD       758     2687     2691     7075 0.15376
CONROD       759     2691     2706     7075 0.13990
CONROD       760     2706     2704     7075 0.15376
CONROD       761     2706     2691     7075 0.05702
CONROD       762     2691     2695     7075 0.14515
CONROD       763     2695     2708     7075 0.05702
CONROD       764     2708     2706     7075 0.14515
CONROD       765     2708     2695     7075 0.13135
CONROD       766     2695     2711     7075 0.13723
CONROD       767     2711     2712     7075 0.13135
CONROD       768     2712     2708     7075 0.13723
CONROD       769     2710     2712     7075 0.18452
CONROD       770     2712     2716     7075 0.14837
CONROD       771     2716     2714     7075 0.18452
CONROD       772     2714     2710     7075 0.14837
CONROD       773     2712     2711     7075 0.18452
CONROD       774     2711     2715     7075 0.13896
CONROD       775     2715     2716     7075 0.18452
CONROD       776     2716     2712     7075 0.13896
CONROD       777     2718     2719     7075 0.11250
CONROD       778     2719     2689     7075 0.16375
CONROD       779     2689     2688     7075 0.11250
CONROD       780     2688     2718     7075 0.16375
CONROD       781     2718     2719     2024 0.13170
CONROD       782     2719     2720     2024 0.14887
CONROD       783     2720     2721     2024 0.13170
CONROD       784     2721     2718     2024 0.14887
CONROD       785     2719     2720     7075 0.04315
CONROD       786     2720     2690     7075 0.05122
CONROD       787     2690     2689     7075 0.04315
```

```
CONROD       788     2689     2719     7075 0.05122
CONROD       789     2721     2718     7075 0.04315
CONROD       790     2718     2688     7075 0.05123
CONROD       791     2688     2691     7075 0.04315
CONROD       792     2691     2721     7075 0.05123
CONROD       793     2720     2721     7075 0.06194
CONROD       794     2721     2691     7075 0.08040
CONROD       795     2691     2690     7075 0.06194
CONROD       796     2690     2720     7075 0.08040
CONROD       797     2711     2710     7075 0.16005-
CONROD       798     2710     2714     7075 0.05187
CONROD       799     2714     2715     7075 0.16005
CONROD       800     2715     2711     7075 0.05187
$
$
$
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                              MISCELLANEOUS CARDS
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$SUPORT  15625   1
$SUPORT  18625   2
$SUPORT  18641   3
$SUPORT  21325   2
$SUPORT  21341   3
$SUPORT  21349   3
CORD2R  406     0       200.00  0.0     105.70  200.00  0.0     200.00  C   406
+C   406208.988 -4.384  105.70
$ORD1R   9373    9333    9373    11563
$ORD1R   9377    1003    9377    11567
CORD2R   9373   0       0.0     0.0     0.0     .25882  0.0     .96593  C 9373
+C 9373  .96593 0.0     -.25882
$ORD2R   7071   0       70.79   15.72   61.84   68.86   15.72   71.84   C 7071
$C 7071  98.89   18.03  67.23
CORD2R   7071   0       0.0     0.0     0.0     0.0     0.0     1.0     C 7071
+C 7071  .997    .077   1.00
$ORD2R   7079   0       70.79   -15.72  61.84   68.86   -15.72  71.84   C 7079
$C 7079  98.89   -18.03 67.23
CORD2R   7079   0       0.0     0.0     0.0     0.0     0.0     1.0     C 7079
+C 7079  .997    -.077  1.00
$ORD2R   8571   0       85.26   16.72   64.64   83.33   16.72   74.64   C 8571
$C 8571  98.69   17.91  67.23
$ORD2R   8579   0       85.26   -16.72  64.64   83.33   -16.72  74.64   C 8579
$C 8579  98.69   -17.91 67.23
CORD2R  11571   0       0.0     0.0     0.0     0.0     0.0     1.0     C11571
+C11571 .999993  .00384 1.00
$ORD2R  11571   0       114.04  17.65   70.19   112.11  17.65   80.19   C11571
$C11571 152.27   17.65  77.57
CORD2R  11579   0       0.0     0.0     0.0     0.0     0.0     1.0     C11579
+C11579 .999993 -.00384 1.00
$ORD2R  11579   0       114.04  -17.65  70.19   112.11  -17.65  80.19   C11579
$C11579 152.27  -17.65  77.57
CORD2R  13849   0       0.0     0.0     0.0     -.357678 0.0    .933845 C13849
+C13849 -.933845 0.0    -.357678
$ORD1R  13849   1004    13867   14867
$ORD1R  13871   13861   13871   14881
$ORD1R  13879   13869   13879   14889
CORD1R  15633   15623   15633   18621
CORD1R  15637   15627   15637   18629
```

ORIGINAL PAGE IS
OF POOR QUALITY

```
CORDIR  29945    29925    29965    2588
$----------------
$  The following EIGC cards are added by Weiyu Zhou for the complex
$  eigenvalue analysis.
$----------------
EIGC     999      INV      PDINT    1001     1        1 -5                    ABC
+BC      -5       0.0      -5.      -1.0     60       12       12             DEF
+EF      -5       -1.0     -5.      -50.0    60       12       12             GHI
+HI      -5       -50.0    -5.      -100.0   60       12       12             JKL
+KL      -5.      -100.0   -5.      -135.0   60       12       12             MNO
+NO      -5.      -135.0   -5.      -160.0   60       12       12             PQR
+QR      -5.      -160.0   -5.      -190.0   60       12       12             STU
+TU      -5.      -190.0   -5.      -220.0   60       12       12
$EIGR    999      HOU      0.0      50.0                                       EIGR
$+EIGR   MAX
PARAM    WTMASS   .00259
PARAM    LMODES   35
PARAM    GRDPNT   0
PARAM    NEWSEQ   3
$PARAM    USETPRT 2
$PARAM    USETSEL 0
$
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                          RBE3   REPRESENTATION OF FUEL
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
RBE3     333              17100    123456   1.0      123    14823    14827 $FWDFUEL
+FWDFUEL   18621    18629
$
RBE3     334              23100    123456   1.0      123    21321    21329 $AFTFUEL
+AFTFUEL   25021    25029
$
$
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$                          STATIC / DYNAMIC LOAD CARDS
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$
$DYNRED  998      50.0     12
$SPOINT  2000     THRU     2059
$
$QSET1   0        2000     THRU     2059
$ASET1   0        2000     THRU     2059
$----------------
$  The following ASET cards are added by Weiyu Zhou for selecting the
$  coordinates corresponding to the physical location of the data
$  measurements
$----------------
ASET1    123      1001     1003     1023     1024     1004     1022     1017     +C1
+C1      1018     1029     1007     2511     2572     2649     2697     1028     +C2
+C2      1021     1012     1013     1026     1025
ASET     19777    13       1006     2
$
$
$
$ * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$ * * * * *              SPECIAL FREQUENCY RESPONSE DATA        * * * * * * *
```

```
$  * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
$
$DLOAD   110          1.    1.       111
$DLOAD   120          1.    1        121
$DLOAD   130          1.    1        131
$DLOAD   140          1     1.       141
DLOAD    150          1     1.       151
$
$RLOAD2  111      2501531 0        0        90
$RLOAD2  121      2501532 0        0        90
$RLOAD2  131      2501533 0        0        90
$RLOAD2  141      2501534 0        0        90
RLOAD2   151      2501535 0        0        90
$
$DAREA   2501531 200153  1        1.0
$DAREA   2501532 200153  2        1.0
$DAREA   2501533 200153  3        1.0
$DAREA   2501534 2649    3        .00259
$AREA    2501535 1028    2        .00259
DAREA    2501535 200162  1        .00259
$
$
$
$FREQ       96        10.8     21.6     32.4
FREQ1    96       2.16110  .1964600  170                                    DF=0.1HZ
$FREQ     51       0.01     4.8      19.2
$
$ DEFINE EXCITATION FORCE WHICH IS INDEPENDENT OF FREQUENCY.
TABLED1  90                                                                  B(F)
+B(F)    0.0      1.00     100.0    1.00   ENDT
$
$ DEFINE 4% STRUCTURAL DAMPING WHICH IS EQUIVALENT TO 2%
$ CRITICAL VISCOUS DAMPING
$
TABDMP1  98       G                                                          $DAMP
+DAMP    0.0      0.04     100.     0.04     ENDT
$
$      VERTICAL SHAKE RUNS
$ABDMP1  98       G                                                          $DAMP
$DAMP    0.0      0.025    10.      0.025    10.      .056     16.5     .056 $DAMP1
$DAMP1   16.5     0.034    20.      0.034    20.      .032     25.      .032 $DAMP2
$DAMP2   25.      .12      28.      .12      28.      .04      35.      .04  $DAMP3
$DAMP3   ENDT
$
$ LATERAL SHAKE RUNS
$ABDMP1  88       G                                                          $DAMP
$DAMP    0.0      0.04     10.      0.04     10.      .06      16.5     .08  $DAMP1
$DAMP1   16.5     0.07     20.      0.07     20.      .06      24.      .06  $DAMP2
$DAMP2   24.      .12      28.      .12      28.      .04      35.      .04  $DAMP3
$DAMP3   ENDT
$
$
$
$ DEFINE ACCELEROMETER LOCATIONS CORRESPONDING TO DAMVIBS TESTS
$ D.O.F. RETAINED FOR TEST #1-VERTICAL INCLUDE:
$   99X,99Y,99Z,17X,17Z,18Y,16Z,15Z,14Z,13Z,
$   12Z,11Z,10Z,9Z,8Z,7X,7Y,7Z,6Z,5Z,4Z,3Z,2Z,1Z
$
$
$    ACCELEROMETER LOCATIONS FOR CONFIGURATION 1 VERTICAL TESTS
```

```
$
$    ACCELEROMETER LOCATIONS WITH ZERO APPENDED ARE FOR LATERAL ONLY
$    ACCELEROMETER LOCATIONS W/DOUBLE ZERO ARE FOR LONGITUDINAL ONLY
$
GRID,1,,48.00,-9.07,46.00,0,456
GRID,2,,95.00,-10.0,46.00,0,456
GRID,3,,110.20,-40.0,11.00,0,456
GRID,4,,110.20,40.00,11.00,0,456
GRID,5,,136.70,-10.0,46.00,0,456
GRID,6,,196.90,-9.00,84.60,0,456
GRID,7,,200.00,3.00,154.97,0,456
GRID,8,,204.00,59.00,63.95,0,456
GRID,9,,204.00,-59.00,63.95,0,456
GRID,80,,232.00,42.00,7.35,0,456
GRID,90,,232.00,-38.00,7.35,0,456
$
$
GRID,800,,398.00,33.30,57.0,0,456
GRID,900,,398.00,-32.80,57.0,0,456
GRID,10,,232.30,0.00,95.60,0,456
GRID,11,,252.80,0.00,97.50,0,456
GRID,12,,250.00,-2.30,84.50,0,456
GRID,13,,296.34,-14.3,83.50,0,456
GRID,14,,402.40,-1.00,42.00,0,456
GRID,15,,485.30,0.00,54.70,0,456
GRID,16,,521.50,7.60,120.7,0,456
GRID,17,,520.67,19.60,119.7,0,456
GRID,180,,200.00,-8.00,86.30,0,456
GRID,190,,204.00,59.00,63.95,0,456
GRID,200,,204.00,-59.00,63.95,0,456
$RID,99,,200.00,0.00,100.0,0,456
$
$
RBE2,301,1001,123,1
RBE2,302,1003,123,2
RBE2,303,1004,123,5
RBE2,304,19777,13,6
RBE2,305,1006,2,6
RBE2,306,1007,123,12
RBE2,307,2511,123,13
RBE2,308,2572,123,14
RBE2,309,2649,123,15
RBE2,310,1017,123,8,190
RBE2,311,1018,123,9,200
RBE2,312,1019,123,10
RBE2,313,1020,123,11
RBE2,314,1022,123,7
RBE2,315,1023,123,3
RBE2,316,1024,123,4
RBE2,317,2697,123,16
RBE2,318,1026,123,17
$BE2,319,200015,123,99
RBE2,320,1026,123,80
RBE2,321,1025,123,90
RBE2,322,1012,123,800
RBE2,323,1013,123,900
RBE2,324,1021,123,180
$BE2,325,1017,123,190
$BE2,326,1018,123,200
$
```

```
$
$
$
ENDDATA
$
$
$          ****************************************
$          *                                      *
$          *     CASE CONTROL DECK FOR STATIC     *
$          *     ANALYSIS (SOL 24)                *
$          *                                      *
$          *     DEFINED BY ROB DOMPKA            *
$          ****************************************
$
$GPFORCE=ALL
$ELFORCES(PRINT,PUNCH)=ALL
DLOAD=ALL
SPCFORCES(PRINT,PUNCH)=ALL
DISP(PRINT,PUNCH)=ALL
SPC=500
LOAD=600
$
$
$       ************************************
$       *                                  *
$       *  CASE CONTROL DECK FOR STATIC    *
$       *  ANALYSIS, SOL 24                *
$       *                                  *
$       ************************************
$
$
SPC=200
OUTPUT
   DISPLACEMENT=ALL
   DLOAD=ALL
   SPCFORCE=ALL
   ESE=ALL
$
SUBCASE 1
    LABEL=ROLL MOMENT AND LATERAL SHEAR FORCE
    LOAD=110
SUBCASE 2
    LABEL=PITCH MOMENT AND F/A SHEAR FORCE
    LOAD=120
SUBCASE 3
    LABEL=100% M/R TORQUE
    LOAD=130
$
$
$       ************************************
$       *                                  *
$       *  CASE CONTROL DECK FOR NORMAL    *
$       *  MODE ANALYSIS, SOL 3            *
$       *                                  *
$       ************************************
$
$
OUTPUT
   DISPLACEMENT(SORT1,PHASE)=ALL
$ SPCFORCE=ALL
```

```
$ ESE=ALL
$
OUTPUT(PLOT)
 PLOTTER NAST
 AXES MX MY Z
 SET 1 INCLUDE ALL
 MAXIMUM DEFORMATION 30.0
$
$ *** 3-D VIEW
PTITLE=ISOMETRIC VIEW
FIND SCALE,ORIGIN 1,SET 1
PLOT MODAL DEFORMATION 0,RANGE 0.1,35.0,SET 1,PEN 3,ORIGIN 1,SHAPE
$
$ *** FRONT VIEW
PTITLE=FRONT VIEW
VIEW 0.0,0.0,0.0
FIND SCALE, ORIGIN 2, SET 1
PLOT MODAL DEFORMATION 0, RANGE 0.1,35.0,SET 1,PEN 3,ORIGIN 2,SHAPE
$
$ *** SIDE VIEW
PTITLE=SIDE VIEW
VIEW -90.0,0.0,0.0
FIND SCALE, ORIGIN 3, SET 1
PLOT MODAL DEFORMATION 0, RANGE 0.1,35.0,SET 1,PEN 3,ORIGIN 3,SHAPE
$
$ *** TOP VIEW
PTITLE=TOP VIEW
VIEW 0.0,90.0,0.0
FIND SCALE, ORIGIN 4, SET 1
PLOT MODAL DEFORMATION 0, RANGE 0.1,35.0,SET 1,PEN 3,ORIGIN 4,SHAPE
$
$
$
$       ************************************
$       *                                  *
$       *  CASE CONTROL DECK FOR MODAL     *
$       *  FREQUENCY RESPONSE, SOL 30      *
$       *                                  *
$       ************************************
$
FREQ=96
SDAMP=98
$ SPCFORCE=ALL
$ ESE=ALL
$
$      FOLLOWING SETS CORRESPOND TO THE ACCELEROMETER LOCATIONS
$        USED IN GVT FOR LONGITUDINAL (SET 1), LATERAL (SET 2)
$        AND VERTICAL (SET 3) LOAD CONDITIONS/RESPONSE MEASUREMENT
$
$
SET 1=1,2,3,4,5,6,7,8,80,800,9,90,900,10,11,
      12,13,14,15,16,17,18,19,180,190,200
$
SET 1=1052,1054,1057,6701,6703,6711,6713,170014,183014,287001,
$      256013,256018,92912,92962,340020,97004,132010,171008,
$      256027,256028,4364,4456,92800,8050,8006
SET 2=1052,1054,1057,6701,6703,6711,6713,97004,132010,143002,92962,
$      170014,171009,183014,256023,256026,256035,256036,191,188,814,
$      340020,340016,92800,8050,4364,4456,287008,256013,92912
SET 3=1052,6701,6703,6711,6713,97004,132010,132017,143002,92900,8050,
```

```
$      171009,171016,183014,256013,256018,256035,256036,191,188,814,8006,
$      256027,256028,287001,287008,340001,340006,340020,92962,92912,1057
SET 6=1052,92903,92953,8050
$
OUTPUT
$ DLOAD(SORT1,PRINT,PHASE)=6
$  DISPLACEMENT(SORT1,PHASE)=1
$  ELFORCE(SORT1,PHASE)=2
$
$
$     NOTE:  SUBCASES SHOULD BE RUN INDIVIDUALLY FOR PUNCH FILE
$              GENERATION BECAUSE OF THE SIZE OF OUTPUT REQUESTS
$
SUBCASE 1
$ LABEL=200 LB F/A M/R HUB SHEAR FORCE
$ DLOAD=110
$ ACCELERATION(SORT1,PRINT,PHASE)=1
SUBCASE 2
$ LABEL=200 LB LATERAL M/R HUB SHEAR FORCE
$ DLOAD=120
$ ACCELERATION(SORT1,PRINT,PUNCH,PHASE)=2
SUBCASE 3
$ LABEL=200 LB VERTICAL M/R HUB SHEAR FORCE
$ DLOAD=130
$ ACCELERATION(SORT1,PRINT,PUNCH,PHASE)=3
SUBCASE 4
  LABEL=1 LB VERTICAL LOAD AT TAIL SKID
  DLOAD=140
  ACCELERATION(SORT1,PRINT,PUNCH,PHASE)=1
SUBCASE 5
  LABEL=1 LB LATERAL LOAD AT TAIL ROTOR
  DLOAD=150
  ACCELERATION(SORT1,PRINT,PUNCH,PHASE)=1
$
$
$ NOTE:    PLOTTING INFORMATION MUST BE REMOVED IF
$            SORT 1 OUTPUT FORMAT FOR ACCELERATIONS IS REQURIED
$          (I.E. FOR AUTOMATED NASTRAN GVT DATA OVERPLOTTING PROGRAM)
$
OUTPUT(XYPLOT)
      PLOTTER NASTRAN MODEL
      XAXIS=YES
      XMIN=0.0
      XMAX=50.0
      XDIVISION=50
      XINTERCEPT=19.2
      LOWER TICS=1
      UPPER TICS=-1
      XVALUE PRINT SKIP=4
   XTITLE=                              FORCING FREQUENCY (HZ)
      YLOG=YES
      YAXIS=YES
      LEFT TICS=1
      RIGHT TICS=-1
      YVALUE PRINT SKIP=0
$
   YTITLE=ACCELERATION RESPONSE - INCHES PER SECOND PER SECOND
     TCURVE=RIGID BODY FUSELAGE CG F/A RESPONSE
     XYPLOT ACCE 1 / 25000(T1)
     TCURVE=RIGID BODY FUSELAGE CG LATERAL RESPONSE
```

```
      XYPLOT ACCE 2 / 25000(T2)
      TCURVE=RIGID BODY FUSELAGE CG VERTICAL RESPONSE
      XYPLOT ACCE 3 / 25000(T3)
    YTITLE=ACCELERATION RESPONSE- RADIANS PER SECOND PER SECOND
      TCURVE=RIGID BODY FUSELAGE CG ROLL RESPONSE
      XYPLOT ACCE 4 / 25000(R1)
      TCURVE=RIGID BODY FUSELAGE CG PITCH RESPONSE
      XYPLOT ACCE 5 / 25000(R2)
$
$
$
$       ************************************
$       *                                  *
$       * STRAIN ENERGY DMAP ALTER--SOL 3  *
$       *                                  *
$       *  EXEC CONTROL DECK FOR MULTI-LEVEL*
$       *  STRAIN ENERGY AND CHOLESKY      *
$       *   DECOMPOSITION CHECK            *
$       *                                  *
$       *    VERSION 64A SOL 3             *
$       *                                  *
$       ************************************
$
$
$
ALTER 24
VECPLOT,   ,BGPDT,EQEXIN,CSTM,,/RBT///4  $
TRNSP      RBT/RB  $
ALTER 96
VEC        USET/V1/G/M/N  $
VEC        USET/V2/N/C,N,S/F  $
PARTN      RB,,V1/,RBNN,,/1  $
PARTN      RBNN,,V2/,RBFF,,/1  $
MPYAD      KGG,RB,/G1  $
MPYAD      RB,G1,/KRBG/1  $
NORM       G1/G2  $
MATPRN     KRBG// $
MATGPR     GPL,USET,SIL,G2//H/G//1.E-1  $
$
ALTER 121
MPYAD      KNN,RBNN,/N1  $
MPYAD      RBNN,N1,/KRBN/1  $
NORM       N1/N2  $
MATPRN     KRBN//  $
MATGPR     GPL,USET,SIL,N2//H/N//1 E-1  $
$
ALTER 125
MPYAD      KFF,RBFF,/F1  $
MPYAD      RBFF,F1,/KRBF/1  $
NORM       F1/F2  $
$
MATPRN     KRBF//  $
MATGPR     GPL,USET,SIL,F2//H/F//1.E-1  $
MATGPR     GPL,USET,SIL,KSS//C,N,S/C,N,S//1.E-1  $
MATGPR     GPL,USET,SIL,KFS//F/C,N,S//1.E-1  $
DECOMP     KFF/LF,UUAC/V,Y,SYM=-1//S,N,MINDIAG/S,N,DET/
           S,N,POWER/S,N,SING/S,N,NBRCHG/S,N,MAXRAT  $
PARAM      //SUB/V,N,NONPOS/0/NBRCHG  $
PARAMR     //GT//MAXRAT/1.E+3////V,N,ILLS$ COND$
PRTPARM    // $
```

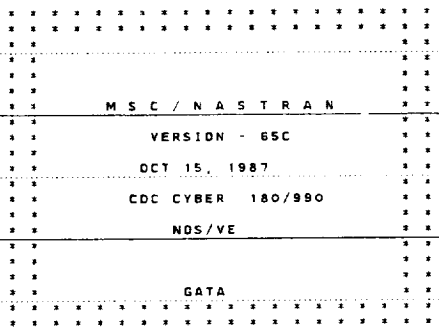
```
DIAGONAL   LF/DLF  $
MATGPR     GPL,USET,SIL,DLF//H/F  $
EXIT  $
$
$
$       ************************************
$       *                                  *
$       * KINETIC ENERGY DMAP ALTER--SOL 3 *
$       *                                  *
$       *  EXEC CONTROL DECK FOR           *
$       *  KINETIC ENERGY CHECK ON         *
$       *   MODAL CONTRIBUTORS             *
$       *                                  *
$       *   VERSION 64A SOL 3              *
$       *                                  *
$       ************************************
$
$
ALTER 452
$
$        COMMENT--THE FOLLOWING DMAP PERFORMS THE KINETIC
$                 ENERGY CALCULATION ON CHECKPOINTED DATA
$                 FROM A SOLUTION 3 RUN
$
OFP        LAMA// $
MPYAD      MGG,UGV,/MPHI/ $
ADD        UGV,MPHI/KES///1 $
DIAGONAL   MGG/GSIZE/COLUMN/0.0 $
MPYAD      GSIZE,KES,/CHK/1/ $
MATPRN     CHK//$
$
MATMOD     KES,,,,,/ENERGY,/7 $
PARAML     ENERGY//TRAILER/2/V,N,SIZE $
MATGEN     ,/IDENT/1/V,N,SIZE $
MATMOD     IDENT,,,,,/COL,/1 $
TRNSP      COL/ROW  $
MPYAD      ENERGY,ROW,/FULL $
DIAGONAL   FULL/SCALE/SQUARE/1.0 $
NORM       KES/KNORM $
MATMOD     KNORM,,,,,/FILT1,/2////C,Y,FILTER=0.9999 $
MPYAD      FILT1,SCALE,/MAX $
MATGPR     GPL,USET,SIL,MAX//H/G//0.00001 $
$
MATMOD     KNORM,,,,,/FILT,/2////C,Y,FILTER=0.01 $
MPYAD      FILT,SCALE,/KENG/ $
MATGPR     GPL,USET,SIL,KENG//H/G//0.00001 $
EXIT $
ENDALTER$
END$
```

```
0
0
```

APPENDIX C

MSC/NASTRAN OUTPUT FOR FINAL AH-1G SYSTEM IDENTIFICATION RUN

The following pages include the listings of the output files from the final MSC/NASTRAN run used to compute the structural eigenvalues and eigenvectors for the identified AH-1G structural model.



N A S T R A N E X E C U T I V E C O N T R O L D E C K E C H O

```
ID RVDDMPKA,GROUP65
$IAG 8,31
$OMPILER LIST,REF
$IAG 8,14,31
TIME 240
SOL 26
ALTER 396
MATPRT KAA// $
ALTER 342
MATPRT MAA// $
ALTER 396
MATPRT BAA// $
ALTER 454
MATPRT UAV// $
$
CEND
```

C A S E C O N T R O L D E C K E C H O

```
CARD
COUNT
    1      TITLE=AH-1G THREE-DIMENSIONAL BUILTUP DYNAMICS MODEL W/ CONTROLS MODELED
    2      SUBTITLE=DIFFICULT COMPONENTS GVT CONFIGURATION #1 (FULL-UP)
    3      LABEL=THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
    4      MAXLINES=500000
    5      ECHO=SORT(EIGC,ASET,ASET1,PARAM,MAT1,PVISC)
    6      MPC=1000
    7      CMETHOD=999
    8      $DYNRED=998
    9      $
   10      $
   11      $
   12      $       ************************************
   13      $       *                                  *
   14      $       *  CASE CONTROL DECK FOR NORMAL     *
   15      $       *  MODE ANALYSIS, SOL 3             *
   16      $       *                                  *
   17      $       ************************************
   18      $
   19      $
   20      $
   21      $
   22      SET 1=1001 THRU 1007 EXCEPT 1002,1005,1012,1013,
   23      1017 THRU 1028 EXCEPT 1019,1020,1027,2511,2572,2649,2697,19777
   24      OUTPUT
   25        DISPLACEMENT(SORT1,REAL)=1
   26      $ SPCFORCE=ALL
   27      $ ESE=ALL
   28      $
   29      $
   30      $
   31      $
   32      $
   33      $
   34      BEGIN BULK
```

INPUT BULK DATA CARD COUNT = 11866

S O R T E D B U L K D A T A E C H O

```
CARD
COUNT          1       2       3       4       5       6       7       8       9      10
    1-     ASET    19777   13      1006    2
    2-     ASET1   123     1001    1003    1023    1024    1004    1022    1017    +C1
    3-     +C1     1018    1029    1007    2511    2572    2649    2697    1028    +C2
    4-     +C2     1021    1012    1013    1026    1025
 8675-     EIGC    999     INV     POINT   1001    1       1.-5                    ABC
 8676-     +BC     -5.     0.0     -5.     -1.0    60.     12      12              DEF
 8677-     +EF     -5.     -1.0    -5.     -50.0   60.     12      12              GHI
 8678-     +HI     -5.     -50.0   -5.     -100.0  60.     12      12              JKL
 8679-     +KL     -5.     -100.0  -5.     -135.0  60.     12      12              MNO
 8680-     +NO     -5.     -135.0  -5.     -160.0  60.     12      12              POR
 8681-     +OR     -5.     -160.0  -5.     -190.0  60.     12      12              STU
 8682-     +TU     -5.     -190.0  -5.     -220.0  60.     12      12
 9419-     MAT1    *1              1.0+6           1.0+6
 9420-     MAT1    *10             1.0             1.0
 9421-     MAT1    *0057           3.9368+6        0.8+6           0.32
 9422-     MAT1    *0076           3.9368+6        0.8+6           0.32
 9423-     MAT1    *2014           9.4089+6        4.0+6
 9424-     MAT1    *2024           9.4089+6        4.0+6
 9425-     MAT1    *4130           28.435+6        11.0+6
 9426-     MAT1    *4340           28.435+6        11.0+6
 9427-     MAT1    *4620           28.435+6        11.0+6
 9428-     MAT1    *7075           9.2089+6        3.9+6
 9429-     MAT1    *9046           19.396+6        6.5+6
 9517-     PARAM   GRDPNT  0
 9518-     PARAM   LMODES  35
 9519-     PARAM   NEWSEQ  3
 9520-     PARAM   WTMASS  .00259
10161-     PVISC   *1              0.0             0.0
10162-     PVISC   *10             0.0             0.0
10163-     PVISC   *0076           1.847569        0.0
10164-     PVISC   *2014           98.13098        34.85089
10165-     PVISC   *2024           98.13098        34.85099
10166-     PVISC   *4130           99.28947        0.0
10167-     PVISC   *4340           99.28947        0.0
10168-     PVISC   *4620           98.28947        0.0
10169-     PVISC   *7075           98.13098        34.85099
10170-     PVISC   *9046           200.0           0.0
           ENDDATA
```

TOTAL COUNT= 10236

*** USER WARNING MESSAGE 2251A, ONE OR MORE MAT1 CARDS HAVE UNREASONABLE OR INCONSISTENT VALUES OF E,G OR NU.
ID OF FIRST ONE = 1

*** USER WARNING MESSAGE 2251B, THE NUMBER OF MAT1 CARDS HAVING UNREASONABLE OR INCONSISTENT VALUES FOR E,G AND/OR NU IS 4
ID OF LAST ONE = 76

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

N A S T R A N S O U R C E P R O G R A M C O M P I L A T I O N

DMAP-DMAP INSTRUCTION
NO

*** USER WARNING MESSAGE 54,
PARAMETER NAMED LMODES NOT REFERENCED

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

SEQUENCE PROCESSOR OUTPUT

THERE ARE 735 POINTS DIVIDED INTO 1 GROUP(S)

CONNECTION DATA

ELEMENT TYPE	NUMBER	ASSEMBLY TIME(SEC)
ROD	272	1.77
SHEAR	540	14.04
TRMEM	243	3.16
CONROD	2800	18.20
ELAS2	13	.02
QDMEM	160	4.16
QUAD4	2	.05
BAR	358	4.65
TRIA3	17	.22

TOTAL MATRIX ASSEMBLY TIME FOR 4405 ELEMENTS IS 46.27 SECONDS

RIGID ELEMENT PROCESSING COMPLETED.

ORIGINAL PERFORMANCE DATA

SUPER(GROUP) ID	NO. GRIDS	AV. CONNECTIVITY	C-AVERAGE	C-RMS	C-MAXIMUM	P-GROUPS	P-AVERAGE	DECOMP TIME(SECS) (6.0 DOF/GRID)
0	735	8.66	96.64	108.03	170	13	78.92	410.320

RESEQUENCED PERFORMANCE DATA

SUPER(GROUP) ID	NO. GRIDS	AV. CONNECTIVITY	C-AVERAGE	C-RMS	C-MAXIMUM	P-GROUPS	P-AVERAGE	DECOMP TIME(SECS) (6.0 DOF/GRID)	METHOD
0	735	8.66	18.11	20.30	38	0	0.00	15.818	ACTIVE

*** USER WARNING MESSAGE 2080, AN OBSOLETE CAPABILITY FOR ELEMENT PROCESSING IS BEING USED.
THIS CAPABILITY MAY BE DELETED IN THE NEXT SYSTEM.

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

O U T P U T F R O M G R I D P O I N T W E I G H T G E N E R A T O R

REFERENCE POINT = 0

M O

* 6.910710E+03	-8.573151E-14	-2.679110E-15	1.097363E-11	5.225896E+05	3.980523E+02 *
* -8.573151E-14	6.910710E+03	0.000000E+00	-5.225896E+05	-1.097363E-11	1.364420E+06 *
* -2.679110E-15	0.000000E+00	6.910710E+03	-3.980523E+02	-1.364420E+06	0.000000E+00 *
* 0.000000E+00	-5.225896E+05	-3.980523E+02	5.009936E+07	-7.165883E+04	-1.064261E+08 *
* 5.225896E+05	0.000000E+00	-1.364420E+06	-7.165883E+04	3.653788E+08	-2.622282E+04 *
* 3.980523E+02	1.364420E+06	0.000000E+00	-1.064261E+08	-2.622282E+04	3.173401E+08 *

S

* 1.000000E+00	0.000000E+00	0.000000E+00 *
* 0.000000E+00	1.000000E+00	0.000000E+00 *
* 0.000000E+00	0.000000E+00	1.000000E+00 *

DIRECTION MASS AXIS SYSTEM (S)	MASS	X-C.G.	Y-C.G.	Z-C.G
X	6.910710E+03	1.587917E-15	-5.759933E-02	7.562025E+01
Y	6.910710E+03	1.974356E+02	-1.587917E-15	7.562025E+01
Z	6.910710E+03	1.974356E+02	-5.759933E-02	0.000000E+00

I(S)

* 1.058098E+07	1.502485E+05	3.248277E+06 *
* 1.502485E+05	5.647519E+07	5.632363E+04 *
* 3.248277E+06	5.632363E+04	4.795490E+07 *

I(Q)

* 4.823489E+07		*
*	5.647593E+07	*
*		1.030024E+07 *

Q

* 8.596323E-02	-2.883585E-03	9.962941E-01 *
* -5.242293E-03	9.999807E-01	2.346675E-03 *
* -9.962845E-01	-5.510557E-03	8.594645E-02 *

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

*** USER INFORMATION MESSAGE 4158---STATISTICS FOR SYMMETRIC DECOMPOSITION OF DATA BLOCK KOO FOLLOW
MAXIMUM RATIO OF MATRIX DIAGONAL TO FACTOR DIAGONAL = 1.0E+04 AT ROW NUMBER 2617

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... MAA

				COLUMN 1			
1	1.079507E-01	1.295174E-01	5.088319E-03	1.892079E-01	6.468098E-02	1.048064E-01	6
7	1.268614E-01	-7.804044E-02	-6.927795E-02	7.038293E-02	1.800444E-02	-3.647305E-04	12
13	-1.269823E-02	1.304166E-02	-2.486105E-02	-7.924606E-03	-1.720001E-04	-9.761648E-04	18
19	3.550359E-02	-5.101141E-03	-3.089020E-03	4.603259E-03	-2.880651E-02	1.206546E-02	24
25	2.742551E-03	-3.387704E-02	-1.881437E-02	1.297593E-03	4.834658E-03	-7.711895E-04	30
31	4.215122E-04	-2.100718E-04	3.493367E-04	4.189985E-04	-5.876627E-04	-5.996237E-05	36
37	-1.590484E-04	-1.343924E-04	-4.671659E-04	1.657903E-04	-4.970828E-04	-8.466289E-05	42
43	1.389335E-02	-7.261807E-03	1.866016E-02	8.341331E-03	-3.331011E-03	2.596970E-03	48
49	1.439826E-05	-1.887558E-05	-1.125297E-05	7.172897E-05	-1.702057E-05	4.171267E-05	54
55	4.701622E-03	4.480724E-04	-1.076404E-03	6.328131E-04	8.545159E-05	4.197406E-04	60
61	-1.773484E-06	9.859406E-06	3.837760E-05				63

				COLUMN 2			
1	1.295174E-01	7.116749E-01	-1.151028E-01	3.859166E-01	2.850043E-01	8.519672E-02	6
7	1.489556E-01	-3.622086E-01	-3.075277E-01	4.463219E-01	-7.882668E-02	2.288242E-01	12
13	-1.236553E-01	8.223223E-02	-2.664634E-01	-6.030820E-03	-3.166409E-03	-1.035943E-02	18
19	1.237315E-02	-7.272491E-03	-6.270247E-03	-2.907019E-02	-1.088720E-01	7.319061E-02	24
25	-2.804075E-02	-2.342942E-01	-1.054116E-01	-7.124898E-03	1.948270E-02	1.607202E-02	30
31	2.555136E-03	-1.818321E-03	2.649282E-03	2.137270E-03	-3.080758E-03	-1.703019E-04	36
37	-1.909407E-03	-1.263563E-03	-3.824716E-03	-1.429449E-04	-3.408388E-03	2.747303E-04	42
43	3.284036E-02	-1.106110E-02	6.399033E-02	1.443094E-02	-1.178509E-02	3.238143E-03	48
49	1.325349E-05	4.524812E-03	-2.237233E-04	1.091353E-04	4.524608E-03	2.567059E-04	54
55	6.219893E-03	7.400815E-04	-1.847187E-03	1.177877E-03	1.708983E-04	1.178903E-03	60
61	8.614872E-05	2.716265E-04	9.696084E-05				63

				COLUMN 3			
1	5.088319E-03	-1.151028E-01	3.748542E-01	-2.192326E-01	2.403010E-02	1.319627E-01	6
7	8.371151E-02	2.097015E-01	1.345221E-01	-2.468394E-01	9.391534E-02	-1.846051E-01	12
13	8.527193E-02	-4.288461E-02	1.642389E-01	-8.023083E-03	3.239043E-03	6.356735E-03	18
19	6.613404E-02	-1.056901E-02	-8.776330E-04	3.188644E-02	3.388423E-02	-3.676902E-02	24
25	3.325837E-02	1.318389E-01	4.995210E-02	8.951437E-03	-5.777739E-03	-2.322848E-02	30
31	-1.478269E-03	9.951908E-04	-1.459071E-03	-1.117078E-03	1.133372E-03	5.010435E-05	36
37	1.424944E-03	6.566237E-04	2.168026E-03	5.709821E-04	1.613522E-03	-5.246248E-04	42
43	-8.576148E-04	-9.543109E-03	-1.543471E-02	4.795891E-03	1.212202E-03	1.240962E-03	48
49	1.403371E-06	-3.171167E-03	1.140222E-04	5.272620E-05	-3.171209E-03	-1.007576E-04	54
55	3.520830E-03	4.418646E-04	-5.219035E-04	2.460836E-04	3.505911E-05	-2.228798E-05	60
61	-4.481631E-05	-1.483722E-04	-3.493303E-06				63

				COLUMN 4			
1	1.892079E-01	3.859166E-01	-2.192326E-01	1.705115E+00	-2.189274E-01	-3.246335E-02	6
7	3.899754E-01	-3.129793E-01	-1.274801E-01	2.425006E-01	7.961609E-02	-5.433597E-02	12
13	-5.785365E-02	3.583153E-02	-3.014977E-02	-3.983771E-02	-3.181818E-03	-1.188172E-03	18
19	1.219283E-01	-6.804547E-03	-1.103535E-02	2.103293E-02	-8.770370E-02	3.493629E-02	24
25	5.823364E-03	-1.017601E-01	-5.560050E-02	1.818505E-03	1.405869E-02	1.330667E-02	30
31	1.703411E-03	-3.201046E-04	9.377452E-04	1.637941E-03	-1.232600E-03	-1.874511E-04	36
37	-6.247610E-04	-1.146288E-04	-1.151946E-03	5.290978E-04	-9.081377E-04	-2.333745E-04	42
43	4.933647E-02	-1.938698E-02	6.251591E-02	3.033969E-02	-6.769779E-03	1.342474E-02	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... MAA

				COLUMN 4			
49	9.586793E-05	-2.788620E-03	1.352866E-04	2.837343E-04	-2.789503E-03	4.313241E-05	54
55	1.965232E-02	1.383189E-03	-4.310357E-03	2.463698E-03	2.837230E-04	1.114213E-03	60
61	-1.101124E-04	-1.451355E-04	1.444678E-04				63

				COLUMN 5			
1	6.468098E-02	2.850043E-01	2.403010E-02	-2.199274E-01	1.313855E+00	1.511446E-01	6
7	4.166411E-02	1.894371E-01	-9.466117E-02	1.887968E-01	-2.264071E-02	8.824073E-02	12
13	-2.653463E-02	3.663278E-02	-1.337176E-01	-3.136807E-03	-2.125557E-03	-5.226126E-03	18
19	6.841136E-02	-3.824777E-02	-5.335837E-03	-9.888193E-03	-6.808707E-02	3.841716E-02	24
25	1.180798E-02	-9.766851E-02	-5.687778E-02	4.222956E-03	1.826508E-02	-2.634327E-02	30
31	2.746302E-04	-5.091809E-04	6.798924E-04	5.185510E-04	-2.305032E-03	-5.398982E-04	36
37	1.486248E-04	-3.249708E-04	-1.246972E-03	7.021933E-04	-2.141183E-03	8.125963E-05	42
43	2.488431E-02	-3.129984E-02	4.873991E-02	1.616803E-02	-1.602558E-02	-3.316405E-06	48
49	-4.037469E-05	3.715839E-03	-2.725214E-04	1.480707E-04	3.715551E-03	2.544987E-04	54
55	5.716583E-03	1.604520E-03	-1.791211E-03	1.118932E-03	1.869846E-04	1.378507E-03	60
61	1.395633E-04	3.478709E-04	9.530785E-05				63

				COLUMN 6			
1	1.048064E-01	8.516672E-02	1.319627E-01	-3.246335E-02	1.511446E-01	1.802126E+00	6
7	1.362726E-01	-1.392082E-01	-2.737043E-02	1.919407E-01	2.858953E-02	-8.483938E-03	12
13	-3.183450E-02	2.613238E-02	-4.825277E-02	-1.740239E-02	-3.104851E-03	-1.879803E-03	18
19	2.707719E-02	1.685599E-02	-6.021240E-03	4.115017E-03	-4.460786E-02	2.333860E-02	24
25	-4.774798E-03	-7.513281E-02	-3.869547E-02	2.708042E-04	3.680816E-03	1.103127E-02	30
31	1.273449E-03	-5.124160E-04	9.282878E-04	9.539098E-04	-4.828082E-04	-9.765196E-06	36
37	-1.071681E-03	-2.316115E-04	-1.249339E-03	-2.110649E-04	-3.785210E-04	-8.145731E-05	42
43	1.808271E-02	3.712522E-03	1.975238E-02	8.384712E-03	-2.180318E-04	4.020725E-03	48
49	4.385573E-05	-7.514598E-05	3.172513E-05	3.967280E-05	-7.516466E-05	1.520228E-05	54
55	5.386013E-03	-1.468737E-04	-1.005710E-03	6.297192E-04	9.155251E-05	3.238162E-04	60
61	-3.609900E-05	-1.007628E-04	2.028524E-05				63

				COLUMN 7			
1	1.268614E-01	1.489556E-01	8.371151E-02	3.899754E-01	4.166411E-02	1.362726E-01	6
7	1.043134E+00	-2.297751E-01	-5.350881E-01	4.145523E-01	2.479675E-01	-1.031077E-01	12
13	-4.696278E-02	4.106105E-02	-9.372937E-02	-4.386767E-02	-1.323198E-02	-3.678695E-03	18
19	3.231694E-01	-1.427416E-03	-1.833647E-02	4.610812E-02	-1.286539E-01	5.064581E-02	24
25	4.122344E-02	-1.028844E-01	-8.715277E-02	-1.250895E-02	1.884864E-02	9.024269E-02	30
31	3.003528E-03	-1.595731E-03	2.381271E-03	3.396188E-03	-2.071539E-03	3.966842E-04	36
37	4.332683E-04	-1.490415E-03	-2.800384E-03	2.594206E-03	-1.648327E-03	-9.881958E-04	42
43	1.321718E-01	-8.233329E-03	1.422620E-01	7.885252E-02	1.549245E-02	5.476453E-02	48
49	4.809806E-04	-1.940923E-02	1.270060E-03	6.551216E-04	-1.941159E-02	-4.747671E-04	54
55	6.170762E-02	-7.090878E-06	-1.140489E-02	6.596336E-03	6.404293E-04	7.841835E-04	60
61	-8.468193E-04	-1.744501E-03	2.303055E-04				63

				COLUMN 8			
1	-7.804044E-02	-3.622088E-01	2.097015E-01	-3.129793E-01	1.894371E-01	-1.392082E-01	6
7	-2.297751E-01	1.951728E+00	7.221891E-01	-4.083494E-01	9.755871E-02	-3.405608E-01	12
13	2.067788E-01	-1.130665E-01	4.130388E-01	1.891798E-02	5.373853E-03	1.615425E-02	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

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			COLUMN 8				
19	4.822880E-02	1.131669E-02	1.209439E-02	-1.693685E-02	3.457395E-01	-1.351160E-01	24
25	1.151681E-01	5.679405E-01	1.864489E-01	-1.714995E-02	-3.050227E-02	2.445386E-02	30
31	-4.105247E-03	6.850991E-03	-5.925679E-03	-4.450281E-03	1.144605E-02	-1.516798E-03	36
37	3.294392E-03	6.127605E-03	8.001243E-03	1.778480E-03	1.198793E-02	1.830641E-03	42
43	-4.570474E-02	1.258155E-02	-1.095323E-01	-7.439950E-03	3.845368E-02	1.287913E-02	48
49	6.168004E-05	-2.459358E-02	1.246042E-03	9.297372E-06	-2.459304E-02	-1.056612E-03	54
55	8.966767E-03	-1.036275E-03	7.415480E-04	-7.986873E-04	-1.617010E-04	-2.824498E-03	60
61	-5.468518E-04	-1.896530E-03	-2.649135E-04				63
			COLUMN 9				
1	-6.927785E-02	-3.075277E-01	1.345221E-01	-1.274801E-01	-9.466117E-02	-2.737043E-02	6
7	-5.350881E-01	7.221891E-01	2.210838E+00	-8.767983E-01	1.012946E-01	-9.829379E-02	12
13	2.387572E-01	-1.598146E-01	6.530236E-01	-4.679599E-04	4.310738E-03	2.547788E-02	18
19	1.243911E-02	-1.648055E-02	2.464175E-02	5.590945E-02	1.235912E-01	-1.019743E-01	24
25	8.078428E-02	5.274620E-01	2.322572E-01	3.658020E-02	-2.879557E-02	-2.584958E-02	30
31	-5.003090E-03	2.061943E-04	5.257027E-04	-6.388755E-03	1.473296E-03	3.662167E-03	36
37	2.801861E-03	2.066835E-03	8.638576E-03	-1.849296E-03	4.637012E-03	8.764618E-05	42
43	-7.229146E-02	-1.172253E-02	-1.214391E-01	-2.841391E-02	-9.420403E-04	-2.677327E-02	48
49	-2.198420E-04	8.902387E-04	-3.286632E-04	-2.191421E-04	8.911272E-04	-7.877511E-05	54
55	-2.290952E-02	9.821183E-04	4.553870E-03	-2.932844E-03	-2.718436E-04	-7.150746E-04	60
61	3.007463E-04	5.029782E-04	-1.240044E-04				63
			COLUMN 10				
1	7.038293E-02	4.463219E-01	-2.466394E-01	2.425006E-01	1.887868E-01	1.919407E-01	6
7	4.145523E-01	-4.083494E-01	-8.767983E-01	3.133633E+00	-3.619948E-01	5.822551E-01	12
13	-5.831024E-01	5.436031E-02	-1.014729E+00	-1.451450E-01	-2.300422E-01	-4.019542E-02	18
19	1.319104E-02	1.910510E-01	-6.878256E-02	-1.274332E-01	-3.492875E-01	3.565580E-01	24
25	-3.200636E-02	-8.666931E-01	-5.504834E-01	1.161285E-01	2.841286E-02	-1.882417E-01	30
31	5.289331E-03	-9.899104E-03	1.112630E-02	3.667860E-03	-1.914914E-02	4.790051E-03	36
37	-4.324524E-03	-8.629445E-03	-1.758844E-02	3.425305E-03	-1.774400E-02	-1.024068E-02	42
43	8.299823E-02	-1.326313E-01	2.367443E-01	4.186166E-02	-1.136729E-01	-2.613454E-02	48
49	-3.773310E-04	4.801521E-02	-2.795319E-03	3.460218E-04	4.801481E-02	2.366425E-03	54
55	-9.323445E-03	7.126516E-03	-3.763190E-03	3.248886E-03	6.641965E-04	8.056993E-03	60
61	1.365606E-03	3.771887E-03	6.041464E-04				63
			COLUMN 11				
1	1.800444E-02	-7.868268E-02	9.391534E-02	7.961609E-02	-2.264071E-02	2.658953E-02	6
7	2.479675E-01	9.755671E-02	1.012946E-01	-3.619948E-01	5.472685E-01	-2.982998E-01	12
13	1.167608E-01	-4.986107E-02	2.485598E-01	-6.097481E-03	2.119574E-02	9.709873E-03	18
19	1.914722E-01	1.586657E-02	-1.860577E-02	3.039826E-02	7.892453E-02	-6.848537E-02	24
25	3.363278E-02	1.821717E-01	7.628464E-02	-1.339584E-02	-2.955055E-02	2.803366E-02	30
31	-3.057560E-04	1.196507E-03	-1.181544E-03	7.963460E-04	3.267766E-03	-2.223843E-03	36
37	1.238189E-03	9.936332E-04	2.810238E-03	5.011397E-04	4.964839E-03	4.488576E-04	42
43	6.971660E-02	8.671282E-02	-2.170578E-02	3.315316E-02	5.500237E-02	4.172224E-02	48
49	6.593151E-04	-2.189322E-02	1.572696E-03	1.309177E-04	-2.189582E-02	-9.841201E-04	54
55	4.078927E-02	-5.512737E-03	-5.887716E-03	3.112238E-03	8.779862E-05	-2.705443E-03	60
61	-1.108744E-03	-2.226886E-03	2.528618E-05				63

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			COLUMN 12				
1	-3.647305E-04	2.288242E-01	-1.848051E-01	-5.433597E-02	8.924073E-02	-9.493839E-03	6
7	-1.031077E-01	-3.405608E-01	-9.829379E-02	5.822551E-01	-2.982998E-01	2.078824E+00	12
13	4.909482E-01	1.242886E-01	-1.180076E+00	4.302287E-01	-4.340413E-02	-4.327292E-02	18
19	-4.325541E-02	-4.915155E-02	4.589055E-02	-1.008561E-01	-2.450677E-01	1.852263E-01	24
25	-4.340485E-02	-2.709321E-01	-1.258633E-01	6.312943E-02	2.373971E-02	4.672143E-02	30
31	2.527311E-03	-4.697401E-03	5.639575E-03	9.882004E-04	-9.585130E-03	5.459587E-03	36
37	-1.854145E-03	-3.618788E-03	-7.134099E-03	-7.850242E-04	-1.437709E-02	2.568591E-03	42
43	5.982948E-03	-9.400140E-02	1.105603E-01	1.155341E-03	-7.747821E-02	-4.470294E-02	48
49	-4.513449E-04	3.487862E-02	-2.279546E-03	9.360515E-05	3.487942E-02	1.574579E-03	54
55	-2.715283E-02	6.449063E-03	7.747227E-04	-4.746056E-04	1.496173E-04	4.768728E-03	60
61	1.253322E-03	3.300540E-03	3.629170E-04				63
			COLUMN 13				
1	-1.269823E-02	-1.236553E-01	8.527193E-02	-5.785385E-02	-2.653463E-02	-3.183460E-02	6
7	-4.696278E-02	2.067789E-01	2.387572E-01	-5.431024E-01	1.167608E-01	4.909482E-01	12
13	1.779905E+00	-5.097385E-02	-4.382205E-01	3.594639E-01	9.527363E-03	-1.707498E-02	18
19	2.129408E-02	-4.778545E-03	5.821868E-03	1.584909E-02	1.870043E-01	-9.515829E-02	24
25	3.475347E-02	2.868142E-01	1.123420E-01	-5.605662E-03	-1.901274E-02	-2.824752E-02	30
31	-1.268769E-03	1.716385E-03	-1.925858E-03	-1.025119E-03	2.954334E-03	-7.731391E-04	36
37	1.175980E-03	1.274894E-03	3.223765E-03	5.625868E-05	3.903464E-03	-8.406431E-05	42
43	-1.438450E-02	1.536501E-02	-5.003859E-02	-3.328356E-03	1.695953E-02	5.829638E-03	48
49	5.976115E-05	-8.834939E-03	4.706578E-04	-7.027349E-06	-8.835080E-03	-3.829609E-04	54
55	3.723186E-03	-5.743152E-04	1.632271E-05	-1.871701E-04	-6.345438E-05	-1.119304E-03	60
61	-2.167402E-04	-5.809375E-04	-6.536462E-05				63
			COLUMN 14				
1	1.304188E-02	8.223223E-02	-4.288461E-02	3.883153E-02	3.663278E-02	2.813238E-02	6
7	4.106105E-02	-1.130685E-01	-1.598146E-01	5.436031E-02	-4.986107E-02	1.242886E-01	12
13	-5.097365E-02	2.050178E+00	-1.863610E-01	-1.381796E-02	4.655947E-01	-7.641462E-03	18
19	5.578577E-04	-4.798813E-02	4.005389E-03	-1.110970E-02	-1.177572E-01	4.836191E-02	24
25	-2.053422E-02	-2.048395E-01	-7.253437E-02	1.493237E-02	2.624479E-03	-5.208752E-02	30
31	7.995425E-04	-1.801763E-03	1.789384E-03	7.815536E-04	-3.688607E-03	9.946062E-05	36
37	-6.142081E-04	-1.442455E-03	-2.784171E-03	2.707019E-04	-3.720058E-03	-6.827198E-04	42
43	1.238722E-02	-2.264304E-02	3.507518E-02	5.761955E-03	-1.960479E-02	-6.851577E-03	48
49	-8.470475E-05	8.349854E-03	-5.229542E-04	6.377255E-05	8.349505E-03	4.144310E-04	54
55	-2.785361E-03	1.678583E-03	-6.282052E-04	4.360424E-04	1.094219E-04	1.440300E-03	60
61	2.831868E-04	7.668583E-04	1.191926E-04				63
			COLUMN 15				
1	-2.486105E-02	-2.864634E-01	1.642369E-01	-3.014977E-02	-1.337176E-01	-4.825277E-02	6
7	-9.372837E-02	4.130398E-01	6.530236E-01	-1.014729E+00	2.485599E-01	-1.180076E+00	12
13	-4.382205E-01	-1.863610E-01	2.790104E+00	-3.748529E-01	4.501083E-02	3.289877E-01	18
19	6.239319E-02	5.347984E-02	5.210471E-02	1.054456E-01	1.831201E-01	-1.618480E-01	24
25	4.642164E-02	6.622199E-01	3.310625E-01	-3.537113E-02	-3.173046E-02	3.099119E-01	30
31	-2.829869E-03	6.141166E-03	-6.821314E-03	-3.415857E-03	1.557459E-02	2.304356E-03	36
37	2.393488E-03	5.732856E-03	1.081631E-02	-1.733248E-03	1.267529E-02	6.620802E-03	42
43	-4.184017E-02	9.807347E-02	-1.499955E-01	-1.780186E-02	8.193463E-02	2.284801E-02	48

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			COLUMN 15			
49	3.278185E-04	-3.640841E-02	2.126662E-03	-2.146610E-04	-3.640775E-02	-1.789791E-03	54
55	1.414401E-02	-5.857207E-03	1.896466E-03	-1.751358E-03	-3.848057E-04	-5.642955E-03	60
61	-1.092240E-03	-3.095995E-03	-4.789749E-04				63

			COLUMN 16			
1	-7.924606E-03	-6.030820E-03	-8.023083E-03	-3.983771E-02	-3.136807E-03	-1.740239E-02	6
7	-4.386767E-02	1.691798E-02	-4.679599E-04	-1.451450E-01	-6.097481E-03	4.302267E-01	12
13	3.594639E-01	-1.381796E-02	-3.748529E-01	2.321790E+00	5.403889E-04	-1.479756E-02	18
19	-2.681110E-02	2.876103E-04	4.534552E-03	-1.522178E-02	7.567208E-02	-2.425880E-02	24
25	-3.382147E-04	6.930111E-02	2.563839E-02	-7.432738E-03	-5.313211E-03	-1.388600E-03	30
31	9.314955E-05	1.178850E-04	-2.613634E-05	5.935031E-05	5.067611E-04	-3.042234E-04	36
37	-1.079321E-04	8.003425E-05	1.315393E-04	-1.886111E-04	5.572120E-04	2.716747E-04	42
43	-6.568641E-03	1.026318E-02	-1.317343E-02	-4.361411E-03	6.028555E-03	1.219581E-03	48
49	1.765953E-05	-1.805772E-03	1.195810E-04	-3.423832E-05	-1.805780E-03	-9.853923E-05	54
55	-7.873265E-04	-4.263437E-04	3.595881E-04	-2.588755E-04	-4.681773E-05	-4.339129E-04	60
61	-5.500888E-05	-1.415864E-04	-2.644167E-05				63

			COLUMN 17			
1	-1.720001E-04	-3.166409E-03	3.239043E-03	-3.181618E-03	-2.125557E-03	-3.104851E-03	6
7	-1.323198E-02	5.373853E-03	4.310738E-03	-2.300422E-01	2.119574E-02	-4.340413E-02	12
13	9.527363E-03	4.855947E-01	4.501083E-02	5.403889E-04	2.355820E+00	1.718625E-03	18
19	-4.610058E-03	-3.337709E-02	9.907931E-03	3.999267E-03	-8.552063E-03	-1.158508E-02	24
25	-4.113518E-03	-2.375950E-04	1.870978E-02	-5.694985E-03	-5.321419E-03	1.964721E-03	30
31	-5.620796E-05	1.960540E-04	-1.879719E-04	1.882868E-05	5.482849E-04	-3.916302E-04	36
37	4.660648E-05	1.555271E-04	3.238133E-04	-2.013695E-04	3.570440E-04	6.919018E-04	42
43	-1.620999E-03	1.023217E-02	-1.136704E-02	-1.789396E-03	6.598944E-03	1.678243E-03	48
49	2.670231E-05	-2.336122E-03	1.416179E-04	-2.155956E-05	-2.336107E-03	-1.176675E-04	54
55	8.406050E-04	-3.987258E-04	9.308852E-05	-1.239252E-04	-2.218957E-05	-3.726581E-04	60
61	-6.614215E-05	-1.878581E-04	-2.592425E-05				63

			COLUMN 18			
1	-9.761648E-04	-1.035943E-02	6.356735E-03	-1.188172E-03	-5.226126E-03	-1.879803E-03	6
7	-3.679695E-03	1.615425E-02	2.547788E-02	-4.019542E-02	9.709873E-03	-4.327292E-02	12
13	-1.707496E-02	-7.641462E-03	3.289677E-01	-1.478786E-02	1.718825E-03	2.427411E+00	18
19	2.419836E-03	2.120952E-03	2.078482E-03	4.047332E-03	7.921048E-03	-6.426966E-03	24
25	1.840924E-03	2.632844E-02	1.307011E-02	-1.387450E-03	-1.254489E-03	1.229237E-02	30
31	-1.093692E-04	2.396892E-04	-2.658597E-04	-1.333128E-04	6.518968E-04	9.238138E-05	36
37	9.260219E-05	2.239116E-04	4.217888E-04	-6.876896E-05	4.944705E-04	2.626186E-04	42
43	-1.650694E-03	3.788723E-03	-5.899745E-03	-7.067007E-04	3.223047E-03	8.824378E-04	48
49	1.286780E-05	-1.429819E-03	8.351071E-05	-8.493754E-06	-1.429793E-03	-7.032165E-05	54
55	5.515887E-04	-2.301048E-04	7.511343E-05	-6.930861E-05	-1.515936E-05	-2.218878E-04	60
61	-4.285564E-05	-1.214931E-04	-1.881421E-05				63

			COLUMN 19			
1	3.550359E-02	1.237315E-02	6.613404E-02	1.219283E-01	6.841136E-02	2.707719E-02	6
7	3.231694E-01	4.822880E-02	1.243911E-02	1.319104E-02	1.914722E-01	-4.325541E-02	12
13	2.129408E-02	5.578577E-04	6.239319E-02	-2.691110E-02	-4.610058E-03	2.419836E-03	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
INTERMEDIATE MATRIX ... MAA

			COLUMN 19			
19	6.612301E-01	-1.021883E-01	-2.853454E-02	4.090995E-02	-9.321869E-02	2.360536E-02	24
25	5.901139E-02	3.481801E-02	-1.409709E-02	-1.030311E-02	8.989990E-02	-1.894804E-02	30
31	-1.254933E-05	-5.962930E-04	7.300952E-04	4.085832E-04	-2.655462E-03	1.295393E-03	36
37	1.574456E-03	-2.591199E-04	1.242375E-04	2.143112E-03	-2.492982E-03	2.458187E-04	42
43	1.176651E-01	-9.946274E-02	8.298205E-02	1.130454E-01	-5.936708E-02	-3.209098E-02	48
49	3.893116E-04	5.645373E-04	-1.115789E-03	1.260055E-03	5.548377E-04	1.919187E-04	54
55	5.138888E-02	9.260970E-03	-1.602568E-02	6.061511E-03	2.857979E-04	2.854488E-03	60
61	1.033643E-04	1.980826E-03	8.844660E-04				63

			COLUMN 20			
1	-5.101141E-03	-7.272491E-03	-1.056901E-02	-6.604647E-03	-3.824777E-02	1.665599E-02	6
7	-1.427418E-03	1.131669E-02	-1.648055E-02	1.910510E-01	1.588657E-02	-4.915155E-02	12
13	-4.778545E-03	-4.798813E-02	5.347984E-02	2.876103E-04	-3.337709E-02	2.120852E-03	18
19	-1.021883E-01	1.079235E+00	-2.736642E-02	4.370903E-02	1.048480E-01	-3.858516E-02	24
25	-4.694509E-02	1.093089E-01	3.849227E-02	8.005561E-02	-1.545323E-01	7.873186E-02	30
31	7.017717E-04	-1.069294E-04	-2.322449E-04	-3.672937E-04	6.095928E-03	5.645207E-03	36
37	-9.123712E-04	-1.721018E-04	4.560172E-04	-1.255293E-04	6.424625E-03	-6.041374E-03	42
43	6.438010E-03	2.455705E-01	-1.205784E-01	-1.993383E-02	3.888389E-02	-1.034879E-02	48
49	6.420765E-04	1.493210E-02	-4.025477E-04	-8.592398E-04	1.493123E-02	1.749693E-04	54
55	-1.204359E-02	-1.080833E-02	3.040070E-03	-1.593816E-03	-1.762804E-04	-1.615882E-03	60
61	-2.076448E-04	6.428890E-05	5.874622E-05				63

			COLUMN 21			
1	-3.089020E-03	-6.270247E-03	-8.778330E-04	-1.103535E-02	-5.335837E-03	-6.021240E-03	6
7	-1.833687E-02	1.209439E-02	2.484175E-02	-6.878256E-02	-1.860577E-02	4.589055E-02	12
13	5.821869E-03	4.005399E-03	5.210471E-02	4.534552E-03	9.907931E-03	2.078482E-03	18
19	-2.853464E-02	-2.736842E-02	2.528557E-01	-4.550352E-03	-4.541604E-04	-2.538219E-03	24
25	4.430545E-04	3.819940E-02	2.349508E-02	1.287480E-02	-2.140137E-02	1.348138E-01	30
31	-1.888347E-05	2.639296E-04	-2.818000E-04	-1.325850E-04	1.297196E-03	5.003694E-04	36
37	4.664377E-05	3.868611E-04	4.216504E-04	-3.632615E-04	-7.013318E-05	2.127738E-03	42
43	-8.898066E-03	-8.738278E-04	1.278888E-02	-5.614771E-03	1.251732E-02	5.172142E-03	48
49	1.153125E-05	-7.356934E-03	4.391762E-04	1.071459E-05	-7.356675E-03	-3.702955E-04	54
55	2.158210E-03	-8.177148E-04	4.884988E-04	-5.516560E-04	-1.374384E-04	-1.274920E-03	60
61	-2.210835E-04	-6.709235E-04	-1.406914E-04				63

			COLUMN 22			
1	4.603259E-03	-2.907019E-02	3.188644E-02	2.103289E-02	-9.888193E-03	4.115017E-03	6
7	4.610612E-02	-1.693685E-02	5.590945E-02	-1.274332E-01	3.039826E-02	-1.008561E-01	12
13	1.584909E-02	-1.110970E-02	1.054456E-01	-1.522178E-02	3.989267E-03	4.047332E-03	18
19	4.090895E-02	4.370903E-02	-4.550352E-03	1.663558E-01	-2.188258E-02	-3.612499E-03	24
25	9.197745E-04	6.250881E-02	3.006798E-02	1.578338E-02	-9.420743E-03	7.711660E-03	30
31	-3.478485E-04	3.699471E-04	-5.716645E-04	-2.622101E-04	9.357781E-04	6.707688E-04	36
37	5.078524E-04	2.883181E-04	1.146163E-03	2.250430E-04	1.154168E-03	-7.462981E-04	42
43	5.469109E-03	2.164315E-03	-6.883351E-03	5.662039E-03	3.181278E-03	5.013788E-03	48
49	5.902335E-05	-2.845637E-03	1.876887E-04	5.935871E-05	-2.846099E-03	-8.912343E-05	54
55	5.347049E-03	-8.758836E-05	-9.899499E-04	5.391488E-04	2.293601E-05	-1.834404E-04	60
61	-1.140768E-04	-1.885102E-04	2.727406E-05				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... MAA

			COLUMN 23				
1	-2.880851E-02	-1.088720E-01	3.388423E-02	-8.770370E-02	-5.608707E-02	-4.460786E-02	6
7	-1.286539E-01	3.457396E-01	1.235812E-01	-3.492875E-01	7.692453E-02	-2.450877E-01	12
13	1.870043E-01	-1.177572E-01	1.931201E-01	7.567208E-02	-8.552063E-03	7.921048E-03	18
19	-9.321869E-02	1.048480E-01	-4.541604E-04	-2.188258E-02	4.523416E-01	-1.970481E-01	24
25	3.081165E-03	4.189383E-01	1.632897E-01	-5.814998E-02	-2.883247E-02	8.385741E-02	30
31	-5.661591E-04	3.251957E-03	-3.155685E-03	-1.131898E-03	1.074675E-02	-1.415130E-03	36
37	-4.133116E-05	2.848731E-03	4.408708E-03	-4.594705E-04	1.159315E-02	2.635447E-04	42
43	-4.566124E-02	9.032819E-02	-1.258067E-01	-2.273743E-02	6.965214E-02	2.713565E-02	48
49	2.511616E-04	-3.011261E-02	1.878791E-03	-2.203382E-04	-3.011163E-02	-1.449418E-03	54
55	9.382988E-03	-5.321413E-03	2.251401E-03	-1.473299E-03	-3.211401E-04	-4.798865E-03	60
61	-9.367277E-04	-2.697045E-03	-4.280923E-04				63

			COLUMN 24				
1	1.208546E-02	7.319061E-02	-3.676802E-02	3.493629E-02	3.841718E-02	2.333860E-02	6
7	5.064581E-02	-1.351180E-01	-1.019743E-01	3.585580E-01	-6.848537E-02	1.852263E-01	12
13	-9.515829E-02	4.836191E-02	-1.618480E-01	-2.425860E-02	-1.156508E-02	-6.428966E-03	18
19	2.360536E-02	-3.658518E-02	-2.538219E-03	-3.612499E-03	-1.970481E-01	2.069854E-01	24
25	-3.485318E-03	-2.031207E-01	-9.243699E-02	1.992315E-02	1.806580E-02	-3.159937E-02	30
31	6.140298E-04	-1.799079E-03	1.895351E-03	6.341847E-04	-4.868037E-03	7.256974E-04	36
37	-3.871485E-04	-1.547555E-03	-2.853891E-03	2.804898E-04	-5.336272E-03	-3.368868E-04	42
43	1.749570E-02	-4.186527E-02	5.959124E-02	8.681058E-03	-3.183519E-02	-1.244699E-02	48
49	-1.359599E-04	1.347360E-02	-8.423501E-04	8.955291E-05	1.347341E-02	6.456647E-04	54
55	-5.268439E-03	2.412108E-03	-6.947813E-04	5.200335E-04	1.388864E-04	2.150237E-03	60
61	4.332965E-04	1.184772E-03	1.686506E-04				63

			COLUMN 25				
1	2.742551E-03	-2.804075E-02	3.325837E-02	5.823364E-03	1.180798E-02	-4.774798E-03	6
7	4.122344E-02	1.151681E-01	8.078428E-02	-3.200636E-02	3.363278E-02	-4.340485E-02	12
13	3.475347E-02	-2.053422E-02	4.642164E-02	-3.392147E-04	-4.113518E-03	1.840924E-03	18
19	5.901139E-02	-4.694509E-02	4.430545E-04	9.197745E-04	3.081165E-03	-3.485318E-03	24
25	1.610080E-01	7.647856E-02	2.435488E-02	-4.049579E-03	7.387363E-03	-9.783842E-03	30
31	-3.664710E-04	3.871227E-04	-3.224019E-04	-2.545867E-04	6.092809E-05	-2.845028E-04	36
37	5.492619E-04	3.871341E-04	7.103862E-04	4.088810E-04	1.935141E-04	3.127313E-04	42
43	9.215555E-03	-1.647575E-02	1.058520E-02	9.894850E-03	-3.385136E-03	2.440875E-03	48
49	5.910267E-06	-2.324827E-03	5.584102E-05	1.330780E-04	-2.325316E-03	-2.578532E-05	54
55	6.254494E-03	1.117451E-03	-1.508573E-03	7.434621E-04	7.075447E-05	2.889611E-04	60
61	-2.537748E-05	3.150891E-06	5.845829E-05				63

			COLUMN 26				
1	-3.387704E-02	-2.342942E-01	1.318389E-01	-1.017601E-01	-9.766851E-02	-7.513281E-02	6
7	-1.026844E-01	5.879405E-01	5.274620E-01	-8.686931E-01	1.821717E-01	-2.709321E-01	12
13	2.868142E-01	-2.048395E-01	6.622199E-01	6.830111E-02	-2.375950E-04	2.832844E-02	18
19	3.481801E-02	1.093069E-01	3.819940E-02	6.250881E-02	4.189383E-01	-2.031207E-01	24
25	7.647856E-02	8.960417E-01	3.853299E-01	-5.343401E-02	-3.745265E-02	2.624153E-01	30
31	-1.861497E-03	5.620233E-03	-5.720084E-03	-2.895863E-03	1.740973E-02	1.911988E-03	36
37	1.704886E-03	5.243352E-03	9.419029E-03	-8.000422E-04	1.518016E-02	4.151377E-03	42
43	-4.518674E-02	9.685587E-02	-1.591710E-01	-1.169242E-02	9.051649E-02	3.613052E-02	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... MAA

			COLUMN 26				
49	3.832032E-04	-4.583276E-02	2.633044E-03	-5.382865E-05	-4.583276E-02	-2.090102E-03	54
55	2.432806E-02	-5.258280E-03	1.842502E-04	-8.604507E-04	-3.632640E-04	-5.282317E-03	60
61	-1.336295E-03	-3.624107E-03	-4.653394E-04				63

			COLUMN 27				
1	-1.881437E-02	-1.054118E-01	4.995210E-02	-5.580050E-02	-5.687778E-02	-3.859547E-02	6
7	-8.715277E-02	1.864489E-01	2.322572E-01	-5.504834E-01	7.626464E-02	-1.256833E-01	12
13	1.123420E-01	-7.253437E-02	3.310625E-01	2.583839E-02	1.870978E-02	1.307011E-02	18
19	-1.409709E-02	3.849227E-02	2.349509E-02	3.006789E-02	1.632897E-01	-9.243899E-02	24
25	2.435486E-02	3.853289E-01	2.911835E-01	-2.329939E-02	-2.154550E-02	1.229187E-01	30
31	-8.963580E-04	2.617936E-03	-2.748026E-03	-1.266139E-03	7.712533E-03	6.001454E-04	36
37	6.973811E-04	2.412895E-03	4.427432E-03	-8.263556E-04	6.378218E-03	2.538048E-03	42
43	-2.622259E-02	5.400467E-02	-8.033156E-02	-1.254856E-02	4.272738E-02	1.281790E-02	48
49	1.653649E-04	-1.838869E-02	1.098150E-03	-1.213466E-04	-1.838844E-02	-9.003610E-04	54
55	5.871614E-03	-3.014968E-03	1.134338E-03	-9.855318E-04	-2.170013E-04	-2.977440E-03	60
61	-5.560663E-04	-1.544997E-03	-2.386759E-04				63

			COLUMN 28				
1	1.297593E-03	-7.124898E-03	9.951437E-03	1.818505E-03	4.222958E-03	2.708042E-04	6
7	-1.250895E-02	-1.714995E-02	3.658020E-02	1.161285E-01	-1.339584E-02	6.312943E-02	12
13	-5.605862E-03	1.493237E-02	-3.537113E-02	-7.432738E-03	-5.694985E-03	-1.387450E-03	18
19	-1.030311E-02	8.005561E-02	1.287480E-02	1.576338E-02	-5.814988E-02	1.992315E-02	24
25	-4.049579E-03	-5.343401E-02	-2.329939E-02	1.739800E+00	-9.445986E-02	-1.664893E-01	30
31	-3.322603E-04	-6.790981E-05	-4.240337E-05	-4.805071E-04	-1.385588E-03	7.421581E-04	36
37	2.180609E-04	-1.281411E-04	-4.758305E-07	2.835343E-04	-1.021083E-03	-1.348997E-03	42
43	-6.495920E-03	-2.571288E-02	-5.980520E-02	2.968818E-03	-3.458376E-02	-2.446651E-02	48
49	-1.263264E-04	1.689497E-02	-1.180225E-03	2.255115E-05	1.689384E-02	7.536084E-04	54
55	-1.295407E-02	2.899338E-03	2.323458E-05	2.927484E-06	7.488460E-05	2.222527E-03	60
61	5.913835E-04	1.787622E-03	2.725792E-04				63

			COLUMN 29				
1	4.834658E-03	1.949270E-02	-5.777739E-03	1.405869E-02	1.626508E-02	3.680816E-03	6
7	1.884664E-02	-3.050227E-02	-2.879557E-02	2.841286E-02	-2.955055E-02	2.373971E-02	12
13	-1.901274E-02	2.624479E-03	-3.173048E-02	-5.313211E-03	-5.321418E-03	-1.254489E-03	18
19	8.989990E-02	-1.545323E-01	-2.140137E-02	-9.420743E-03	-2.883247E-02	1.806580E-02	24
25	7.387353E-03	-3.745265E-02	-2.154550E-02	-9.445986E-02	1.703635E+00	-4.081882E-03	30
31	5.065259E-05	-4.785835E-04	5.317478E-04	1.576849E-04	-2.103872E-03	-2.378674E-04	36
37	6.981094E-05	-4.038389E-04	-8.032639E-04	1.457801E-04	-2.490118E-03	7.207888E-04	42
43	8.894884E-03	-4.188987E-02	6.066618E-02	1.388983E-02	-2.418399E-02	-1.262510E-02	48
49	-1.244001E-04	5.879375E-03	-5.502298E-04	1.436830E-04	5.879279E-03	3.415158E-04	54
55	1.065825E-04	2.788118E-03	-1.180598E-03	5.109461E-04	1.458282E-04	1.865426E-03	60
61	3.180524E-04	7.767884E-04	1.184268E-04				63

			COLUMN 30				
1	-7.711895E-04	1.607202E-02	-2.322848E-02	1.330667E-02	-2.834327E-02	1.103127E-02	6
7	9.024269E-02	2.445388E-02	-2.584958E-02	-1.882417E-01	2.803366E-02	4.672143E-02	12
13	-2.824752E-02	-5.208752E-02	3.089119E-01	-1.388800E-03	1.984721E-03	1.228237E-02	18

				COLUMN 30			
19	-1.894804E-02	7.873186E-02	1.348138E-01	7.711560E-03	8.385741E-02	-3.159937E-02	24
25	-9.783842E-03	2.624153E-01	1.229187E-01	-1.684893E-01	-4.081882E-03	2.406471E+00	30
31	1.209327E-03	1.214050E-04	-1.860886E-04	-2.411183E-05	8.986334E-03	6.223346E-03	36
37	-5.298656E-04	7.621201E-04	7.586519E-04	-1.180563E-03	2.665334E-03	6.003957E-03	42
43	1.965821E-02	1.090865E-01	7.543970E-02	-1.050158E-02	1.252811E-01	6.677869E-02	48
49	6.019574E-04	-5.729780E-02	3.831783E-03	-6.316815E-05	-5.729647E-02	-2.837018E-03	54
55	4.229262E-02	-1.089224E-02	-3.311184E-04	-9.104952E-04	-5.717144E-04	-9.058644E-03	60
61	-2.118798E-03	-5.899718E-03	-8.833044E-04				63

				COLUMN 31			
1	4.215122E-04	2.555136E-03	-1.478269E-03	1.703411E-03	2.746302E-04	1.273449E-03	6
7	3.003528E-03	-4.105247E-03	-5.003080E-03	5.299331E-03	-3.057580E-04	2.527311E-03	12
13	-1.288759E-03	7.995425E-04	-2.829869E-03	9.314955E-05	-5.620796E-05	-1.083692E-04	18
19	-1.254933E-05	7.017717E-04	-1.888347E-05	-3.478485E-04	-5.661591E-04	6.140298E-04	24
25	-3.864710E-04	-1.861497E-03	-8.963580E-04	-3.322603E-04	5.085259E-05	1.208327E-03	30
31	2.950902E-02	-1.438703E-04	2.265835E-04	9.644938E-03	-1.480043E-04	6.077720E-05	36
37	6.834882E-05	1.628078E-05	1.012416E-05	5.215403E-05	2.742292E-05	3.714295E-05	42
43	4.984248E-04	5.451322E-04	4.950335E-04	1.602030E-04	2.564680E-04	2.483023E-04	48
49	2.814699E-06	-8.337803E-05	7.397065E-06	1.164888E-07	-8.337833E-05	-3.838547E-06	54
55	1.985416E-04	-3.202330E-05	-2.472571E-05	1.554500E-05	1.422985E-06	-8.021389E-06	60
61	-4.823935E-05	-1.223777E-05	-6.111248E-07				63

				COLUMN 32			
1	-2.100718E-04	-1.818321E-03	9.951908E-04	-3.201046E-04	-5.081809E-04	-5.124160E-04	6
7	-1.595731E-03	6.650991E-03	2.061943E-04	-9.899104E-03	1.196507E-03	-4.697401E-03	12
13	1.716385E-03	-1.801763E-03	6.141186E-03	1.178850E-04	1.960540E-04	2.396892E-04	18
19	-5.862930E-04	-1.089294E-04	2.639296E-04	3.699471E-04	3.251957E-03	-1.799079E-03	24
25	3.871227E-04	5.820233E-03	2.817936E-03	-8.790981E-05	-4.785835E-04	1.214050E-04	30
31	-1.438703E-04	1.475460E-02	-1.963031E-03	4.631144E-04	1.207334E-03	-8.658938E-04	36
37	-1.573004E-05	-1.146277E-04	-1.783465E-04	2.547715E-04	-6.337898E-06	-1.740884E-04	42
43	-7.100228E-04	3.092615E-04	-1.464617E-03	-2.819361E-04	3.884185E-04	2.645768E-05	48
49	3.041021E-07	-1.846081E-04	9.320866E-06	-1.370811E-06	-1.846092E-04	-8.674824E-06	54
55	-5.204263E-05	-1.151894E-05	2.578673E-05	-2.041860E-05	-3.555216E-06	-3.207068E-05	60
61	-3.747708E-06	-1.032384E-05	-2.031228E-06				63

				COLUMN 33			
1	3.493367E-04	2.649282E-03	-1.459071E-03	9.377452E-04	6.798924E-04	9.292876E-04	6
7	2.381271E-03	-5.925679E-03	5.257027E-04	1.112630E-02	-1.181544E-03	5.639575E-03	12
13	-1.825859E-03	1.799384E-03	-6.821314E-03	-2.613634E-05	-1.879719E-04	-2.658597E-04	18
19	7.300952E-04	-2.322449E-04	-2.818000E-04	-5.718645E-04	-3.155685E-03	1.895351E-03	24
25	-3.224019E-04	-5.720084E-03	-2.748028E-03	-4.240337E-05	5.317478E-04	-1.860886E-04	30
31	2.265835E-04	-1.963031E-03	1.494582E-02	-4.839163E-04	-1.307611E-03	8.748342E-04	36
37	3.314205E-05	2.204605E-04	2.990929E-04	-2.876479E-04	8.932897E-05	2.396504E-04	42
43	8.354268E-04	-3.583439E-04	1.625205E-03	3.576038E-04	-3.746591E-04	2.937548E-05	48
49	-7.137680E-08	1.612181E-04	-8.094688E-06	2.149952E-06	1.612181E-04	8.189743E-06	54
55	1.140129E-04	1.575501E-05	-3.788110E-05	2.704525E-05	4.435279E-06	3.421755E-05	60
61	3.241851E-06	8.855172E-06	2.255626E-06				63

				COLUMN 34			
1	4.169965E-04	2.137270E-03	-1.117078E-03	1.637941E-03	5.165510E-04	9.539098E-04	6
7	3.396189E-03	-4.450281E-03	-6.388755E-03	3.667880E-03	7.963480E-04	9.862004E-04	12
13	-1.025119E-03	7.615536E-04	-3.415957E-03	5.935031E-05	1.882866E-05	-1.333128E-04	18
19	4.085632E-04	-3.672937E-04	-1.325850E-04	-2.622101E-04	-1.131898E-03	6.341847E-04	24
25	-2.545867E-04	-2.995863E-03	-1.266139E-03	-4.805071E-04	1.576849E-04	-2.411183E-05	30
31	8.644938E-03	4.631144E-04	-4.839163E-04	3.266193E-02	2.525035E-04	-1.806810E-03	36
37	3.763098E-05	-2.862885E-04	-3.437976E-04	3.485206E-04	-3.717388E-04	-4.852388E-04	42
43	9.015788E-04	7.023116E-04	8.717077E-04	2.744062E-04	2.584248E-04	3.196663E-04	48
49	4.275855E-06	-2.653617E-05	6.033880E-06	-1.235866E-07	-2.654124E-05	-1.358984E-06	54
55	2.645733E-04	-4.497758E-05	-4.135360E-05	2.745989E-05	2.989507E-06	-3.005375E-07	60
61	-5.085040E-06	-1.104216E-05	4.749839E-07				63

				COLUMN 35			
1	-5.876627E-04	-3.090759E-03	1.133372E-03	-1.232600E-03	-2.305032E-03	-4.628082E-04	6
7	-2.071539E-03	1.144605E-02	1.473286E-03	-1.914814E-02	3.267766E-03	-9.585130E-03	12
13	2.954334E-03	-3.888607E-03	1.657459E-02	5.067611E-04	5.482849E-04	6.516868E-04	18
19	-2.655462E-03	6.095828E-03	1.297196E-03	9.357781E-04	1.074675E-02	-4.886037E-03	24
25	6.092809E-05	1.740973E-02	7.712533E-03	-1.395598E-03	-2.103972E-03	8.966334E-03	30
31	-1.480043E-04	1.207334E-03	-1.307611E-03	2.526035E-04	1.870422E-02	-5.161986E-03	36
37	-4.697873E-05	-1.642946E-05	-3.082938E-05	2.864633E-04	4.075020E-04	-2.250358E-04	42
43	-1.529635E-03	4.380773E-03	-5.199747E-03	-8.332804E-04	3.101789E-03	1.089107E-03	48
49	1.347188E-05	-1.278383E-03	7.956141E-05	-9.540797E-06	-1.278362E-03	-6.302026E-05	54
55	4.926320E-04	-2.420102E-04	7.110028E-05	-6.603850E-05	-1.392796E-05	-2.091186E-04	60
61	-4.118361E-05	-1.140636E-04	-1.689201E-05				63

				COLUMN 36			
1	-5.886237E-05	-1.703019E-04	5.010435E-05	-1.874511E-04	-5.398862E-04	-9.765196E-06	6
7	3.956642E-04	-1.516798E-03	3.682167E-03	4.790051E-03	-2.223843E-03	5.459587E-03	12
13	-7.731391E-04	9.946062E-05	2.304356E-03	-3.042234E-04	-3.816302E-04	8.238138E-05	18
19	1.295393E-03	5.645207E-03	5.003694E-04	6.707889E-04	-1.415130E-03	7.258974E-04	24
25	-2.845026E-04	1.911888E-03	6.001454E-04	7.421591E-04	-2.379674E-04	6.223346E-03	30
31	8.077720E-05	-8.658938E-04	8.748342E-04	-1.908910E-03	-5.161986E-03	2.093331E-02	36
37	3.061419E-05	1.917382E-04	2.534515E-04	-4.931981E-04	3.025358E-04	9.221396E-04	42
43	5.184066E-06	3.131278E-04	1.901353E-04	8.354377E-05	5.284840E-05	-3.393477E-05	48
49	4.567635E-07	-7.658647E-05	3.480028E-06	-3.481712E-09	-7.657764E-05	-4.415417E-06	54
55	5.847117E-05	-1.515201E-05	5.372438E-06	-4.464590E-06	-6.894734E-07	-1.005631E-05	60
61	-2.371986E-06	-8.533186E-06	-1.930752E-06				63

				COLUMN 37			
1	-1.590484E-04	-1.909407E-03	1.424944E-03	-6.247610E-04	1.486248E-04	-1.071881E-03	6
7	4.332683E-04	3.294392E-03	2.601861E-03	-4.324524E-03	1.238189E-03	-1.854145E-03	12
13	1.175990E-03	-6.142091E-04	2.383486E-03	-1.079321E-04	4.680648E-05	9.280219E-05	18
19	1.574468E-03	-9.123712E-04	4.864377E-05	5.079524E-04	-4.133118E-05	-3.871485E-04	24
25	5.492619E-04	1.704888E-03	6.973611E-04	2.180609E-04	6.981094E-05	-5.298656E-04	30
31	8.834882E-05	-1.573004E-05	3.314205E-05	3.763098E-05	-4.897873E-05	3.061419E-05	36
37	2.941511E-02	1.348767E-04	2.116180E-04	9.583613E-03	1.533845E-04	5.254265E-05	42
43	1.288638E-04	-6.236765E-04	2.184491E-04	2.040445E-04	-1.927316E-04	-1.838762E-05	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... MAA

			COLUMN 37				
49	-9.696441E-07	-5.000892E-06	-2.101389E-06	2.810706E-06	-5.006998E-06	1.676999E-06	54
55	8.278779E-05	3.576717E-05	-2.667058E-05	1.365791E-05	2.007360E-06	1.455795E-05	60
61	1.624580E-06	4.458989E-06	1.445035E-06				63
			COLUMN 38				
1	-1.343924E-04	-1.263563E-03	6.566237E-04	-1.146288E-04	-3.249706E-04	-2.316115E-04	6
7	-1.490415E-03	6.127605E-03	2.086835E-03	-8.629445E-03	9.936332E-04	-3.618788E-03	12
13	1.274994E-03	-1.442455E-03	5.732856E-03	8.003425E-05	1.555271E-04	2.239116E-04	18
19	-2.591199E-04	-1.721018E-04	3.868611E-04	2.868181E-04	2.848731E-03	-1.547555E-03	24
25	3.871341E-04	5.243352E-03	2.412695E-03	-1.281411E-04	-4.038369E-04	7.821201E-04	30
31	1.628078E-05	-1.146277E-04	2.204605E-04	-2.862685E-04	-1.842946E-05	1.917382E-04	36
37	1.349767E-04	1.473290E-02	1.972530E-03	-4.954178E-04	1.186766E-03	8.798244E-04	42
43	-5.052201E-04	2.865478E-04	-1.152816E-03	-1.832407E-04	3.814139E-04	5.025070E-05	48
49	4.883473E-07	-1.873777E-04	9.311510E-06	-9.253670E-07	-1.873764E-04	-8.587897E-06	54
55	5.294573E-06	-9.320345E-06	1.510826E-05	-1.459752E-05	-2.288775E-06	-2.676291E-05	60
61	-3.649752E-06	-1.116908E-05	-1.952666E-06				63
			COLUMN 39				
1	-4.671659E-04	-3.824716E-03	2.168028E-03	-1.151946E-03	-1.248972E-03	-1.249339E-03	6
7	-2.800384E-03	8.001243E-03	8.638878E-03	-1.758844E-02	2.810238E-03	-7.134089E-03	12
13	3.223765E-03	-2.764171E-03	1.081631E-02	1.315393E-04	3.238133E-04	4.217886E-04	18
19	1.242375E-04	4.560172E-04	4.218504E-04	1.146183E-03	4.406708E-03	-2.853881E-03	24
25	7.103862E-04	9.419029E-03	4.427432E-03	-4.758305E-07	-8.032639E-04	7.566519E-04	30
31	1.012418E-05	-1.783465E-04	2.990929E-04	-3.437978E-04	-3.082938E-05	2.534515E-04	36
37	2.116180E-04	1.872530E-03	1.502117E-02	-5.375667E-04	1.365875E-03	8.925271E-04	42
43	-8.090311E-04	6.296149E-04	-2.123926E-03	-2.831089E-04	6.723823E-04	1.265590E-04	48
49	1.586536E-06	-3.224290E-04	1.685358E-05	-1.710765E-06	-3.224291E-04	-1.482608E-05	54
55	3.491714E-05	-2.598818E-05	2.334556E-05	-2.147917E-05	-3.896333E-06	-4.777839E-05	60
61	-7.358002E-06	-2.080936E-05	-3.250126E-06				63
			COLUMN 40				
1	1.657903E-04	-1.429449E-04	5.709821E-04	5.280978E-04	7.021933E-04	-2.110849E-04	6
7	2.594206E-03	1.778480E-03	-1.849296E-03	3.425305E-03	5.011397E-04	-7.850242E-04	12
13	5.625868E-05	2.707019E-04	-1.733248E-03	-1.886111E-04	-2.013695E-04	-6.876996E-05	18
19	2.143112E-03	-1.255293E-04	-3.832615E-04	2.260430E-04	-4.594705E-04	2.804898E-04	24
25	4.098810E-04	-8.000422E-04	-8.263556E-04	2.835343E-04	1.457801E-04	-1.180563E-03	30
31	5.215403E-05	2.547715E-04	-2.876479E-04	3.485206E-04	2.964633E-04	-4.931981E-04	36
37	9.583613E-03	-4.964176E-04	-5.375867E-04	3.262715E-02	-3.112924E-04	-1.921198E-03	42
43	5.172149E-04	-1.100834E-03	9.897584E-04	5.136538E-04	-3.814296E-04	1.281771E-04	48
49	-1.305131E-06	-2.815839E-05	-1.847568E-06	6.435494E-06	-2.816706E-05	3.145821E-06	54
55	2.653881E-04	6.448692E-05	-6.808216E-05	3.957575E-05	5.466751E-06	3.195250E-05	60
61	1.664616E-06	4.182308E-06	2.707715E-06				63
			COLUMN 41				
1	-4.970828E-04	-3.409388E-03	1.613522E-03	-9.081377E-04	-2.141183E-03	-3.795210E-04	6
7	-1.849327E-03	1.198793E-02	4.637012E-03	-1.774400E-02	4.964639E-03	-1.437709E-02	12
13	3.903464E-03	-3.720056E-03	1.267629E-02	5.572120E-04	3.570440E-04	4.944705E-04	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

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			COLUMN 41				
19	-2.492982E-03	6.424625E-03	-7.013318E-05	1.154168E-03	1.159315E-02	-5.336272E-03	24
25	1.935141E-04	1.518016E-02	6.378218E-03	-1.021093E-03	-2.490118E-03	2.665334E-03	30
31	2.742282E-05	-6.337698E-06	8.932687E-05	-3.717368E-04	4.075020E-04	3.025368E-04	36
37	1.533845E-04	1.186786E-03	1.365875E-03	-3.112924E-04	1.965713E-02	5.201846E-03	42
43	-1.189055E-03	4.050984E-03	-5.140470E-03	-5.923310E-04	2.827983E-03	1.257849E-03	48
49	1.360081E-05	-1.180855E-03	7.498998E-05	-7.440763E-06	-1.180642E-03	-5.561392E-05	54
55	5.947608E-04	-2.178145E-04	3.283362E-05	-2.674898E-05	-9.297789E-06	-1.793593E-04	60
61	-3.885846E-05	-1.054117E-04	-1.356291E-05				63
			COLUMN 42				
1	-8.466289E-05	2.747303E-04	-5.246248E-04	-2.333745E-04	8.125863E-05	-8.145731E-05	6
7	-9.981958E-04	1.830641E-03	8.764618E-05	-1.024068E-02	4.448576E-04	2.568591E-03	12
13	-9.406431E-05	-6.827198E-04	6.820802E-03	2.716747E-04	6.919018E-04	2.626186E-04	18
19	2.458187E-04	-6.041374E-03	2.127738E-03	-7.482861E-04	2.635447E-04	-3.368868E-04	24
25	3.127313E-04	4.151377E-03	2.538048E-03	-1.348897E-03	7.207688E-04	6.003857E-03	30
31	3.714285E-05	-1.740884E-04	2.398504E-04	-4.952358E-04	-2.250358E-04	8.221398E-04	36
37	5.254285E-05	8.798244E-04	8.925271E-04	-1.921198E-03	5.201846E-03	2.098702E-02	42
43	-1.653588E-05	2.713587E-04	2.560703E-05	-1.402647E-04	5.754642E-04	-4.264376E-05	48
49	9.173866E-07	-2.094357E-04	1.026459E-05	-1.695715E-06	-2.094267E-04	-1.157632E-05	54
55	4.974846E-05	-1.931320E-05	1.271930E-05	-2.268780E-05	-2.505083E-06	-3.116771E-05	60
61	-3.932061E-06	-1.511989E-05	-3.332386E-06				63
			COLUMN 43				
1	1.369335E-02	3.284036E-02	-8.576148E-04	4.933647E-02	2.488431E-02	1.808271E-02	6
7	1.321718E-01	-4.570474E-02	-7.229146E-02	8.299823E-02	6.971660E-02	5.982849E-03	12
13	-1.438450E-02	1.238722E-02	-4.184017E-02	-6.569641E-03	-1.620899E-03	-1.650894E-03	18
19	1.178881E-01	8.438010E-03	-9.898066E-03	5.469108E-03	-4.586124E-02	1.749570E-02	24
25	8.215585E-03	-4.518874E-02	-2.622259E-02	-6.485920E-03	8.894684E-03	1.965821E-02	30
31	4.984248E-04	-7.100228E-04	8.354268E-04	9.015788E-04	-1.529636E-03	5.184066E-06	36
37	1.298638E-04	-5.052201E-04	-8.090311E-04	5.172149E-04	-1.189055E-03	-1.653588E-05	42
43	1.176486E-01	5.351388E-02	4.154074E-02	5.341736E-02	2.123562E-02	3.483250E-03	48
49	1.268363E-03	1.994898E-02	-6.941080E-04	4.383903E-04	1.993256E-02	5.197888E-04	54
55	3.885724E-02	-2.363320E-03	-1.574492E-02	5.550084E-03	-2.292013E-04	-8.378635E-04	60
61	-4.478631E-04	2.323878E-03	1.248848E-03				63
			COLUMN 44				
1	-7.261807E-03	-1.108110E-02	-9.543109E-03	-1.938698E-02	-3.129994E-02	3.712522E-03	6
7	-8.233329E-03	1.258155E-02	-1.172253E-02	-1.326313E-01	8.571282E-02	-9.400140E-02	12
13	1.535501E-02	-2.264304E-02	9.607347E-02	1.026318E-02	1.023217E-02	3.788723E-03	18
19	-9.946274E-02	2.455705E-01	-6.738278E-04	2.164315E-03	9.032819E-02	-4.188527E-02	24
25	-1.847575E-02	9.885587E-02	5.400467E-02	-2.571258E-02	-4.188967E-02	1.080965E-01	30
31	5.451322E-04	3.092615E-04	-3.593439E-04	7.023116E-04	4.360773E-03	3.131278E-04	36
37	-6.236785E-04	2.885478E-04	6.298149E-04	-1.100834E-03	4.050984E-03	2.713587E-04	42
43	5.351388E-02	3.086681E-01	-6.857180E-02	-2.504892E-02	9.061147E-02	1.981284E-02	48
49	1.259491E-03	1.458217E-02	3.647123E-04	-1.267430E-03	1.467987E-02	-5.995619E-05	54
55	1.078573E-03	-2.003855E-02	1.988582E-03	-9.891758E-04	-3.031064E-04	-4.063726E-03	60
61	-9.722855E-04	-1.271774E-03	1.902970E-05				63

			COLUMN 45			
1	1.868018E-02	6.399033E-02	-1.543471E-02	6.251591E-02	4.873991E-02	1.875238E-02	6
7	1.422620E-01	-1.095323E-01	-1.214391E-01	2.367443E-01	-2.170578E-02	1.105803E-01	12
13	-5.003859E-02	3.507518E-02	-1.499955E-01	-1.317343E-02	-1.136704E-02	-5.899745E-03	18
19	8.298205E-02	-1.205784E-01	1.278885E-02	-6.883351E-03	-1.258067E-01	5.959124E-02	24
25	1.056520E-02	-1.591710E-01	-8.033156E-02	-5.980520E-02	6.068616E-02	7.543970E-02	30
31	4.950335E-04	-1.484617E-03	1.625205E-03	8.717077E-04	-5.199747E-03	1.901353E-04	36
37	2.184491E-04	-1.152818E-03	-2.123826E-03	9.897584E-04	-5.140470E-03	2.580703E-05	42
43	4.154074E-02	-6.857180E-02	4.254871E-01	7.746338E-03	-4.891944E-02	8.833168E-02	48
49	4.392431E-05	2.009794E-02	-7.217089E-04	6.900850E-04	2.009162E-02	2.503619E-03	54
55	2.975010E-02	1.246351E-02	-1.812165E-02	7.925373E-03	1.087921E-03	7.295453E-03	60
61	9.421360E-04	3.808014E-03	1.378578E-03				63

			COLUMN 46			
1	8.341331E-03	1.443094E-02	4.785891E-03	3.033969E-02	1.616803E-02	8.364712E-03	6
7	7.665252E-02	-7.439850E-03	-2.841391E-02	4.186166E-02	3.316316E-02	1.155341E-03	12
13	-3.328356E-03	5.761955E-03	-1.780186E-02	-4.361411E-03	-1.789398E-03	-7.087007E-04	18
19	1.130454E-01	-1.993383E-02	-5.614771E-03	5.562039E-03	-2.273743E-02	8.681058E-02	24
25	9.894850E-03	-1.168242E-02	-1.254958E-02	2.968818E-03	1.388983E-02	-1.050156E-02	30
31	1.602030E-04	-2.819361E-04	3.576036E-04	2.744062E-04	-8.332804E-04	8.354377E-05	36
37	2.040445E-04	-1.832407E-04	-2.831089E-04	5.136538E-04	-5.923310E-04	-1.402647E-04	42
43	5.341736E-02	-2.504892E-02	7.746338E-03	1.322498E-01	-1.669366E-02	6.973874E-03	48
49	1.799073E-03	-5.420938E-03	1.627936E-04	1.980552E-03	-5.455919E-03	6.451775E-05	54
55	4.457175E-02	9.378837E-03	-5.123058E-03	4.305953E-02	5.625571E-05	-2.548035E-03	60
61	-4.954940E-03	7.490746E-03	6.444202E-03				63

			COLUMN 47			
1	-3.331011E-03	-1.178509E-02	1.212202E-03	-6.769779E-03	-1.602558E-02	-2.160318E-04	6
7	1.549245E-02	3.845368E-02	-9.420403E-04	-1.136729E-01	5.500237E-02	-7.747821E-02	12
13	1.595953E-02	-1.960479E-02	8.193463E-02	6.026555E-03	6.598944E-03	3.223047E-03	18
19	-5.936708E-02	3.888389E-02	1.251732E-02	3.181278E-03	6.965214E-02	-3.183519E-02	24
25	-3.365135E-03	9.051649E-02	4.272738E-02	-3.456376E-02	-2.418399E-02	1.252811E-01	30
31	2.564690E-04	3.884185E-04	-3.746591E-04	2.584248E-04	3.101769E-03	5.284840E-05	36
37	-1.827318E-04	3.814139E-04	6.723823E-04	-3.814296E-04	2.827963E-03	5.754642E-04	42
43	2.123562E-02	9.061147E-02	-4.891844E-02	-1.669366E-02	1.701347E-01	3.419651E-02	48
49	2.305963E-04	-2.534856E-02	4.860009E-03	-1.320820E-04	-2.536223E-02	-4.353297E-03	54
55	2.186171E-02	-1.418768E-02	2.115776E-02	-8.089443E-03	-1.805047E-03	-1.391083E-02	60
61	-8.974647E-04	-1.394351E-02	-5.265689E-03				63

			COLUMN 48			
1	2.596970E-03	3.238143E-03	1.240962E-03	1.342474E-02	-3.316405E-06	4.020725E-03	6
7	5.475453E-02	1.297913E-02	-2.677327E-02	-2.613454E-02	4.172224E-02	-4.470294E-02	12
13	5.829638E-03	-6.651577E-03	2.254801E-02	1.219581E-03	1.678243E-03	8.824378E-04	18
19	-3.209098E-02	-1.034879E-02	5.172142E-03	5.013788E-03	2.713565E-02	-1.244699E-02	24
25	2.440875E-03	3.813052E-02	1.281790E-02	-2.446651E-02	-1.262510E-02	6.677869E-02	30
31	2.483023E-04	2.845768E-05	2.937548E-05	3.196663E-04	1.089107E-03	-3.393477E-05	36
37	-1.838762E-05	5.025070E-05	1.265590E-04	1.281771E-04	1.257849E-03	-4.264376E-05	42
43	3.463250E-03	1.981284E-02	8.833166E-02	6.973874E-03	3.419651E-02	2.669198E-01	48

			COLUMN 48			
49	4.693498E-05	-1.777840E-02	6.386748E-03	-6.085389E-05	-1.777414E-02	4.365179E-03	54
55	-1.257653E-03	3.413748E-03	1.736082E-02	4.163789E-02	3.436205E-03	9.354787E-03	60
61	-4.136076E-03	1.285795E-03	4.458814E-03				63

			COLUMN 49			
1	1.439826E-05	1.325349E-05	1.403371E-06	9.586793E-05	-4.037469E-05	4.385573E-05	6
7	4.809806E-04	6.168004E-05	-2.186420E-04	-3.773310E-04	6.593151E-04	-4.513449E-04	12
13	5.976115E-05	-8.470475E-05	3.278185E-04	1.765953E-05	2.670231E-05	1.286780E-05	18
19	3.693116E-04	6.420765E-04	1.153125E-05	5.902335E-05	2.511616E-04	-1.359599E-04	24
25	5.910267E-06	3.832032E-04	1.853649E-04	-1.283264E-04	-1.244001E-04	6.019574E-04	30
31	2.814699E-06	3.041021E-07	-7.137680E-08	4.275885E-06	1.347188E-05	4.567635E-07	36
37	-8.696441E-07	4.883473E-07	1.588538E-06	-1.305131E-06	1.360081E-05	9.173966E-07	42
43	1.268363E-03	1.258491E-03	4.382431E-05	1.789073E-03	2.305963E-04	4.893498E-05	48
49	1.222084E-02	-1.139472E-04	7.648235E-06	-3.395810E-04	-1.219219E-04	-1.084709E-05	54
55	1.416219E-03	-8.746024E-04	-5.203168E-05	8.471982E-05	-1.053672E-05	-1.743750E-04	60
61	-7.481315E-05	-1.051231E-04	8.321271E-07				63

			COLUMN 50			
1	-1.687558E-05	4.524812E-03	-3.171167E-03	-2.786620E-03	3.715639E-03	-7.514698E-05	6
7	-1.940923E-02	-2.459358E-02	8.902397E-04	4.801521E-02	-2.189322E-02	3.487982E-02	12
13	-8.834939E-03	8.348654E-03	-3.840841E-02	-1.805772E-03	-2.336122E-03	-1.429819E-03	18
19	5.645373E-04	1.493210E-02	-7.356934E-03	-2.845837E-03	-3.011261E-02	1.347380E-02	24
25	-2.324827E-03	-4.583276E-02	-1.838669E-02	1.688497E-02	5.478375E-03	-5.729780E-02	30
31	-8.337803E-05	-1.846081E-04	1.812181E-04	-2.853817E-05	-1.278383E-03	-7.658647E-05	36
37	-5.000892E-06	-1.873777E-04	-3.224290E-04	-2.815839E-05	-1.180555E-03	-2.094357E-04	42
43	1.994898E-02	1.468217E-02	2.009794E-02	-5.420938E-03	-2.534856E-02	-1.777840E-02	48
49	-1.139472E-04	8.317012E-02	-3.167878E-03	-6.738940E-05	7.058293E-02	2.877123E-03	54
55	-1.904976E-02	2.291055E-02	-1.340339E-02	3.803781E-03	1.828331E-03	1.307762E-02	60
61	3.510730E-03	8.023922E-03	1.535184E-03				63

			COLUMN 51			
1	-1.125297E-05	-2.237233E-04	1.140222E-04	1.352866E-04	-2.725214E-04	3.172513E-05	6
7	1.270060E-03	1.248042E-03	-3.286632E-04	-2.795319E-03	1.572696E-03	-2.279548E-03	12
13	4.708676E-04	-5.229542E-04	2.128682E-03	1.195810E-04	1.416179E-04	8.351071E-05	18
19	-1.115799E-03	-4.025477E-04	4.381762E-04	1.676987E-04	1.878791E-03	-8.423501E-04	24
25	5.594102E-05	2.633044E-03	1.088150E-03	-1.180225E-03	-5.502298E-04	3.831783E-03	30
31	7.397085E-06	9.320866E-06	-8.084668E-06	6.033880E-06	7.956141E-05	3.480028E-06	36
37	-2.101389E-06	9.311510E-06	1.885358E-05	-1.847568E-06	7.498998E-05	1.028459E-05	42
43	-6.941080E-04	3.647123E-04	-7.217089E-04	1.627936E-04	4.960009E-03	6.386748E-03	48
49	7.846235E-06	-3.167878E-03	1.247920E-02	-4.468740E-06	-3.167598E-03	-5.010599E-04	54
55	7.012673E-04	-8.238472E-04	1.007140E-03	2.003142E-04	-1.433669E-05	-5.041827E-04	60
61	-1.754407E-04	-4.987391E-04	-7.886106E-05				63

			COLUMN 52			
1	7.172897E-05	1.091353E-04	5.272620E-05	2.837343E-04	1.480707E-04	3.967290E-05	6
7	6.551216E-04	8.287372E-06	-2.191421E-04	3.480218E-04	1.309177E-04	9.380515E-05	12
13	-7.027349E-06	6.377255E-05	-2.146610E-04	-3.423832E-05	-2.155956E-05	-8.493764E-06	18

			COLUMN 52				
19	1.260055E-03	-8.592398E-04	1.071459E-05	5.935871E-05	-2.203382E-04	8.955291E-05	24
25	1.330790E-04	-5.382865E-05	-1.213468E-04	2.255115E-05	1.436830E-04	-6.316615E-05	30
31	1.164866E-07	-1.370811E-06	2.149952E-06	-1.235866E-07	-9.540797E-06	-3.481712E-09	36
37	2.810708E-06	-9.253670E-07	-1.710785E-06	6.435494E-06	-7.440783E-06	-1.586715E-06	42
43	4.383903E-04	-1.267430E-03	6.900850E-04	1.980552E-03	-1.320820E-04	-6.065389E-05	48
49	-3.395810E-04	-6.738940E-05	-4.468740E-06	1.219541E-02	-7.502654E-05	-3.751309E-07	54
55	1.287090E-03	9.164785E-04	-5.453404E-04	2.002044E-04	3.575714E-05	2.561100E-04	60
61	5.428227E-05	9.529143E-05	2.164672E-05				63
			COLUMN 53				
1	-1.702057E-05	4.524608E-03	-3.171209E-03	-2.789503E-03	3.715551E-03	-7.516485E-05	6
7	-1.941159E-02	-2.459304E-02	8.911272E-04	4.801481E-02	-2.189582E-02	3.487942E-02	12
13	-8.835080E-03	8.349505E-03	-3.640775E-02	-1.805780E-03	-2.336107E-03	-1.429783E-03	18
19	5.548377E-04	1.493123E-02	-7.358675E-03	-2.846099E-03	-3.011163E-02	1.347341E-02	24
25	-2.325318E-03	-4.583276E-02	-1.838844E-02	1.689384E-02	5.878279E-03	-5.729647E-02	30
31	-8.337833E-05	-1.846092E-04	1.812181E-04	-2.654124E-05	-1.278362E-03	-7.657764E-05	36
37	-5.008995E-06	-1.873764E-04	-3.224291E-04	-2.816706E-05	-1.180642E-03	-2.094267E-04	42
43	1.993255E-02	1.467987E-02	2.009162E-02	-5.455919E-03	-2.536223E-02	-1.777414E-02	48
49	-1.218219E-04	7.058293E-02	-3.167598E-03	-7.502654E-05	8.296299E-02	2.876895E-03	54
55	-1.907125E-02	2.291038E-02	-1.339917E-02	3.601313E-03	1.627823E-03	1.307492E-02	60
61	3.510592E-03	8.023912E-03	1.535117E-03				63
			COLUMN 54				
1	4.171267E-05	2.567059E-04	-1.007576E-04	4.313241E-05	2.544987E-04	1.520228E-05	6
7	-4.747671E-04	-1.056612E-03	-7.877511E-05	2.366425E-03	-9.641201E-04	1.574579E-03	12
13	-3.829609E-04	4.144310E-04	-1.789791E-03	-9.863923E-05	-1.176675E-04	-7.032165E-05	18
19	1.919187E-04	1.748693E-04	-3.702955E-04	-8.912343E-05	-1.449418E-03	6.456647E-04	24
25	-2.579532E-05	-2.080102E-03	-9.003610E-04	7.536084E-04	3.415158E-04	-2.837018E-03	30
31	-3.838547E-06	-8.874824E-06	8.189743E-06	-1.358964E-06	-6.302026E-05	-4.415417E-06	36
37	1.678999E-06	-8.587697E-06	-1.482808E-05	3.145821E-06	-5.561392E-05	-1.157632E-05	42
43	5.197688E-04	-5.995619E-05	2.503619E-03	6.451776E-05	-4.353297E-03	4.365179E-03	48
49	-1.084709E-05	2.877123E-03	-5.010599E-04	-3.751309E-07	2.876895E-03	1.241901E-02	54
55	-1.178460E-03	8.544944E-04	-5.433230E-04	5.601528E-04	1.305302E-04	8.718512E-04	60
61	1.201542E-04	4.404987E-04	1.368962E-04				63
			COLUMN 55				
1	4.701622E-03	6.219883E-03	3.520830E-03	1.965232E-02	5.716583E-03	5.366013E-03	6
7	6.170762E-02	8.968767E-03	-2.290952E-02	-8.323445E-03	4.078927E-02	-2.715283E-02	12
13	3.723196E-03	-2.785361E-03	1.414401E-02	-7.873265E-04	8.406050E-04	5.515987E-04	18
19	5.138888E-02	-1.204359E-02	2.158210E-03	5.347049E-03	9.382988E-03	-5.268439E-03	24
25	6.254494E-03	2.432606E-02	5.871614E-03	-1.295407E-02	1.065825E-04	4.229262E-02	30
31	1.985418E-04	-5.204283E-05	1.140129E-04	2.645733E-04	4.926320E-04	5.647117E-05	36
37	8.278779E-05	5.294573E-06	3.491714E-05	2.653681E-04	5.947608E-04	4.874846E-05	42
43	3.886724E-02	1.078573E-03	2.975010E-02	4.457175E-02	2.186171E-02	-1.257853E-03	48
49	1.418219E-03	-1.904976E-02	7.012673E-04	1.297090E-03	-1.907125E-02	-1.178480E-03	54
55	1.055186E-01	-2.729116E-02	-1.489678E-02	-1.245660E-02	-2.144553E-03	-1.786490E-02	60
61	5.750925E-03	-1.866604E-02	-9.702409E-03				63

			COLUMN 56				
1	4.480724E-04	7.400815E-04	4.418646E-04	1.383189E-03	1.604520E-03	-1.468737E-04	6
7	-7.080878E-06	-1.036275E-03	9.821183E-04	7.126616E-03	-5.512737E-03	6.449083E-03	12
13	-6.743152E-04	1.879583E-03	-5.857207E-03	-4.253437E-04	-3.887254E-04	-2.301048E-04	18
19	9.260970E-03	-1.080833E-02	-8.177148E-04	-8.758838E-05	-5.321413E-03	2.412108E-03	24
25	1.117451E-03	-5.268280E-03	-3.014969E-03	2.899338E-03	2.788118E-03	-1.099224E-02	30
31	-3.202330E-05	-1.151694E-05	1.575501E-05	-4.497758E-05	-2.420102E-04	-1.515201E-05	36
37	3.576717E-05	-9.320345E-06	-2.598818E-05	6.446692E-05	-2.178145E-04	-1.931320E-05	42
43	-2.383320E-03	-2.003655E-02	1.246351E-02	9.378837E-03	-1.418768E-02	3.413748E-03	48
49	-8.748024E-04	2.291055E-02	-8.238472E-04	9.164785E-04	2.281038E-02	8.544944E-04	54
55	-2.729116E-02	9.895638E-02	-5.285752E-02	2.186245E-02	1.053640E-03	2.717086E-02	60
61	-3.159335E-03	2.958866E-02	1.308649E-02				63
			COLUMN 57				
1	-1.076404E-03	-1.847187E-03	-5.219035E-04	-4.310357E-03	-1.791211E-03	-1.005710E-03	6
7	-1.140489E-02	7.415480E-04	4.553870E-03	-3.763190E-03	-5.887716E-03	7.747227E-04	12
13	1.832271E-05	-6.282052E-04	1.898486E-03	3.595881E-04	9.308852E-05	7.511343E-05	18
19	-1.802568E-02	3.040070E-03	4.884988E-04	-9.899499E-04	2.251401E-03	-6.947813E-04	24
25	-1.506573E-03	1.842502E-04	1.134339E-03	2.323458E-05	-1.180598E-03	-3.311184E-04	30
31	-2.472571E-05	2.578673E-05	-3.786110E-05	-4.136360E-05	7.110028E-05	6.372438E-06	36
37	-2.867058E-05	1.510628E-05	2.334556E-05	-6.808216E-05	3.283362E-05	1.271930E-05	42
43	-1.574492E-02	1.968592E-03	-1.812165E-02	-5.123058E-03	2.115778E-02	1.736082E-02	48
49	-5.203168E-05	-1.340339E-02	1.007140E-03	-5.453404E-04	-1.339917E-02	-5.433230E-04	54
55	-1.489678E-02	-5.285752E-02	1.207051E-01	1.409972E-02	6.759115E-03	1.992985E-02	60
61	1.081881E-02	-3.918910E-02	-1.854861E-02				63
			COLUMN 58				
1	6.328131E-04	1.177877E-03	2.460838E-04	2.463899E-03	1.118832E-03	6.297192E-04	6
7	6.598338E-03	-7.988873E-04	-2.932844E-03	3.248886E-03	3.112236E-03	-4.746056E-04	12
13	-1.971701E-04	4.380424E-04	-1.751358E-03	-2.588755E-04	-1.239252E-04	-6.930861E-05	18
19	6.061511E-03	-1.593816E-03	-5.518580E-04	5.391488E-04	-1.473289E-03	5.200335E-04	24
25	7.434621E-04	-8.604607E-04	-9.855318E-04	2.827484E-05	5.109461E-04	-9.104852E-04	30
31	1.554500E-05	-2.041880E-05	2.704525E-05	2.745989E-05	-5.803850E-05	-4.464590E-06	36
37	1.385791E-05	-1.459752E-05	-2.147917E-05	3.957575E-05	-2.674898E-05	-2.268780E-05	42
43	5.850084E-03	-9.991756E-04	7.925373E-03	4.305953E-02	-8.089443E-03	4.163789E-02	48
49	8.471982E-05	3.803781E-03	2.003142E-04	2.002044E-04	3.601313E-03	6.601528E-04	54
55	-1.245660E-02	2.186245E-02	1.409972E-02	1.080063E-01	1.981058E-03	2.129088E-03	60
61	9.514219E-03	1.724928E-02	1.276640E-02				63
			COLUMN 59				
1	8.545159E-05	1.708983E-04	3.505911E-05	2.837230E-04	1.888446E-04	9.155251E-05	6
7	6.404293E-04	-1.617010E-04	-2.718436E-04	6.641965E-04	8.778862E-05	1.498173E-04	12
13	-6.345438E-05	1.094219E-04	-3.846057E-04	-4.881773E-05	-2.218957E-05	-1.515936E-05	18
19	2.857879E-04	-1.762604E-04	-1.374364E-04	2.283601E-05	-3.211401E-04	1.388884E-04	24
25	7.075447E-05	-3.632640E-04	-2.170013E-04	7.488460E-04	1.458282E-04	-5.717144E-04	30
31	1.422985E-06	-3.555218E-06	4.435279E-06	2.989507E-06	-1.392798E-05	-6.894734E-07	36
37	2.007360E-06	-2.288775E-06	-3.898333E-06	5.486751E-06	-9.297799E-06	-2.505093E-06	42
43	-2.292013E-04	-3.031064E-04	1.087921E-03	5.625571E-05	-1.805047E-03	3.438205E-03	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX .. MAA

			COLUMN 59			
49	-1.053672E-05	1.628331E-03	-1.433669E-05	3.575714E-05	1.627823E-03	1.305302E-04	54
55	-2.144553E-03	1.053640E-03	6.759115E-03	1.981058E-03	2.635535E-02	2.794921E-02	60
61	8.425412E-03	2.941578E-03	3.987528E-03				63

			COLUMN 60			
1	4.197406E-04	1.178903E-03	-2.228798E-05	1.114213E-03	1.379507E-03	3.238162E-04	6
7	7.841935E-04	-2.824498E-03	-7.150746E-04	8.058993E-03	-2.705443E-03	4.768728E-03	12
13	-1.119304E-03	1.440300E-03	-5.642955E-03	-4.339129E-04	-3.726581E-04	-2.218878E-04	18
19	2.854488E-03	-1.815862E-03	-1.274920E-03	-1.834404E-04	-4.798665E-03	2.150237E-03	24
25	2.889611E-04	-6.282317E-03	-2.977440E-03	2.222527E-03	1.665426E-03	-9.058644E-03	30
31	-8.021389E-06	-3.207066E-05	3.421755E-05	-3.005375E-07	-2.081186E-04	-1.005631E-05	36
37	1.455795E-05	-2.676291E-05	-4.777839E-05	3.195250E-05	-1.783593E-04	-3.115771E-05	42
43	-8.378635E-04	-4.063726E-03	7.295453E-03	-2.548035E-03	-1.381083E-02	9.354787E-03	48
49	-1.743750E-04	1.307762E-02	-5.041627E-04	2.561100E-04	1.307492E-02	8.718512E-04	54
55	-1.786480E-02	2.717086E-02	1.892985E-02	2.129088E-03	2.794921E-02	2.119200E-01	60
61	1.669005E-03	-6.224317E-03	2.279433E-02				63

			COLUMN 61			
1	-1.773484E-06	8.614872E-05	-4.481631E-05	-1.101124E-04	1.395633E-04	-3.609900E-05	6
7	-8.466193E-04	-5.468518E-04	3.007463E-04	1.365808E-03	-1.108744E-03	1.253322E-03	12
13	-2.167402E-04	2.831868E-04	-1.092240E-03	-5.500888E-05	-6.814215E-05	-4.285564E-05	18
19	1.033643E-04	-2.076448E-04	-2.210835E-04	-1.140768E-04	-9.367277E-04	4.332965E-04	24
25	-2.537748E-05	-1.336285E-03	-5.560663E-04	5.913635E-04	3.180524E-04	-2.118796E-03	30
31	-4.823935E-06	-3.747708E-06	3.241851E-06	-5.085040E-06	-4.118361E-05	-2.371966E-06	36
37	1.624580E-06	-3.649752E-06	-7.358002E-06	1.664616E-06	-3.885846E-05	-3.932061E-06	42
43	-4.478631E-04	-9.722955E-04	9.421360E-04	-4.954940E-03	-8.974647E-04	-4.136076E-03	48
49	-7.481315E-05	3.510730E-03	-1.754407E-04	5.428227E-05	3.510592E-03	1.201542E-04	54
55	5.750925E-03	-3.159335E-03	1.081881E-02	9.514219E-03	8.425412E-03	1.889005E-03	60
61	4.353014E-02	-1.911764E-02	-9.085923E-03				63

			COLUMN 62			
1	9.859406E-06	2.716265E-04	-1.483722E-04	-1.451355E-04	3.478709E-04	-1.007628E-04	6
7	-1.744601E-03	-1.696530E-03	5.029782E-04	3.771887E-03	-2.228886E-03	3.300540E-03	12
13	-5.809375E-04	7.668583E-04	-3.095995E-03	-1.415864E-04	-1.878581E-04	-1.214931E-04	18
19	1.880826E-03	6.428690E-05	-6.709235E-04	-1.885102E-04	-2.697045E-03	1.184772E-03	24
25	3.150891E-06	-3.624107E-03	-1.544997E-03	1.787622E-03	7.767884E-04	-5.899718E-03	30
31	-1.223777E-05	-1.032384E-05	8.855172E-06	-1.104216E-05	-1.140636E-04	-8.533185E-06	36
37	4.456989E-06	-1.116908E-05	-2.080936E-05	4.182308E-06	-1.054117E-04	-1.511989E-05	42
43	2.323876E-03	-1.271774E-03	3.808014E-03	7.490746E-03	-1.394351E-02	1.285795E-03	48
49	-1.051231E-04	8.023922E-03	-4.987391E-04	9.529143E-05	8.023912E-03	4.404987E-04	54
55	-1.886604E-02	2.858866E-02	-3.918910E-02	1.724928E-02	2.941578E-03	-6.224317E-03	60
61	-1.911764E-02	1.854348E-01	7.158409E-03				63

			COLUMN 63			
1	3.837750E-05	9.696084E-05	-3.493303E-06	1.444678E-04	9.530765E-05	2.028524E-05	6
7	2.303055E-04	-2.649135E-04	-1.240044E-04	6.041464E-04	2.528618E-05	3.629170E-04	12
13	-6.536462E-05	1.191926E-04	-4.789749E-04	-2.644167E-05	-2.592425E-05	-1.881421E-05	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... MAA

			COLUMN 63			
19	8.844660E-04	5.874622E-05	-1.408914E-04	2.727406E-05	-4.280923E-04	1.685506E-04	24
25	5.845829E-05	-4.853394E-04	-2.366758E-04	2.725782E-04	1.164268E-04	-8.833044E-04	30
31	-6.111248E-07	-2.031228E-06	2.255626E-06	4.749839E-07	-1.689201E-05	-1.930752E-06	36
37	1.445035E-06	-1.952666E-06	-3.250126E-06	2.707715E-06	-1.356291E-05	-3.332386E-06	42
43	1.248848E-03	1.902970E-05	1.378576E-03	5.444202E-03	-5.265689E-03	4.458814E-03	48
49	8.321271E-07	1.535184E-03	-7.896106E-05	2.164872E-05	1.535117E-03	1.366962E-04	54
55	-9.702409E-03	1.306849E-02	-1.854861E-02	1.276640E-02	3.987528E-03	2.279433E-02	60
61	-9.065923E-03	7.158409E-03	3.833924E-02				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

				COLUMN 1			
1	2.205376E+05	1.364769E+04	1.324322E+04	-1.687175E+05	-2.311843E+04	-1.868858E+04	6
7	-3.152227E+04	7.184660E+03	3.805054E+03	1.015174E+03	-5.547713E+03	2.730839E+03	12
13	-2.324108E+03	1.437778E+02	-6.220118E+02	1.249835E+02	-1.313822E+01	-2.262037E+01	18
19	-5.847111E+03	4.653513E+02	2.437304E+02	-1.508241E+03	1.798189E+03	-1.244088E+01	24
25	-1.721283E+03	-1.843476E+03	1.431107E+02	-4.876462E+02	-1.514234E+02	4.843353E+02	30
31	-1.507388E-01	-2.252610E+00	9.488345E-01	-5.638498E+00	1.643029E+01	2.866107E+00	36
37	-2.197908E+01	2.171057E+00	-9.252863E+00	-2.682088E+01	-6.143476E-01	2.159884E+01	42
43	-1.419859E+03	5.905620E+02	-1.122861E+03	-9.187125E+02	1.349027E+02	-2.485455E+02	48
49	-1.598592E+00	8.676875E+01	-2.471744E+00	-5.303072E+00	8.675687E+01	3.971649E-01	54
55	-5.283531E+02	-2.718070E+01	9.517247E+01	-5.729064E+01	-1.054804E+01	-4.141152E+01	60
61	1.080873E+00	9.393456E+00	-1.158817E+00				63

				COLUMN 2			
1	1.364769E+04	4.370655E+04	2.768704E+03	2.700249E+04	-7.208588E+04	-2.044725E+03	6
7	-1.916910E+04	2.268955E+04	-4.386230E+02	2.328767E+03	-3.784502E+03	2.248429E+02	12
13	-1.658834E+03	2.637486E+02	7.845953E+02	1.166398E+02	-3.141000E+01	3.218915E+01	18
19	-7.837643E+03	1.095415E+03	2.162464E+02	-1.462243E+03	2.492539E+03	-3.995929E+02	24
25	-2.169639E+03	-1.650443E+03	4.802780E+02	-5.406864E+02	-3.400751E+02	5.315105E+02	30
31	-1.561246E+01	3.751638E+00	-1.441867E+01	-1.629052E+01	3.509102E+01	2.476582E+00	36
37	-2.123991E+01	1.046793E+01	2.095044E+00	-3.424660E+01	1.653567E+01	2.586243E+01	42
43	-1.980981E+03	1.082478E+03	-1.916634E+03	-1.288927E+03	2.937432E+02	-3.226380E+02	48
49	-1.629110E+00	9.102444E+01	-1.459491E+00	-7.883459E+00	9.100808E+01	-1.115751E+00	54
55	-7.215700E+02	-4.648212E+01	1.338605E+02	-8.123988E+01	-1.489620E+01	-6.290474E+01	60
61	5.139922E-01	1.028533E+01	-1.957112E+00				63

				COLUMN 3			
1	1.324322E+04	2.768704E+03	1.770536E+04	1.558190E+04	-1.000607E+03	-2.709413E+04	6
7	-1.654707E+04	-2.925235E+03	6.553607E+03	6.047014E+02	-3.795874E+03	3.178182E+03	12
13	-2.007148E+03	1.384467E+02	-8.024431E+02	1.015445E+02	-1.027765E+01	-2.994924E+01	18
19	-3.017413E+03	2.488518E+02	1.875800E+02	-9.219019E+02	8.370872E+02	1.342582E+02	24
25	-9.519923E+02	-1.070247E+03	4.082889E+01	-3.252698E+02	-5.486540E+01	6.185486E+02	30
31	1.451787E+01	-3.118193E+00	9.854053E+00	6.057017E+00	8.799867E+00	3.723932E+00	36
37	-1.988330E+01	-2.533769E+00	-1.080136E+01	-1.878299E+01	-3.703569E+00	1.325526E+01	42
43	-6.404031E+02	3.301817E+02	-4.277288E+02	-4.327821E+02	8.842166E+01	-1.008258E+02	48
49	-6.050299E-01	3.637503E+01	-7.351047E-01	-2.547646E+00	3.636960E+01	-4.121035E-02	54
55	-2.394987E+02	-1.442986E+01	4.343528E+01	-2.644591E+01	-4.877562E+00	-1.996583E+01	60
61	3.148279E-01	3.821419E+00	-5.805580E-01				63

				COLUMN 4			
1	-1.687175E+05	2.700249E+04	1.558190E+04	5.421865E+05	-1.879581E+04	1.595999E+04	6
7	-2.585837E+05	-1.229975E+04	-4.095010E+04	8.647887E+02	-3.598306E+04	1.720588E+04	12
13	-1.274092E+04	1.768243E+02	-4.955920E+03	6.513124E+02	-1.061344E+01	-1.850248E+02	18
19	-3.044204E+04	1.132830E+03	1.377921E+03	-8.904308E+03	9.670706E+03	3.900974E+02	24
25	-9.028949E+03	-1.080222E+04	3.609545E+02	-2.572248E+03	-5.057075E+02	1.628676E+03	30
31	-8.129247E+00	-2.225905E+01	6.790641E+00	-3.234048E+01	5.884551E+01	1.720021E+01	36
37	-1.069841E+02	-2.178875E-01	-4.844040E+01	-1.382582E+02	-2.605703E+01	1.054029E+02	42
43	-7.624378E+03	2.203630E+03	-6.342252E+03	-4.785715E+03	3.380848E+02	-1.435382E+03	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

				COLUMN 4			
49	-1.057958E+01	5.510211E+02	-1.990444E+01	-2.633434E+01	5.509575E+02	7.341706E+00	54
55	-2.850897E+03	-1.132902E+02	5.021879E+02	-2.994723E+02	-5.526183E+01	-2.020752E+02	60
61	9.062189E+00	5.910877E+01	-5.056232E+00				63

				COLUMN 5			
1	-2.311843E+04	-7.208588E+04	-1.000807E+03	-1.879591E+04	1.894750E+05	-8.852014E+02	6
7	4.838248E+04	-1.052122E+05	2.815510E+03	3.056257E+03	2.154002E+03	-1.348498E+03	12
13	-1.717348E+02	-8.767612E+01	1.281962E+03	2.870036E+01	-1.588038E+00	5.033252E+01	18
19	-4.535408E+03	2.807385E+03	-1.279605E+02	3.861437E+02	7.790605E+02	-5.035719E+02	24
25	-1.678773E+03	-4.338028E+02	5.378797E+02	-1.689379E+02	-6.096392E+02	1.314914E+03	30
31	1.165048E+02	1.315050E+00	3.755674E+01	5.715185E+01	9.172147E+01	3.906683E+01	36
37	-1.456002E+02	5.490084E+00	-4.423482E+01	-9.733224E+01	8.128802E+01	-2.124440E+01	42
43	-1.133843E+03	1.741292E+03	-2.105070E+03	-8.581306E+02	5.872588E+02	-8.028442E+01	48
49	1.458729E+00	-5.569108E+01	6.807577E+00	-6.747508E+00	-5.570018E+01	-6.855976E+00	54
55	-3.739938E+02	-6.310731E+01	8.404624E+01	-5.350046E+01	-9.609312E+00	-5.753132E+01	60
61	-3.547152E+00	-4.668494E+00	-2.447682E+00				63

				COLUMN 6			
1	-1.868858E+04	-2.044725E+03	-2.709413E+04	1.595999E+04	-8.852014E+02	7.934150E+04	6
7	3.080268E+04	7.161500E+03	-5.841579E+04	-2.258488E+03	-1.132827E+04	8.491535E+03	12
13	-5.858725E+03	-1.598935E+01	-3.048407E+03	2.778039E+02	9.511012E+00	-1.154223E+02	18
19	-4.778501E+03	-1.452812E+03	6.262838E+02	-2.618612E+03	1.947188E+03	4.281909E+02	24
25	-1.422364E+03	-2.382808E+03	-5.691189E+01	-7.815870E+02	2.556859E+02	6.274868E+02	30
31	-6.368914E+01	-7.917767E+00	-1.708048E+01	-3.143325E+01	-3.833346E+01	-1.940426E+01	36
37	6.763421E+01	-5.030178E+00	1.077884E+01	2.952718E+01	-6.785976E+01	5.580353E+01	42
43	-8.730944E+02	-3.448200E+02	3.388832E+02	-5.261372E+02	-1.540105E+02	-1.887174E+02	48
49	-2.492489E+00	1.180264E+02	-6.824627E+00	-1.879370E+00	1.180188E+02	4.054829E+00	54
55	-3.487894E+02	6.087285E+00	5.294330E+01	-3.106478E+01	-5.910144E+00	-1.294234E+01	60
61	2.961871E+00	1.210388E+01	9.309383E-02				63

				COLUMN 7			
1	-3.152227E+04	-1.915910E+04	-1.654707E+04	-2.585837E+05	4.838248E+04	3.080268E+04	6
7	5.400764E+05	-1.886310E+04	9.044810E+03	-1.076331E+04	-8.475579E+04	1.678839E+04	12
13	-1.249270E+04	-1.437588E+03	-5.563794E+03	6.715266E+02	1.237256E+02	-2.094801E+02	18
19	-6.954888E+04	-5.180075E+03	1.143115E+03	-2.118625E+04	2.480264E+04	-2.364168E+02	24
25	-1.359812E+04	-1.831852E+04	3.179905E+01	-2.410484E+03	1.170317E+02	-1.548887E+04	30
31	-3.972104E+02	-3.442185E+01	-1.365753E+02	-3.934988E+02	-1.004448E+02	-4.842749E+01	36
37	-1.158885E+02	4.982324E+01	-2.147689E+01	-2.351041E+02	-1.249019E+02	1.424504E+02	42
43	-2.293524E+04	-1.809687E+03	-1.508048E+04	-1.286719E+04	-2.589797E+03	-5.600097E+03	48
49	-4.954195E+01	2.441161E+03	-1.234122E+02	-6.105822E+01	2.440970E+03	6.801888E+01	54
55	-8.791912E+03	-5.704381E+01	1.460063E+03	-8.385049E+02	-1.551334E+02	-4.282581E+02	60
61	5.709007E+01	2.581771E+02	-5.043698E+00				63

				COLUMN 8			
1	7.184680E+03	2.266955E+04	-2.925235E+03	-1.229875E+04	-1.052122E+05	7.181500E+03	6
7	-1.886310E+04	1.519178E+05	-5.458369E+03	-9.071751E+03	1.407091E+04	1.522094E+04	12
13	-1.011136E+03	1.400197E+03	-1.898030E+04	-3.272836E+02	2.807548E+01	-6.271813E+02	18

				COLUMN 8			
19	3.938325E+03	2.912070E+03	-1.788690E+03	1.096511E+04	-3.334645E+04	7.029242E+03	24
25	-9.523588E+03	-3.529009E+04	-8.487294E+03	1.310476E+03	2.265636E+03	1.154950E+03	30
31	1.182392E+02	-2.668494E+02	-2.565318E+01	3.591532E+02	-2.284289E+02	2.089758E+01	36
37	-8.131721E+01	-2.588985E+02	5.957894E+00	-2.792034E+02	-2.088158E+02	-5.720624E+01	42
43	3.743672E+03	1.767854E+03	5.026007E+03	7.365960E+02	-1.319869E+03	-3.326243E+02	48
49	2.923210E+00	1.059358E+03	-4.607108E+01	-2.656655E+00	1.059359E+03	4.105931E+01	54
55	-1.011101E+02	-5.674724E+01	-4.736967E+01	5.379455E+01	9.598642E+00	1.136403E+02	60
61	1.621016E+01	5.058225E+01	8.305831E+00				63

				COLUMN 9			
1	3.805054E+03	-4.386230E+02	6.553607E+03	-4.095010E+04	2.816510E+03	-5.941579E+04	6
7	9.044810E+03	-5.458369E+03	1.118662E+05	-5.108177E+03	4.830126E+03	-5.427222E+04	12
13	-4.896825E+03	-1.240777E+03	-1.326975E+04	-1.241119E+01	7.666159E+01	-5.110008E+02	18
19	1.643996E+04	1.531767E+03	5.448178E+02	-1.811531E+03	1.354548E+04	-4.750253E+03	24
25	-1.881225E+03	-5.528518E+03	-2.101627E+03	-2.256775E+03	-6.584636E+02	6.515682E+03	30
31	1.071971E+02	-5.907694E+01	-2.567900E+02	2.725544E+02	2.672243E+02	1.805237E+02	36
37	9.409448E+00	1.392049E+02	-1.574914E+02	2.376737E+02	3.562212E+01	1.660646E+01	42
43	6.390593E+03	1.039532E+03	6.670576E+03	4.781268E+03	1.873665E+03	2.828432E+03	48
49	2.137731E+01	-1.357411E+03	7.188689E+01	2.414218E+01	-1.357332E+03	-4.204972E+01	54
55	3.692786E+03	1.077225E+01	-5.958313E+02	3.320299E+02	6.103269E+01	1.298784E+02	60
61	-3.112384E+01	-1.289459E+02	-8.260988E-01				63

				COLUMN 10			
1	1.015174E+03	2.328767E+03	6.047014E+02	8.647697E+02	3.056257E+03	-2.258488E+03	6
7	-1.076331E+04	-9.071751E+03	-5.108177E+03	7.609326E+05	-1.689842E+04	-1.378232E+05	12
13	1.242671E+04	-4.397885E+04	1.389672E+05	2.488882E+03	3.064888E+03	5.428283E+03	18
19	8.897248E+03	-7.050337E+04	1.405718E+04	7.918716E+04	-3.515921E+05	1.787247E+04	24
25	-6.801364E+04	-2.943578E+05	-1.293067E+04	-7.788468E+03	-4.377041E+03	-1.372708E+04	30
31	-7.291843E+01	1.365359E+02	-1.270806E+02	8.257979E+01	1.094890E+02	-6.270106E+02	36
37	9.368429E+01	8.768592E+01	2.427083E+02	-2.088674E+02	-7.562939E+01	8.871033E+02	42
43	-1.278446E+03	3.856499E+03	-6.332673E+03	-7.675826E+02	4.218224E+03	1.101170E+03	48
49	1.293170E+01	-1.807188E+03	9.784869E+01	-6.098892E+00	-1.807176E+03	-8.313681E+01	54
55	8.272420E+02	-1.403242E+02	-7.757839E-01	-6.044171E+01	-9.758988E+00	-2.238933E+02	60
61	-4.132349E+01	-1.248522E+02	-1.622920E+01				63

				COLUMN 11			
1	-5.547713E+03	-3.764502E+03	-3.795874E+03	-3.598306E+04	2.154002E+03	-1.132827E+04	6
7	-8.475579E+04	1.407091E+04	4.830126E+03	-1.689842E+04	3.760590E+05	-5.959710E+03	12
13	-1.262590E+04	3.643582E+03	-1.648578E+04	5.454562E+01	-2.588830E+02	-6.394550E+02	18
19	-1.450045E+05	-5.008041E+03	9.142978E+03	-1.029685E+04	2.830836E+04	-1.694926E+03	24
25	-1.504592E+04	-1.168864E+04	2.658177E+02	-1.948141E+04	5.744825E+03	2.355074E+04	30
31	-8.739898E+01	-2.414404E+01	-3.811584E+01	-2.899088E+02	1.922761E+02	6.223143E+02	36
37	-5.257226E+01	2.500584E+01	-4.743513E+01	-4.663686E+00	-2.484999E+02	-4.137049E+01	42
43	-2.689669E+04	-1.569136E+04	4.627311E+03	-1.174589E+04	-4.172874E+03	-3.833361E+03	48
49	-7.170717E+01	1.504670E+03	-9.898722E+01	-2.368691E+01	1.504505E+03	6.413733E+01	54
55	-7.582235E+03	4.265074E+02	1.175579E+03	-6.902445E+02	-1.319619E+02	-3.136071E+02	60
61	6.089610E+01	2.425787E+02	-2.182796E+00				63

				COLUMN 12			
1	2.730639E+03	2.249429E+02	3.178182E+03	1.720588E+04	-1.348499E+03	8.491535E+03	6
7	1.679839E+04	1.522094E+04	-5.427222E+04	-1.378232E+05	-5.959710E+03	5.257517E+05	12
13	-1.955617E+04	-1.391316E+04	-3.984902E+05	-8.112627E+03	1.442249E+02	-1.556973E+04	18
19	-3.424173E+03	-6.023818E+03	3.085104E+02	-4.888783E+03	1.042009E+05	-3.918628E+04	24
25	6.435725E+03	3.708253E+04	1.456704E+04	-6.956389E+03	-7.451529E+03	-3.917898E+04	30
31	-5.705226E-02	6.226700E+01	-4.588559E+01	1.483138E+02	-6.944401E+01	-9.161867E+02	36
37	-9.381305E+01	3.917923E+01	4.467881E+01	4.365281E+01	1.004019E+03	-4.611772E+02	42
43	1.802090E+03	7.659491E+03	-9.194579E+03	1.112583E+03	5.617212E+03	3.393229E+03	48
49	2.949713E+01	-2.437734E+03	1.425709E+02	-1.560218E+00	-2.437688E+03	-1.017225E+02	54
55	2.592372E+03	-2.431575E+02	-2.700441E+02	1.201621E+02	2.309744E+01	-1.717983E+02	60
61	-6.188835E+01	-2.011427E+02	-1.649700E+01				63

				COLUMN 13			
1	-2.324108E+03	-1.858834E+03	-2.007148E+03	-1.274092E+04	-1.717348E+02	-5.658725E+03	6
7	-1.249270E+04	-1.011135E+03	-4.896825E+03	1.242671E+04	-1.262580E+04	-1.955617E+04	12
13	5.854410E+04	-1.225084E+01	2.659680E+04	-3.547224E+03	2.151188E+01	9.970088E+02	18
19	-6.082304E+03	4.600043E+02	4.013504E+02	-1.545813E+03	-3.783686E+03	2.393763E+03	24
25	-2.349070E+03	-6.900170E+03	-1.354343E+03	-4.189415E+02	3.674458E+02	3.120878E+03	30
31	9.833380E+00	-1.749778E+01	1.491784E+01	2.002973E+00	-3.244501E+00	4.030354E+01	36
37	-1.843304E+01	-7.013950E+00	-3.373884E+01	-2.061408E+01	-7.661060E+01	5.281765E+01	42
43	-1.059980E+03	1.142901E+02	1.454205E+02	-7.805054E+02	-1.653086E+02	-3.140859E+02	48
49	-2.528649E+00	2.023761E+02	-9.086029E+00	-3.975069E+00	2.023649E+02	6.020225E+00	54
55	-5.186898E+02	-1.029010E+01	8.149897E+01	-4.727024E+01	-8.835867E+00	-2.114287E+01	60
61	3.988545E+00	1.737829E+01	9.000296E-02				63

				COLUMN 14			
1	1.437778E+02	2.637486E+02	1.384467E+02	1.768243E+02	-8.767612E+01	-1.598836E+01	6
7	-1.437588E+03	1.400197E+03	-1.240777E+03	-4.397885E+04	3.643582E+03	-1.391316E+04	12
13	-1.225084E+01	5.112883E+04	1.287002E+04	3.652876E+02	-4.740040E+03	5.253327E+02	18
19	-1.009106E+03	-6.415345E+03	2.298719E+03	5.071601E+02	-8.582652E+01	-2.538361E+03	24
25	-6.216884E+02	1.207117E+03	3.908825E+03	-1.185327E+03	-1.341867E+03	2.435219E+02	30
31	3.676082E+00	2.362713E+01	-1.655367E+01	1.461859E+01	1.035285E+02	-8.440294E+01	36
37	-2.952163E+00	1.685752E+01	3.388245E+01	-4.159104E+01	5.871838E+01	1.486497E+02	42
43	-2.584155E+02	2.184014E+03	-2.482921E+03	-3.086164E+02	1.433859E+03	3.901754E+02	48
49	5.721808E+00	-5.235499E+02	3.075708E+01	-3.873930E+00	-5.235489E+02	-2.552722E+01	54
55	2.341880E+02	-7.440985E+01	6.858515E+00	-2.086341E+01	-3.299579E+00	-7.435589E+01	60
61	-1.367403E+01	-4.010633E+01	-5.107403E+00				63

				COLUMN 15			
1	-6.220118E+02	7.845953E+02	-8.024431E+02	-4.955920E+03	1.281982E+03	-3.048407E+03	6
7	-5.563794E+03	-1.599030E+04	-1.328975E+04	1.389672E+05	-1.648579E+04	-3.984902E+05	12
13	2.659680E+04	1.267002E+04	1.998382E+06	7.273561E+03	-7.084977E+02	-1.547714E+06	18
19	-7.338326E+03	2.538287E+03	-8.027002E+03	6.163577E+03	-5.581610E+04	2.031954E+04	24
25	-7.770336E+03	-7.994057E+04	-2.705285E+04	3.389888E+02	3.011162E+03	-2.882974E+04	30
31	-4.933127E+01	-8.053588E+01	6.288521E+01	6.815237E+01	-8.210585E+02	-3.374175E+02	36
37	5.811637E+00	-7.448813E+01	-1.208883E+02	1.411384E+02	-2.310542E+01	-7.037867E+02	42
43	1.763871E+03	-5.427798E+03	8.068164E+03	9.174404E+02	-4.218801E+03	-6.404851E+02	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 15				
49	-1.416747E+01	1.772893E+03	-9.452459E+01	9.883355E+00	1.772886E+03	8.530689E+01	54
55	-6.108931E+02	1.799545E+02	-5.158986E+01	9.253778E+01	1.489074E+01	2.467368E+02	60
61	4.158857E+01	1.221287E+02	1.724217E+01				63
			COLUMN 16				
1	1.249835E+02	1.166398E+02	1.015445E+02	6.513124E+02	2.870036E+01	2.778039E+02	6
7	6.715266E+02	-3.272836E+02	-1.241119E+01	2.488882E+03	5.454552E+01	-8.112627E+03	12
13	-3.547224E+03	3.652876E+02	7.273561E+03	1.123039E+03	-2.168048E+01	2.938810E+02	18
19	3.856200E+02	3.815550E+00	-7.220208E+01	2.834566E+02	-1.334542E+03	4.207540E+02	24
25	-2.544136E+01	-1.224958E+03	-4.195176E+02	1.048382E+02	8.544678E+01	6.888109E+01	30
31	-1.303219E+00	-1.332735E+00	-7.977472E-02	-7.977958E-01	-6.283501E+00	4.422726E+00	36
37	1.387279E+00	-5.700253E-01	-1.389363E+00	2.487419E+00	-7.314221E+00	-3.369770E+00	42
43	1.005437E+02	-1.385997E+02	1.965045E+02	6.335198E+01	-8.224811E+01	-1.491446E+01	48
49	-2.135102E-01	2.496084E+01	-1.593280E+00	4.545600E-01	2.496125E+01	1.337458E+00	54
55	1.285977E+01	5.040778E+00	-4.820357E+00	3.695998E+00	6.607788E-01	5.931752E+00	60
61	6.912793E-01	1.743682E+00	3.260565E-01				63
			COLUMN 17				
1	-1.313922E+01	-3.141000E+01	-1.027765E+01	-1.061344E+01	-1.559038E+00	9.511012E+00	6
7	1.237256E+02	2.907548E+01	7.666159E+01	3.084888E+03	-2.585830E+02	7.442249E+02	12
13	2.151186E+01	-4.740040E+03	-7.064977E+02	-2.168048E+01	7.890390E+02	-3.076830E+01	18
19	5.226134E+01	5.002614E+02	-1.362417E+02	-5.386587E+01	2.522403E+02	1.088969E+02	24
25	7.584172E+01	2.144483E+02	-1.838938E+02	6.550312E+01	6.977284E+01	2.446210E+01	30
31	1.038003E-01	-1.364361E+00	1.091840E+00	-9.369990E-01	-4.340392E+00	5.457036E+00	36
37	-1.272947E-01	-9.493248E-01	-2.135128E+00	2.466094E+00	-1.999104E+00	-8.708458E+00	42
43	8.441645E+00	-1.214491E+02	1.235838E+02	1.785159E+01	-7.429281E+01	-1.867516E+01	48
49	-3.049188E-01	2.538402E+01	-1.531826E+00	2.338876E-01	2.538390E+01	1.277825E+00	54
55	-1.052499E+01	4.159454E+00	-5.770346E+01	1.204553E+00	1.951501E-01	3.875951E+00	60
61	6.902118E-01	1.996726E+00	2.596634E-01				63
			COLUMN 18				
1	-2.262037E+01	3.218815E+01	-2.984924E+01	-1.850248E+02	5.033252E+01	-1.154223E+02	6
7	-2.094801E+02	-6.271918E+02	-5.180006E+02	5.428283E+03	-6.394550E+02	-1.558973E+04	12
13	9.970088E+02	5.253327E+02	-1.547714E+06	2.938810E+02	-3.076830E+01	1.565396E+06	18
19	-2.621878E+02	9.564130E+01	-3.134490E+02	2.432829E+02	-2.192139E+03	7.959782E+02	24
25	-3.037581E+02	-3.133344E+03	-1.059035E+03	1.352842E+01	1.176364E+02	-1.128046E+03	30
31	-1.940494E+00	-3.143915E+00	2.446474E+00	2.668492E+00	-3.211395E+01	-1.322399E+01	36
37	2.342609E-01	-2.907835E+00	-4.713156E+00	5.623715E+00	-9.121486E-01	-2.748865E+01	42
43	6.998700E+01	-2.122563E+02	3.158275E+02	3.845275E+01	-1.647837E+02	-2.487268E+01	48
49	-5.520167E-01	6.921175E+01	-3.691122E+00	3.931244E-01	6.921147E+01	3.332204E+00	54
55	-2.350745E+01	7.041591E+00	-2.077605E+00	3.652148E+00	5.885845E-01	9.865309E+00	60
61	1.823824E+00	4.764539E+00	6.743053E-01				63
			COLUMN 19				
1	-5.847111E+03	-7.837643E+03	-3.017413E+03	-3.044204E+04	-4.535408E+03	-4.776501E+03	6
7	-6.954888E+04	3.938325E+03	1.643996E+04	8.897246E+03	-1.450045E+05	-3.424173E+03	12
13	-6.082304E+03	-1.009108E+03	-7.336326E+03	3.956200E+02	5.226134E+01	-2.821878E+02	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 19				
19	5.027611E+05	-3.986833E+03	-1.834870E+04	-1.832403E+04	2.128611E+04	-2.129740E+03	24
25	-1.770186E+04	-2.885128E+04	-2.022428E+03	-6.347787E+04	-3.162670E+03	7.870898E+03	30
31	-6.258541E+01	-1.243704E+00	-3.417790E+01	-8.080331E+01	5.623238E+01	-1.178529E+02	36
37	-1.516318E+02	1.521783E+01	-2.000709E+01	-2.564388E+02	1.382592E+02	3.671544E+01	42
43	-8.179517E+04	5.714742E+03	1.014051E+04	-4.465529E+04	9.310451E+03	5.356158E+03	48
49	-9.797768E+01	3.059037E+02	1.262261E+02	-1.687435E+02	3.054444E+02	-1.304433E+01	54
55	-1.948361E+04	-4.430143E+02	3.323469E+03	-1.869913E+03	-3.864092E+02	-1.723601E+03	60
61	-1.778094E+00	2.036954E+02	-4.848180E+01				63
			COLUMN 20				
1	4.653513E+02	1.095415E+03	2.488518E+02	1.132830E+03	2.807386E+03	-1.452612E+03	6
7	-5.160075E+03	2.912070E+03	1.531767E+03	-7.050337E+04	-5.008041E+03	-6.023818E+03	12
13	4.800043E+02	-6.415345E+03	2.536287E+03	3.815550E+00	5.002614E+02	9.564130E+01	18
19	-3.968633E+03	1.865742E+05	-5.633740E+03	-1.414146E+04	-1.308980E+04	5.142213E+03	24
25	1.296847E+04	-1.548863E+04	-4.767348E+03	3.497409E+03	-3.154570E+04	1.427621E+04	30
31	-8.435788E+01	4.164784E+01	3.900573E+01	-1.074969E+01	-7.459845E+02	-8.525552E+02	36
37	9.257581E+01	4.579718E+01	-4.537875E+01	2.687938E+01	-7.729681E+02	8.851350E+02	42
43	9.127980E+03	-5.295793E+04	-8.214669E+03	-8.909128E+02	2.689801E+03	2.576293E+03	48
49	-6.836733E+01	-3.150666E+03	1.315425E+02	8.376693E+01	-3.150639E+03	-9.843056E+01	54
55	1.439501E+03	1.253727E+03	-3.042838E+02	4.148247E+01	-6.482385E-01	-5.809878E+01	60
61	-1.000446E+01	-8.540480E+01	-1.385940E+01				63
			COLUMN 21				
1	2.437304E+02	2.162464E+02	1.875800E+02	1.377921E+03	-1.279805E+02	6.262838E+02	6
7	1.143115E+03	-1.788890E+03	5.448178E+02	1.405718E+04	9.142976E+03	3.065104E+02	12
13	4.013504E+02	2.298719E+03	-8.027002E+03	-7.220208E+01	1.382417E+02	-3.134490E+02	18
19	-1.834870E+04	-5.633740E+03	2.007464E+05	2.939731E+03	-2.352439E+03	2.917365E+02	24
25	-7.066728E+01	-4.175841E+03	-2.463160E+03	2.586716E+03	-3.539871E+03	-1.775869E+05	30
31	-6.485764E+00	-2.195164E+00	1.935118E+00	-9.369259E+00	-8.566537E+01	-7.628374E+00	36
37	-7.900338E+00	-1.695258E+01	1.036478E+01	4.009013E+01	1.969204E+02	-3.557761E+02	42
43	5.275276E+02	8.724843E+02	-1.428068E+04	4.670218E+02	-1.888624E+03	1.309307E+02	48
49	6.768499E-01	1.048240E+03	-4.670192E+01	-4.387751E+00	1.046234E+03	4.742635E+01	54
55	-4.347312E+02	-4.918808E+01	3.313434E+01	6.771901E+01	1.231184E+01	1.270233E+02	60
61	1.698340E+01	5.278065E+01	8.329841E+00				63
			COLUMN 22				
1	-1.509241E+03	-1.462243E+03	-9.219019E+02	-8.904308E+03	3.861437E+02	-2.618612E+03	6
7	-2.118625E+04	1.096511E+04	-1.911531E+03	7.918716E+04	-1.029885E+04	-4.888783E+03	12
13	-1.545813E+03	5.071601E+02	6.153577E+03	2.634588E+02	-5.386567E+01	2.432829E+02	18
19	-1.632403E+04	-1.414148E+04	2.939731E+03	5.324998E+04	-8.552187E+04	2.867184E+03	24
25	1.603719E+04	1.035904E+04	-7.659513E+02	-2.686147E+03	9.029933E+01	-1.338505E+02	30
31	-7.589834E+00	1.686588E+00	5.444513E+00	-2.903098E+01	-1.086484E+01	-8.462864E+00	36
37	-2.800855E+01	1.813313E+01	-3.167142E+01	-2.886428E+01	-8.579558E+01	1.200625E+02	42
43	-3.581909E+03	-5.979067E+02	-4.927542E+02	-2.040904E+03	-1.652588E+02	-6.811118E+02	48
49	-7.757173E+00	2.445885E+02	-1.195592E+01	-8.261703E+00	2.445389E+02	5.751318E+00	54
55	-1.251287E+03	2.123239E+00	2.084328E+02	-1.272218E+02	-2.378739E+01	-7.536133E+01	60
61	8.574058E+00	3.211380E+01	-1.569274E+00				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 23				
1	1.798169E+03	2.492539E+03	8.370872E+02	9.670706E+03	7.790805E+02	1.947168E+03	6
7	2.480264E+04	-3.334645E+04	1.354549E+04	-3.515921E+05	2.830836E+04	1.042009E+05	12
13	-3.783686E+03	-8.582652E+01	-5.581610E+04	-1.334542E+02	2.522403E+02	-2.192139E+03	18
19	2.129611E+04	-1.308980E+04	-2.352439E+03	-8.552167E+04	4.943157E+05	-5.393315E+04	24
25	-1.142599E+04	-1.013246E+05	-2.308975E+04	6.589508E+03	4.879173E+03	7.673872E+03	30
31	-4.676244E+01	-5.300365E+01	1.228601E+01	6.078624E+01	-4.894674E+02	7.884271E+01	36
37	1.118457E+02	-4.072752E+01	-2.527490E+01	-2.207908E+01	-7.535880E+02	2.502289E+02	42
43	8.910743E+03	-2.086323E+03	9.993925E+03	2.394246E+03	-3.794953E+03	-1.255193E+03	48
49	-4.146842E+00	1.894888E+03	-9.932489E+01	8.579909E+00	1.894996E+03	8.108378E+01	54
55	3.205362E+01	8.140864E+01	-1.482834E+02	1.301452E+02	2.348716E+01	2.733768E+02	60
61	3.857816E+01	1.109553E+02	1.747519E+01				63

			COLUMN 24				
1	-1.244088E+01	-3.995929E+02	1.342582E+02	3.900974E+02	-5.035719E+02	4.281908E+02	6
7	-2.364166E+02	7.029242E+03	-4.760253E+03	1.787247E+04	-1.694926E+03	-3.918629E+04	12
13	2.393763E+03	-2.535361E+03	2.031954E+04	4.207540E+02	1.088969E+02	7.959782E+02	18
19	-2.129740E+03	5.142213E+03	2.917385E+02	2.867184E+03	-5.393315E+04	2.013534E+04	24
25	2.162159E+02	2.682038E+04	8.190591E+03	-1.418119E+03	-1.926284E+03	-3.183869E+03	30
31	1.553109E+01	2.614536E+01	-1.334543E+01	-9.602854E-01	1.594912E+02	-6.706993E+01	36
37	-2.667684E+01	1.518611E+01	3.115417E+01	1.408029E-01	2.720868E+02	-7.376528E+01	42
43	-9.237235E+02	1.815527E+03	-3.649652E+03	-2.420982E+02	1.628643E+03	6.873721E+02	48
49	5.817759E+00	-7.467897E+02	4.108900E+01	-2.253382E+00	-7.467836E+02	-3.227468E+01	54
55	4.006348E+02	-5.983726E+01	-1.107755E+01	-8.853285E+00	-1.218171E+00	-8.155746E+01	60
61	-1.730374E+01	-5.319169E+01	-6.112326E+00				63

			COLUMN 25				
1	-1.721283E+03	-2.169639E+03	-9.519923E+02	-9.028949E+03	-1.878773E+03	-1.422384E+03	6
7	-1.359812E+04	-9.523588E+03	-1.881225E+03	-6.801364E+04	-1.504592E+04	6.435725E+03	12
13	-2.349070E+03	-6.216884E+02	-7.770338E+03	-2.544136E+01	7.584172E+01	-3.037561E+02	18
19	-1.770186E+04	1.295847E+04	-7.086728E+01	1.603719E+04	-1.142599E+04	2.182159E+02	24
25	5.247486E+04	7.797330E+04	2.386498E+03	-1.618233E+03	-1.914627E+02	5.984288E+03	30
31	-9.813303E+00	-2.090031E+01	-1.389115E+01	1.417890E+00	7.034486E+01	5.223120E+01	36
37	-2.725373E+01	-7.719612E+00	-1.070105E+01	-5.889379E+01	2.858105E+00	3.738564E+01	42
43	-3.532164E+03	1.969956E+03	-2.362152E+03	-2.374079E+03	5.603057E+02	-4.409274E+02	48
49	-2.767119E+00	1.701816E+02	-1.715484E+00	-1.407041E+01	1.701526E+02	-1.165355E+00	54
55	-1.270142E+03	-8.441578E+01	2.322774E+02	-1.407857E+02	-2.602979E+01	-1.108228E+02	60
61	7.780497E-01	1.784378E+01	-3.303330E+00				63

			COLUMN 26				
1	-1.843476E+03	-1.660443E+03	-1.070247E+03	-1.080222E+04	-4.338028E+02	-2.392806E+03	6
7	-1.831852E+04	-3.529009E+04	-5.528518E+03	-2.943579E+05	-1.188864E+04	3.708253E+04	12
13	-6.900170E+03	1.207117E+03	-7.994057E+04	-1.224958E+03	2.144483E+02	-3.133344E+03	18
19	-2.885128E+04	-1.548863E+04	-4.175841E+03	1.035804E+04	-1.013245E+05	2.682038E+04	24
25	7.797330E+04	4.439984E+05	4.545706E+04	-1.613437E+03	3.935318E+03	-1.845828E+04	30
31	-9.955743E+01	-8.566686E+01	2.451304E+01	1.184525E+02	-9.670715E+02	-4.308149E+02	36
37	2.662792E+01	-6.231026E+01	-1.017544E+02	-3.880663E+01	-5.048848E+02	-1.730314E+02	42
43	-1.283477E+03	-7.888377E+02	7.538821E+03	-2.772812E+03	-3.908150E+03	-1.958158E+03	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 26				
49	-1.705335E+01	2.725794E+03	-1.269861E+02	-1.683774E+01	2.725735E+03	1.054887E+02	54
55	-2.830902E+03	-8.332161E+00	3.348557E+02	-1.387323E+02	-2.772014E+01	1.108815E+02	60
61	5.291683E+01	1.855057E+02	1.580665E+01				63

			COLUMN 27				
1	1.431107E+02	4.802780E+02	4.082889E+01	3.508545E+02	5.378797E+02	-5.681189E+01	6
7	3.178906E+01	-8.487294E+03	-2.101627E+03	-1.293067E+04	2.658177E+02	1.466704E+04	12
13	-1.354343E+03	3.908825E+03	-2.705265E+04	-4.195176E+02	-1.838838E+02	-1.059035E+03	18
19	-2.022428E+03	-4.767348E+03	-2.463160E+03	-7.859513E+02	-2.308975E+04	8.190591E+03	24
25	2.386498E+03	4.545706E+04	1.642157E+04	3.868445E+02	1.659885E+03	-9.803327E+03	30
31	-2.883792E+01	-3.529354E+01	2.281501E+01	3.448128E+01	-3.736718E+02	-1.400210E+02	36
37	1.430971E+01	-2.832906E+01	-5.100677E+01	3.568985E+01	-1.372306E+02	-1.704526E+02	42
43	1.028479E+03	-2.019808E+03	4.033334E+03	2.733771E+02	-1.936180E+03	-4.848858E+02	48
49	-6.270117E+00	9.150334E+02	-4.759683E+01	2.884846E+00	9.150272E+02	4.118376E+01	54
55	-4.173710E+02	6.514899E+01	-1.899465E+00	2.753153E+01	4.210518E+00	1.074719E+02	60
61	2.032867E+01	6.180714E+01	7.984117E+00				63

			COLUMN 28				
1	-4.876462E+02	-5.406864E+02	-3.252898E+02	-2.572248E+03	-1.689379E+02	-7.815870E+02	6
7	-2.410484E+03	1.310476E+03	-2.256775E+03	-7.789468E+03	-1.948141E+04	-6.956369E+03	12
13	-4.189415E+02	-1.165327E+03	3.369986E+02	1.046382E+02	6.550312E+01	1.352842E+01	18
19	-6.347787E+04	3.497408E+03	2.586716E+03	-2.886147E+03	6.588508E+03	-1.418119E+03	24
25	-1.618233E+03	-1.813437E+03	3.868445E+02	1.032562E+05	-2.058063E+03	-1.976498E+04	30
31	1.175153E+01	-7.281409E-02	2.693610E+00	3.915811E+01	2.347544E+01	-7.312729E+01	36
37	-8.293295E+00	1.544767E+00	-3.956181E+00	-1.925181E+01	3.201022E+01	6.124555E+01	42
43	-6.235985E+03	1.129115E+03	2.616080E+04	-3.848439E+03	4.618078E+03	2.287329E+03	48
49	1.365538E-01	-1.883782E+03	1.121706E+02	-5.204803E+00	-1.883601E+03	-7.942198E+01	54
55	4.340030E+01	-2.369433E+01	5.368843E+01	-1.502748E+02	-3.091169E+01	-3.047028E+02	60
61	-3.816604E+01	-1.080493E+02	-1.755076E+01				63

			COLUMN 29				
1	-1.514234E+02	-3.400751E+02	-5.486840E+01	-5.057075E+02	-6.096392E+02	2.556859E+02	6
7	1.170317E+02	2.285636E+03	-6.584636E+02	-4.377041E+03	5.744825E+03	-7.451529E+03	12
13	3.674456E+02	-1.341967E+03	3.011162E+03	8.544678E+01	6.977284E+01	1.176364E+02	18
19	-3.162670E+03	-3.154570E+04	-3.539871E+03	9.029833E+01	4.878173E+03	-1.826284E+03	24
25	-1.714627E+02	3.935318E+03	1.659885E+03	-2.059063E+03	2.351487E+04	1.534454E+04	30
31	1.769357E+01	2.695827E+00	-2.396370E+00	1.286722E+01	1.390538E+02	2.419710E+00	36
37	-2.257686E+01	-2.292678E+00	5.879257E+00	-1.330640E+01	1.934923E+02	-7.104287E+01	42
43	-2.085727E+02	2.798575E+03	-7.428174E+03	-4.189618E+02	1.841534E+03	8.028081E+02	48
49	8.047072E+00	-6.313845E+02	4.039459E+01	-5.803403E+00	-6.313807E+02	-3.001348E+01	54
55	3.028722E+02	-1.071592E+02	9.823612E+00	-1.125880E+01	-1.595813E+00	-8.573117E+01	60
61	-1.781677E+01	-5.274976E+01	-5.899616E+00				63

			COLUMN 30				
1	4.843353E+02	5.315105E+02	6.185486E+02	1.628676E+03	1.314914E+03	6.274868E+02	6
7	-1.548897E+04	1.154950E+03	8.515682E+03	-1.372708E+04	2.358074E+04	-3.917899E+04	12
13	3.120878E+03	2.435219E+02	-2.882974E+04	6.898109E+01	2.446210E+01	-1.128048E+03	18

			COLUMN 30			
19	7.870896E+03	1.427821E+04	-1.775689E+05	-1.338505E+02	7.673872E+03	-3.183869E+03	24
25	5.984288E+03	-1.845828E+04	-9.803327E+03	-1.978498E+04	1.534454E+04	3.053478E+05	30
31	-1.060800E+02	4.580206E+01	3.731686E+01	3.872408E+01	-1.100480E+03	-1.140159E+03	36
37	1.329435E+00	-2.077021E+01	1.198985E+01	7.458207E+01	2.871598E+02	-6.376769E+02	42
43	-4.084732E+03	-6.812359E+03	-4.976183E+04	1.017758E+03	-1.456726E+04	-3.077863E+03	48
49	-3.498632E+01	6.577294E+03	-3.418085E+02	-8.887209E+00	6.577219E+03	3.009011E+02	54
55	-4.483006E+03	1.718309E+02	4.177391E+02	1.645513E+02	2.858987E+01	7.210681E+02	60
61	1.368398E+02	4.298254E+02	5.586317E+01				63

			COLUMN 31			
1	-1.507388E-01	-1.561246E+01	1.451787E+01	-8.129247E+00	1.165048E+02	-6.366914E+01	6
7	-3.872104E+02	1.192392E+02	1.071971E+02	-7.291843E+01	-8.739898E+01	-5.705226E-02	12
13	9.833380E+00	3.676082E+00	-4.933127E+01	-1.303219E+00	1.038003E-01	-1.940494E+00	18
19	-6.258541E+01	-8.435788E+01	-6.485764E+00	-7.589834E+00	-4.676244E+01	1.553109E+01	24
25	-9.813303E+00	-9.955743E+01	-2.883792E+01	1.176153E+01	1.769357E+01	-1.060800E+02	30
31	5.925515E+04	1.227355E+02	1.858787E+02	-5.838341E+04	-2.072611E+01	-5.205834E+01	36
37	-1.455088E+02	2.050982E+01	-1.003301E+01	-1.081862E+02	-1.135598E+01	2.242983E+00	42
43	-3.206824E+01	-4.676526E+01	6.593703E+00	-1.518240E+01	-2.521091E+01	-1.592274E+01	48
49	-1.802628E-01	1.072280E+01	-6.333953E-01	-1.730163E-02	1.072246E+01	4.521084E-01	54
55	-1.714649E+01	1.322418E+00	2.190416E+00	-1.088838E+00	-2.046707E-01	3.861333E-01	60
61	2.922006E-01	9.894769E-01	6.195174E-02				63

			COLUMN 32			
1	-2.252610E+00	3.751638E+00	-3.118193E+00	-2.225905E+01	1.315050E+00	-7.917767E+00	6
7	-3.442185E+01	-2.666494E+02	-5.907694E+01	1.365359E+02	-2.414404E+01	6.226700E+01	12
13	-1.749779E+01	2.362713E+01	-8.053586E+01	-1.332735E+00	-1.364361E+00	-3.143915E+00	18
19	-1.243704E+00	4.164764E+01	-2.196164E+00	1.686588E+00	-5.300365E+01	2.614536E+01	24
25	-2.090031E+01	-8.566686E+01	-3.529354E+01	-7.281409E-02	2.695827E+00	4.560206E+01	30
31	1.227355E+02	2.514112E+02	1.208002E+02	2.196521E+01	-7.328749E+01	-7.426890E+01	36
37	-2.053885E+01	5.585886E+00	3.712042E+00	-9.076902E+00	2.875979E+00	-2.152045E+00	42
43	5.593991E+00	8.510261E+00	8.855673E+00	1.188045E+00	-4.906710E-03	3.463346E-01	48
49	1.784575E-02	8.305199E-01	-2.287917E-02	-1.026858E-02	8.305326E-01	2.578827E-02	54
55	5.422038E-01	-2.387270E-01	-1.213063E-01	8.951352E-02	1.686832E-02	8.419624E-02	60
61	2.078266E-03	8.717163E-03	5.917205E-03				63

			COLUMN 33			
1	9.488345E-01	-1.441867E+01	9.854053E+00	6.790841E+00	3.755674E+01	-1.708048E+01	6
7	-1.365753E+02	-2.565318E+01	-2.567900E+02	-1.270806E+02	-3.811584E+01	-4.568559E+01	12
13	1.491784E+01	-1.655367E+01	6.286521E+01	-7.977472E-02	1.081840E+00	2.446474E+00	18
19	-3.417790E+01	3.900573E+01	1.935118E+00	5.444513E+00	1.228601E+01	-1.334543E+01	24
25	-1.389115E+01	2.451304E+01	2.281501E+01	2.693810E+00	-2.398370E+00	3.731686E+01	30
31	1.858787E+02	1.208002E+02	2.774733E+02	5.123454E+01	-5.234328E+01	-4.913947E+01	36
37	-1.025762E+01	-4.296401E+00	-1.266815E+01	5.305850E-01	-1.885669E-01	2.799987E+00	42
43	-1.845725E+01	6.385636E+00	-1.828822E+01	-9.942907E+00	1.120358E+00	-4.081652E+00	48
49	-2.096170E-02	5.562722E-01	-2.531989E-02	-5.811436E-02	5.581360E-01	-1.419955E-02	54
55	-6.094983E+00	-2.612911E-01	1.148594E+00	-6.997549E-01	-1.265596E-01	-5.098830E-01	60
61	9.585451E-03	9.808209E-02	-1.704188E-02				63

			COLUMN 34			
1	-5.636498E+00	-1.629052E+01	6.067017E+00	-3.234049E+01	5.715185E+01	-3.143325E+01	6
7	-3.934968E+02	3.591532E+02	2.725544E+02	8.257979E+01	-2.899086E+02	1.483138E+02	12
13	2.002973E+00	1.461859E+01	6.816237E+01	-7.977856E-01	-9.389890E-01	2.666492E+00	18
19	-8.080331E+01	-1.074989E+01	-9.369259E+00	-2.903098E+01	6.078624E+01	-9.802854E-01	24
25	1.417890E+00	1.184525E+02	3.448128E+01	3.915811E+01	1.286722E+01	3.872408E+01	30
31	-5.838341E+04	2.196521E+01	5.123454E+01	5.976486E+04	-4.792879E+02	-6.283764E+02	36
37	-1.082078E+02	9.488888E+00	1.180830E+00	-3.352834E+02	-9.338429E+01	9.942736E+01	42
43	-9.458458E+01	-1.189252E+02	-3.059600E+01	-2.670283E+01	-3.384857E+01	-2.522418E+01	48
49	-3.667071E-01	5.224115E+00	-5.869825E-01	6.959710E-02	5.223803E+00	3.040732E-01	54
55	-2.507985E+01	3.688872E+00	3.688533E+00	-2.128252E+00	-4.003595E-01	-2.875067E-01	60
61	3.344271E-01	1.119884E+00	1.991427E-02				63

			COLUMN 35			
1	1.643029E+01	3.509102E+01	8.799867E+00	5.884551E+01	9.172147E+01	-3.833346E+01	6
7	-1.004448E+02	-2.284289E+02	2.672243E+02	1.094890E+02	1.922761E+02	-6.944401E+01	12
13	-3.244501E+00	1.035285E+02	-8.210585E+02	-6.283501E+00	-4.340392E+00	-3.211395E+01	18
19	5.623239E+01	-7.459845E+02	-8.586537E+01	-1.098494E+01	-4.894674E+02	1.594912E+02	24
25	7.034486E+01	-9.670715E+02	-3.736716E+02	2.347544E+01	1.390538E+02	-1.100480E+03	30
31	-2.072611E+01	-7.328749E+01	-5.234329E+01	-4.792879E+02	2.230661E+03	1.894792E+03	36
37	1.184479E+01	3.172017E+00	-4.851480E-01	9.453221E+01	8.622358E+00	-1.278387E+01	42
43	9.422522E+01	-2.118072E+02	2.898497E+02	2.863408E+01	-1.510584E+02	-4.177259E+01	48
49	-5.457278E-01	6.921797E+01	-3.897708E+00	3.079569E-01	6.921756E+01	3.141691E+00	54
55	-2.963829E+01	6.317382E+00	-6.568254E-01	2.308518E+00	3.605327E-01	8.594278E+00	60
61	1.601719E+00	4.800538E+00	6.181434E-01				63

			COLUMN 36			
1	2.866107E+00	2.476582E+00	3.723932E+00	1.720021E+01	3.908883E+01	-1.940428E+01	6
7	-4.842749E+01	2.089758E+01	1.805237E+02	-6.270106E+02	6.223143E+02	-9.161667E+02	12
13	4.030354E+01	-8.440294E+01	-3.374175E+02	4.422726E+00	5.457036E+00	-1.322398E+01	18
19	-1.176529E+02	-8.525552E+02	-7.628374E+00	-8.462884E+00	7.884271E+01	-6.708993E+01	24
25	5.223120E+01	-4.308149E+02	-1.400210E+02	-7.312729E+01	2.419710E+00	-1.140158E+03	30
31	-5.205834E+01	-7.426690E+01	-4.913947E+01	-6.283764E+02	1.894792E+03	2.605245E+03	36
37	2.766077E+00	2.031827E+00	2.647772E+00	9.947843E+01	1.002325E+01	-1.540247E+02	42
43	7.271428E+01	-5.398740E+00	4.037667E+01	9.367383E+00	-1.121898E+01	1.110761E+01	48
49	4.500333E-02	1.527823E+01	-5.239649E-01	2.781321E-03	1.527832E+01	6.477945E-01	54
55	2.535269E+00	-5.724265E-01	-1.651033E+00	1.521755E+00	2.545291E-01	2.016733E+00	60
61	2.108173E-01	6.025342E-01	1.411220E-01				63

			COLUMN 37			
1	-2.197809E+01	-2.123991E+01	-1.988330E+01	-1.088841E+02	-1.488002E+02	6.763421E+01	6
7	-1.158985E+02	-8.131721E+01	9.409448E+00	9.368429E+01	-5.257226E+01	-9.381305E+01	12
13	-1.843304E+01	-2.952163E+00	5.611837E+00	1.387279E+00	-1.272847E-01	2.342609E-01	18
19	-1.516318E+02	9.257561E+01	-7.900338E+00	-2.800955E+01	1.118457E+02	-2.867684E+01	24
25	-2.725373E+01	2.662792E+01	1.430971E+01	-8.293285E+00	-2.257686E+01	1.329435E+00	30
31	-1.455088E+02	-2.053685E+01	-1.025762E+01	-1.082075E+02	1.184479E+01	2.758077E+00	36
37	5.925493E+04	-1.225814E+02	1.857894E+02	-5.838351E+04	2.058341E+01	-5.178347E+01	42
43	-4.447750E+01	4.934080E+01	-7.456578E+01	-2.847040E+01	1.720175E+01	-3.089523E+00	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 37			
49	2.838641E-02	-2.090651E+00	2.117832E-01	-2.085944E-01	-2.090981E+00	-2.187324E-01	54
55	-1.288311E+01	-1.801349E+00	2.853028E+00	-1.782854E+00	-3.208435E-01	-1.865099E+00	60
61	-1.053953E-01	-1.247951E-01	-7.941783E-02				63

			COLUMN 38			
1	2.171057E+00	1.046793E+01	-2.533769E+00	-2.178875E-01	5.490064E+00	-5.030178E+00	6
7	4.962324E+01	-2.588985E+02	1.392049E+02	8.768592E+01	2.500564E+01	3.917823E+01	12
13	-7.013950E+00	1.695752E+01	-7.448913E+01	-5.700253E-01	-9.493249E-01	-2.907935E+00	18
19	1.521793E+01	4.579718E+01	-1.695258E+01	1.613313E+01	-4.072752E+01	1.518611E+01	24
25	-7.719612E+00	-6.231028E+01	-2.832906E+01	1.544767E+00	-2.292878E+00	-2.077021E+01	30
31	2.050982E+01	5.585688E+00	-4.296401E+00	9.488968E+00	3.172017E+00	2.031927E+00	36
37	-1.225814E+02	2.518948E+02	-1.208401E+02	-2.150083E+01	-7.282504E+01	7.389431E+01	42
43	1.103659E+01	1.020508E+01	3.799097E+00	5.039058E+00	1.020108E+00	3.164259E+00	48
49	3.628863E-02	-4.592041E-02	2.811420E-02	6.316360E-03	-4.584705E-02	5.279288E-03	54
55	3.380347E+00	-2.658659E-01	-5.764035E-01	3.917375E-01	7.226935E-02	2.243098E-01	60
61	-2.081716E-02	-8.838832E-02	7.909973E-03				63

			COLUMN 39			
1	-8.252663E+00	2.095044E+00	-1.080138E+01	-4.844040E+01	-4.423482E+01	1.077884E+01	6
7	-2.147669E+01	5.957894E+00	-1.574914E+02	2.427083E+02	-4.743513E+01	4.467881E+01	12
13	-3.373884E+01	3.388245E+01	-1.208883E+02	-1.389363E+00	-2.135128E+00	-4.713156E+00	18
19	-2.000709E+01	-4.537875E+01	1.036476E+01	-3.167142E+01	-2.527890E+01	3.115417E+01	24
25	-1.070105E+01	-1.017544E+02	-5.100677E+01	-3.956181E+00	9.878257E+00	1.198985E+01	30
31	-1.003301E+01	3.712042E+00	-1.266815E+01	1.190830E+00	-4.851480E-01	2.647772E+00	36
37	1.857694E+02	-1.208401E+02	2.763224E+02	5.180088E+01	5.142686E+01	-4.892278E+01	42
43	2.201277E+00	-1.090789E+01	2.081004E+01	-5.584975E-01	-6.080316E+00	-2.632405E+00	48
49	-3.171522E-02	2.940175E+00	-1.592116E-01	9.853502E-03	2.940137E+00	1.271050E-01	54
55	-2.184743E+00	3.155806E-01	1.158871E-01	-3.307265E-02	-9.321423E-03	2.738968E-01	60
61	7.167343E-02	2.242498E-01	2.280873E-02				63

			COLUMN 40			
1	-2.682088E+01	-3.424660E+01	-1.878299E+01	-1.382582E+02	-9.733224E+01	2.952718E+01	6
7	-2.351041E+02	-2.792034E+02	2.376737E+02	-2.089674E+02	-4.663686E+00	4.365291E+01	12
13	-2.061408E+01	-4.159104E+01	1.411384E+02	2.487419E+00	2.468094E+00	6.523715E+00	18
19	-2.564388E+02	2.687938E+01	4.009013E+01	-2.886429E+01	-2.207906E+01	1.409029E-01	24
25	-5.889379E+01	-3.880663E+01	3.568985E+01	-1.925181E+01	-1.330640E+01	7.458207E+01	30
31	-1.081662E+02	-9.078902E+00	5.305650E-01	-3.352834E+02	9.453221E+01	9.947843E+01	36
37	-5.838351E+04	-2.150093E+01	5.180088E+01	5.976493E+04	4.804524E+02	-6.284458E+02	42
43	-5.538705E+01	1.257411E+02	-8.956701E+01	-5.896576E+01	2.512943E+01	-1.598058E+01	48
49	8.006128E-02	7.914438E+00	-8.953292E-02	-5.157317E-01	7.913688E+00	-4.364223E-02	54
55	-3.280529E+01	-4.683954E+00	6.349938E+00	-3.819734E+00	-6.868775E-01	-3.149846E+00	60
61	-3.617734E-02	3.755021E-01	-9.432346E-02				63

			COLUMN 41			
1	-6.143476E-01	1.853567E+01	-3.703569E+00	-2.605703E+01	8.128802E+01	-6.785976E+01	6
7	-1.249019E+02	-2.088158E+02	3.562212E+01	-7.562939E+01	-2.484999E+02	1.004019E+03	12
13	-7.861060E+01	5.671638E+01	-2.310542E+01	-7.314221E+00	-1.899104E+00	-9.121486E-01	18

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INTERMEDIATE MATRIX ... KAA

			COLUMN 41			
19	1.382592E+02	-7.729681E+02	1.989204E+02	-9.579556E+01	-7.535880E+02	2.720869E+02	24
25	2.858105E+00	-5.046846E+02	-1.372308E+02	3.201022E+01	1.934923E+02	2.871598E+02	30
31	-1.135598E+01	2.975979E+00	-1.885689E-01	-9.336429E+01	8.622356E+00	1.002325E+01	36
37	2.058341E+01	-7.282504E+01	5.142686E+01	4.804524E+02	2.232797E+03	-1.894942E+03	42
43	5.407766E+01	-2.042464E+02	3.309934E+02	3.777576E-01	-1.298558E+02	-6.839725E+01	48
49	-6.145428E-01	6.085888E+01	-3.414548E+00	1.786539E-01	6.085812E+01	2.586196E+00	54
55	-4.418749E+01	6.012197E+00	2.772453E+00	-8.202676E-01	-1.881883E-01	5.703224E+00	60
61	1.481145E+00	4.638863E+00	4.808668E-01				63

			COLUMN 42			
1	2.159894E+01	2.586243E+01	1.325526E+01	1.054029E+02	-2.124440E+01	5.560353E+01	6
7	1.424504E+02	-5.720624E+01	1.860648E+01	8.871033E+02	-4.137049E+01	-4.611772E+02	12
13	5.281765E+01	1.486497E+02	-7.037667E+02	-3.369770E+00	-8.708458E+00	-2.748865E+01	18
19	3.671544E+01	8.851350E+02	-3.557761E+02	1.200926E+02	2.502299E+02	-7.378528E+01	24
25	3.736564E+01	-1.730314E+02	-1.704526E+02	6.124555E+01	-7.104287E+01	-6.376769E+02	30
31	2.242983E+00	-2.152045E+00	2.799887E+00	9.942738E+01	-1.278387E+01	-1.540247E+02	36
37	-5.178347E+01	7.389431E+01	-4.892278E+01	-6.284458E+02	-1.884942E+03	2.601964E+03	42
43	-1.048190E+01	-4.494053E+00	-8.165951E+01	3.286477E+01	-1.587740E+01	2.562795E+01	48
49	6.075165E-02	-5.244896E+00	1.947642E-01	1.977470E-01	-5.244451E+00	8.180912E-02	54
55	2.000801E+01	1.061636E+00	-3.441169E+00	2.899771E+00	5.242287E-01	1.952925E+00	60
61	-7.097408E-02	-4.814331E-01	6.753600E-02				63

			COLUMN 43			
1	-1.419859E+03	-1.860991E+03	-6.404031E+02	-7.824378E+03	-1.133843E+03	-8.730944E+02	6
7	-2.293524E+04	3.743672E+03	8.390583E+03	-1.278446E+03	-2.689669E+04	1.802090E+03	12
13	-1.059880E+03	-2.584155E+02	1.763671E+03	1.005437E+02	8.441646E+00	6.998700E+01	18
19	-8.176517E+04	9.127960E+03	6.276275E+02	-3.561808E+03	6.910743E+03	-8.237235E+02	24
25	-3.532164E+03	-1.283477E+03	1.028479E+03	-6.235995E+03	-2.085727E+02	-4.094732E+03	30
31	-3.206824E+01	5.593991E+00	-1.845725E+01	-9.456458E+01	9.422522E+01	7.271428E+01	36
37	-4.447750E+01	1.103659E+01	2.201277E+00	-5.538705E+01	5.407766E+01	-1.048190E+01	42
43	2.378628E+05	8.070981E+03	-8.750978E+03	-6.312821E+04	-9.021088E+03	-9.106833E+02	48
49	-2.387760E+02	-6.941597E+03	1.515723E+02	-1.137270E+02	-6.942204E+03	-1.070083E+02	54
55	-2.644498E+04	1.274524E+03	4.857918E+03	-2.736723E+03	-5.220289E+02	-2.256335E+03	60
61	1.088133E+01	2.574408E+02	-8.108378E+01				63

			COLUMN 44			
1	5.905620E+02	1.082478E+03	3.301817E+02	2.203630E+03	1.741292E+03	-3.448200E+02	6
7	-1.809687E+03	1.767854E+03	1.039532E+03	3.858499E+03	-1.589136E+04	7.859491E+03	12
13	1.142901E+02	2.184014E+03	-5.427798E+03	-1.385987E+02	-1.214491E+02	-2.122583E+02	18
19	5.714742E+03	-5.295793E+04	8.724543E+02	-5.979067E+02	-2.086323E+03	1.815527E+03	24
25	1.969958E+03	-7.888377E+02	-2.019808E+03	1.129115E+03	2.798576E+03	-6.812359E+03	30
31	-4.676528E+01	8.510261E+00	6.385636E+00	-1.189252E+02	-2.116072E+02	-6.399740E+00	36
37	4.934080E+01	1.020508E+01	-1.090788E+01	1.257411E+02	-2.042484E+02	-4.494053E+00	42
43	8.070981E+03	5.557580E+04	3.825633E+03	-4.573313E+02	-5.317085E+03	-7.597257E+02	48
49	-1.864752E+02	-4.530358E+03	7.502794E+01	1.562246E+02	-4.530378E+03	-8.428957E+01	54
55	-1.104700E+03	2.672871E+03	1.890145E+02	-3.805505E+01	-1.435458E+01	1.099843E+02	60
61	4.379578E+01	4.001217E+01	-1.026218E+01				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 45				
1	-1.122851E+03	-1.918634E+03	-4.277288E+02	-5.342252E+03	-2.105070E+03	3.386832E+02	6
7	-1.508048E+04	5.028007E+03	6.670576E+03	-8.332673E+03	4.627311E+03	-9.194579E+03	12
13	1.454205E+02	-2.482921E+03	8.089184E+03	1.965045E+02	1.235838E+02	3.158275E+02	18
19	1.014051E+04	-8.214869E+03	-1.428088E+04	-4.927542E+02	9.993925E+03	-3.849652E+03	24
25	-2.362152E+03	7.538821E+03	4.033334E+03	2.816080E+04	-7.428174E+03	-4.976183E+04	30
31	6.593703E+00	8.855673E+00	-1.929822E+01	-3.059800E+01	2.898497E+02	4.037667E+01	36
37	-7.458578E+01	3.789097E+00	2.081004E+01	-9.956701E+01	3.309934E+02	-8.165951E+01	42
43	-8.750978E+03	3.625833E+03	7.124767E+04	2.066778E+03	1.658232E+04	-1.546312E+04	48
49	-3.929890E+01	-7.253077E+03	2.588511E+02	-6.293274E+01	-7.253253E+03	-4.546156E+02	54
55	-8.793663E+03	-3.351807E+01	3.522623E+03	-9.603817E+02	-1.177744E+02	-1.087534E+03	60
61	-1.253172E+02	-3.796996E+02	-9.708181E+01				63
			COLUMN 46				
1	-9.197125E+02	-1.298927E+03	-4.727921E+02	-4.785715E+03	-8.561306E+02	-5.261372E+02	6
7	-1.288719E+04	7.365960E+02	4.781268E+03	-7.675826E+02	-1.174589E+04	1.112583E+03	12
13	-7.605054E+02	-3.086164E+02	9.174404E+02	6.335198E+01	1.785159E+01	3.645275E+01	18
19	-4.485528E+04	-8.909129E+02	4.670218E+02	-2.040904E+03	2.394246E+03	-2.420992E+02	24
25	-2.374079E+03	-2.772812E+03	2.733771E+02	-3.848439E+03	-4.189616E+02	1.017758E+03	30
31	-1.518240E+01	1.198045E+00	-9.842907E+00	-2.670283E+01	2.883408E+01	9.367383E+00	36
37	-2.847040E+01	5.039058E+00	-5.584975E-01	-5.896976E+01	3.777578E-01	3.286477E+01	42
43	-5.312921E+04	-4.573313E+02	2.056778E+03	2.319323E+05	2.501583E+03	1.340649E+04	48
49	-4.288963E+02	1.447319E+03	-6.162498E+01	-4.583442E+02	1.445792E+03	-2.028766E+01	54
55	-7.180892E+04	2.495100E+02	-4.647970E+03	-2.248386E+04	-4.638645E+03	-1.773330E+04	60
61	4.429644E+02	3.584787E+03	-4.467833E+02				63
			COLUMN 47				
1	1.349027E+02	2.937432E+02	8.642168E+01	3.380848E+02	5.872586E+02	-1.540105E+02	6
7	-2.589797E+03	-1.319869E+03	1.873685E+03	4.219224E+03	-4.172874E+03	5.617212E+03	12
13	-1.653098E+02	1.433859E+03	-4.216801E+03	-8.224911E+01	-7.429281E+01	-1.647837E+02	18
19	9.310451E+03	2.669601E+03	-1.886624E+03	-1.652568E+02	-3.794953E+03	1.628643E+03	24
25	5.603057E+02	-3.908150E+03	-1.936180E+03	4.616076E+03	1.841534E+03	-1.456726E+04	30
31	-2.521091E+01	-4.906710E-03	1.120358E+00	-3.384657E+01	-1.510584E+02	-1.121898E+01	36
37	1.720175E+01	1.020108E+00	-6.080316E+00	2.612943E+01	-1.298558E+02	-1.587740E+01	42
43	-9.021086E+03	-6.317085E+03	1.658232E+04	2.501583E+03	7.580707E+04	-2.723526E+03	48
49	1.061411E+02	-3.352447E+04	-1.571872E+03	-1.107985E+02	-3.352448E+04	1.533540E+03	54
55	-2.931531E+03	-6.754478E+03	-3.955354E+03	1.324392E+03	2.165501E+02	3.348458E+03	60
61	3.651890E+02	2.429404E+03	5.382688E+02				63
			COLUMN 48				
1	-2.485455E+02	-3.226380E+02	-1.008258E+02	-1.435382E+03	-8.026442E+01	-1.887174E+02	6
7	-5.800097E+03	-3.326243E+02	2.828432E+03	1.101170E+03	-3.833361E+03	3.393229E+03	12
13	-3.140959E+02	3.901754E+02	-6.404951E+02	-1.491448E+01	-1.887515E+01	-2.487268E+01	18
19	5.356156E+03	2.576293E+03	1.309307E+02	-6.611118E+02	-1.255183E+03	6.873721E+02	24
25	-4.409274E+02	-1.958158E+03	-4.848858E+02	2.287329E+03	8.028091E+02	-3.077863E+03	30
31	-1.592274E+01	3.463348E-01	-4.081852E+00	-2.522416E+01	-4.177259E+01	1.110761E+01	36
37	-3.089523E+00	3.164259E+00	-2.632405E+00	-1.599058E+01	-6.839725E+01	2.562795E+01	42
43	-9.105633E+02	-7.597267E+02	-1.546312E+04	1.340649E+04	-2.723526E+03	3.026290E+04	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 48				
49	1.633989E+01	1.523716E+03	-1.113928E+03	1.965368E+01	1.523778E+03	-9.806340E+02	54
55	4.219024E+03	4.633479E+01	-7.068020E+03	-1.208304E+04	-2.253643E+03	-7.853514E+03	60
61	3.189260E+02	1.849724E+03	-3.380410E+02				63
			COLUMN 49				
1	-1.588592E+00	-1.629110E+00	-6.050299E-01	-1.057968E+01	1.458729E+00	-2.492469E+00	6
7	-4.954185E+01	2.923210E+00	2.137731E+01	1.283170E+01	-7.170717E+01	2.949713E+01	12
13	-2.528649E+00	5.721808E+00	-1.416747E+01	-2.135102E-01	-3.049188E-01	-5.520167E-01	18
19	-9.797788E+01	-6.836733E+01	6.788499E-01	-7.757173E+00	-4.146842E+00	5.817759E+00	24
25	-2.767119E+00	-1.705335E+01	-6.270117E+00	1.365538E-01	8.047072E+00	-3.498632E+01	30
31	-1.802626E-01	1.784575E-02	-2.096170E-02	-3.887071E-01	-5.457278E-01	4.500333E-02	36
37	2.838641E-02	3.628863E-02	-3.171522E-02	8.006128E-02	-6.145428E-01	6.075185E-02	42
43	-2.387780E+02	-1.664752E+02	-3.829890E+01	-4.288883E+02	1.061411E+02	1.633989E+01	48
49	1.214339E+03	-3.741931E+01	2.898437E-01	2.352726E+00	-3.532417E+01	3.023820E-01	54
55	-2.806857E+02	1.824648E+02	1.746215E+01	-2.035489E+01	-5.196311E+00	6.235647E+00	60
61	7.018704E+00	1.734925E+01	3.203307E-01				63
			COLUMN 50				
1	8.678675E+01	9.102444E+01	3.837503E+01	5.610211E+02	-5.589108E+01	1.180264E+02	6
7	2.441161E+03	1.059358E+03	-1.357411E+03	-1.807188E+03	1.504670E+03	-2.437734E+03	12
13	2.023761E+02	-5.235499E+02	1.772893E+03	2.496084E+01	2.538402E+01	6.921175E+01	18
19	3.059037E+02	-3.150866E+03	1.046240E+03	2.445855E+02	1.894988E+03	-7.467897E+02	24
25	1.701816E+02	2.725794E+03	9.150334E+02	-1.883782E+03	-6.313645E+02	6.577294E+03	30
31	1.072280E+01	8.305189E-01	5.562722E-01	5.224115E+00	6.921797E+01	1.527923E+01	36
37	-2.090651E+00	-4.582041E-02	2.940175E+00	7.814438E+00	6.085888E+01	-5.244896E+00	42
43	-6.941587E+03	-4.530358E+03	-7.253077E+03	1.447319E+03	-3.352447E+04	1.523718E+03	48
49	-3.741831E+01	2.585128E+05	7.158870E+02	5.328744E+01	-2.181724E+05	-6.976461E+02	54
55	2.847505E+03	-7.901386E+02	1.891642E+03	-6.089640E+02	-5.859549E+01	-2.044596E+03	60
61	-4.305387E+02	-1.197567E+03	-1.425934E+02				63
			COLUMN 51				
1	-2.471744E+00	-1.459491E+00	-7.351047E-01	-1.990444E+01	6.807577E+00	-5.824627E+00	6
7	-1.234122E+02	-4.807108E+01	7.188689E+01	9.784669E+01	-9.898722E+01	1.425709E+02	12
13	-9.086029E+00	3.075708E+01	-9.452459E+01	-1.593280E+00	-1.531828E+00	-3.691122E+00	18
19	1.262261E+02	1.315425E+02	-4.570192E+01	-1.195592E+01	-8.932489E+01	4.108900E+01	24
25	-1.715484E+00	-1.269861E+02	-4.758893E+01	1.121708E+02	4.039459E+01	-3.418085E+02	30
31	-6.333853E-01	-2.287917E-02	-2.531989E-02	-5.869825E-01	-3.687706E+00	-5.239549E-01	36
37	2.117832E-01	2.811420E-02	-1.592115E-01	-8.953292E-02	-3.414548E+00	1.947542E-01	42
43	1.516723E+02	7.502794E+01	2.588511E+02	-6.162498E+01	-1.571872E+03	-1.113928E+03	48
49	2.898437E-01	7.158870E+02	1.168958E+03	-2.195229E-01	7.158871E+02	3.802950E+01	54
55	-4.934410E+01	-1.985535E+01	-1.316152E+02	-2.727736E+01	-5.883750E+00	5.828746E+01	60
61	1.847786E+01	8.702430E+01	7.268402E+00				63
			COLUMN 52				
1	-5.303072E+00	-7.883459E+00	-2.547648E+00	-2.633434E+01	-6.747608E+00	-1.879370E+00	6
7	-6.105822E+01	-2.656855E+00	2.414218E+01	-6.098892E+00	-2.366891E+01	-1.560218E+00	12
13	-3.975089E+00	-3.973830E+00	9.983355E+00	4.545600E-01	2.338876E-01	3.931244E-01	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

				COLUMN 52			
19	-1.687435E+02	8.378693E+01	-4.387751E+00	-8.261703E+00	8.579909E+00	-2.253382E+00	24
25	-1.407041E+01	-1.883774E+01	2.684846E+00	-5.204803E+00	-5.803403E+00	-8.887209E+00	30
31	-1.730163E-02	-1.026858E-02	-5.811436E-02	6.959710E-02	3.078569E-01	2.781321E-03	36
37	-2.086944E-01	6.316360E-03	9.653502E-03	-5.157317E-01	1.786539E-01	1.977470E-01	42
43	-1.137270E+02	1.562246E+02	-6.293274E+01	-4.583442E+02	-1.107985E+02	1.985368E+01	48
49	2.352726E+00	5.326744E+01	-2.195229E-01	1.213873E+03	5.536178E+01	8.678871E-01	54
55	-2.841856E+02	-1.833070E+02	7.842347E+01	-3.729785E+01	-5.977259E+00	-5.021133E+01	60
61	-5.804117E+00	-7.786347E+00	-1.422009E+00				63

				COLUMN 53			
1	8.675687E+01	9.100808E+01	3.836980E+01	5.509575E+02	-5.570019E+01	1.180188E+02	6
7	2.440970E+03	1.059359E+03	-1.357332E+03	-1.807176E+03	1.504505E+03	-2.437688E+03	12
13	2.023649E+02	-5.235469E+02	1.772886E+03	2.496125E+01	2.538390E+01	6.921147E+01	18
19	3.054444E+02	-3.150639E+03	1.046234E+03	2.445389E+02	1.*94998E+03	-7.467838E+02	24
25	1.701528E+02	2.725734E+03	9.150272E+02	-1.883801E+03	-6.313807E+02	6.577219E+03	30
31	1.072246E+01	8.305328E-01	5.561360E-01	5.223603E+00	6.921756E+01	1.527932E+01	36
37	-2.090961E+00	-4.584705E-02	2.940137E+00	7.913688E+00	6.085812E+01	-5.244451E+00	42
43	-6.942204E+03	-4.530376E+03	-7.253253E+03	1.445792E+03	-3.352448E+04	1.523778E+03	48
49	-3.532417E+01	-2.181724E+05	7.158871E+02	5.536178E+01	2.585128E+05	-6.976440E+02	54
55	2.848515E+03	-7.901401E+02	1.891807E+03	-6.090632E+02	-5.861573E+01	-2.044872E+03	60
61	-4.305346E+02	-1.197551E+03	-1.425953E+02				63

				COLUMN 54			
1	3.971849E-01	-1.115751E+00	-4.121035E-02	7.341706E+00	-6.855876E+00	4.054829E+00	6
7	6.801886E+01	4.105931E+01	-4.204972E+01	-8.313581E+01	6.413733E+01	-1.017225E+02	12
13	6.020225E+00	-2.552722E+01	8.530589E+01	1.337458E+00	1.277825E+00	3.332204E+00	18
19	-1.304433E+01	-9.843056E+01	4.742635E+01	5.751319E+00	8.108378E+01	-3.227468E+01	24
25	-1.165355E+00	1.054887E+02	4.118376E+01	-7.942198E+01	-3.001348E+01	3.009011E+02	30
31	4.521094E-01	2.579827E-02	-1.419855E-02	3.040732E-01	3.141691E+00	6.477945E-01	36
37	-2.187324E-01	5.279288E-03	1.271050E-01	-4.364223E-02	2.566196E+00	8.180912E-02	42
43	-1.070083E+02	-8.426857E+01	-4.546156E+02	-2.028766E+01	1.533540E+03	-9.806340E+02	48
49	3.023820E-01	-6.976461E+02	3.802950E+01	8.676871E-01	-6.976440E+02	1.170455E+03	54
55	1.694839E+02	1.997424E+01	5.951453E+01	-8.800877E+01	-1.398715E+01	-1.289682E+02	60
61	-1.524494E+01	-4.960424E+01	-1.074208E+01				63

				COLUMN 55			
1	-5.283531E+02	-7.215700E+02	-2.394987E+02	-2.850897E+03	-3.739939E+02	-3.487994E+02	6
7	-8.791912E+03	-1.011101E+02	3.692786E+03	8.272420E+02	-7.582235E+03	2.592372E+03	12
13	-5.188898E+02	2.341880E+02	-6.106931E+02	1.285977E+01	-1.052499E+01	-2.350745E+01	18
19	-1.948361E+04	1.439501E+03	-4.347312E+02	-1.251297E+03	3.205362E+01	4.006348E+02	24
25	-1.270142E+03	-2.930902E+03	-4.173710E+02	4.340030E+01	3.025722E+02	-4.483005E+03	30
31	-1.714649E+01	5.422036E-01	-6.084983E+00	-2.507985E+01	-2.963829E+01	2.535269E+00	36
37	-1.288311E+01	3.380347E+00	-2.164743E+00	-3.280529E+01	-4.418749E+01	2.000801E+01	42
43	-2.644498E+04	-1.104700E+03	-8.783663E+03	-7.180892E+04	-2.931531E+03	4.219024E+03	48
49	-2.908957E+02	2.847505E+03	-4.934410E+01	-2.841856E+02	2.846515E+03	1.894839E+02	54
55	1.529335E+05	1.756280E+03	3.309748E+04	-1.133836E+04	-6.221386E+03	-3.002822E+04	60
61	-4.558383E+02	4.184336E+03	1.242716E+03				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

				COLUMN 56			
1	-2.718070E+01	-4.648212E+01	-1.442986E+01	-1.132902E+02	-6.310731E+01	6.087285E+00	6
7	-5.704381E+01	-5.674724E+01	1.077225E+01	-1.403242E+02	4.265074E+02	-2.431576E+02	12
13	-1.029010E+01	-7.440985E+01	1.799545E+02	5.040779E+00	4.159454E+00	7.041591E+00	18
19	-4.430143E+02	1.253727E+03	-4.916806E+01	2.123239E+00	8.140864E+01	-5.983726E+01	24
25	-8.441579E+01	-8.332161E+00	6.514899E+01	-2.369433E+01	-1.071592E+02	1.718309E+02	30
31	1.322418E+00	-2.387270E-01	-2.612911E-01	3.666872E+00	6.317382E+00	-5.724265E-01	36
37	-1.801349E+00	-2.658659E-01	3.185806E-01	-4.843954E+00	6.012197E+00	1.061636E+00	42
43	1.274524E+03	2.672671E+03	-3.351807E+01	2.495100E+02	-6.754479E+03	4.633479E+01	48
49	1.824646E+02	-7.901388E+02	-1.986535E+01	-1.833070E+02	-7.901401E+02	1.997424E+01	54
55	1.756280E+03	6.378269E+03	4.985894E+03	-2.943094E+03	9.332850E+02	-3.946556E+03	60
61	-9.632464E+00	-2.503776E+03	-1.127056E+03				63

				COLUMN 57			
1	9.517247E+01	1.338605E+02	4.343528E+01	5.021878E+02	8.404624E+01	5.294330E+01	6
7	1.460063E+03	-4.736967E+01	-5.958313E+02	-7.757839E-01	1.175579E+03	-2.700441E+02	12
13	8.148897E+01	6.868515E+00	-5.158986E+01	-4.920357E+00	-5.770346E-01	-2.077605E+00	18
19	3.323469E+03	-3.042839E+02	3.313434E+01	2.084326E+02	-1.482834E+02	-1.107755E+01	24
25	2.322774E+02	3.348657E+02	-1.899465E+00	5.388843E+01	9.923612E+00	4.177391E+02	30
31	2.190416E+00	-1.213063E-01	1.149694E+00	3.888533E+00	-6.588254E-01	-1.851033E+00	36
37	2.853028E+00	-5.764035E-01	1.158871E-01	6.349936E+00	2.772453E+00	-3.441169E+00	42
43	4.857918E+03	1.590145E+02	3.522623E+03	-4.647970E+03	-3.955354E+03	-7.068020E+03	48
49	1.746215E+01	1.891642E+03	-1.316152E+02	7.842347E+01	1.891807E+03	5.951453E+01	54
55	3.309748E+04	4.985894E+03	7.759104E+04	-3.988045E+04	-1.619249E+04	-7.584309E+04	60
61	-6.656876E+02	1.114903E+04	2.256657E+03				63

				COLUMN 58			
1	-5.729064E+01	-8.125986E+01	-2.644581E+01	-2.894723E+02	-5.350048E+01	-3.106478E+01	6
7	-8.385049E+02	5.379455E+01	3.320299E+02	-6.044171E+01	-6.902445E+02	1.201621E+02	12
13	-4.727024E+01	-2.066341E+01	9.253778E+01	3.895988E+00	1.204553E+00	3.652148E+00	18
19	-1.969913E+03	4.148247E+01	6.771901E+01	-1.272219E+02	1.301452E+02	-8.853295E+00	24
25	-1.407857E+02	-1.387323E+02	2.763153E+01	-1.502746E+02	-1.125880E+01	1.645313E+02	30
31	-1.068838E+00	8.951352E-02	-6.997549E-01	-2.128252E+00	2.306518E+00	1.521755E+00	36
37	-1.782854E+00	3.917375E-01	-3.307285E-02	-3.819734E+00	-8.202676E-01	2.898771E+00	42
43	-2.736723E+03	-3.805505E+01	-9.603817E+02	-2.248388E+04	1.324392E+03	-1.208304E+04	48
49	-2.035489E+01	-6.088640E+02	-2.727736E+01	-3.729785E+01	-6.090632E+02	-8.800877E+01	54
55	-1.133836E+04	-2.943094E+03	-3.988045E+04	4.384728E+04	1.561310E+04	5.380435E+04	60
61	-2.904440E+03	-1.280063E+04	-1.510694E+03				63

				COLUMN 59			
1	-1.054804E+01	-1.489820E+01	-4.877562E+00	-5.526183E+01	-9.609312E+00	-5.910144E+00	6
7	-1.551334E+02	9.598642E+00	6.103269E+01	-9.758988E+00	-1.319818E+02	2.309744E+01	12
13	-8.835967E+00	-3.299578E+00	1.489074E+01	6.607788E-01	1.951501E-01	5.885845E-01	18
19	-3.864092E+02	-6.482365E+01	1.231184E+01	-2.378736E+01	2.348716E+01	-1.218171E+00	24
25	-2.602979E+01	-2.772014E+01	4.210518E+00	-3.091169E+01	-1.595813E+00	2.858987E+01	30
31	-2.046707E-01	1.686832E-02	-1.265598E-01	-4.003585E-01	3.605327E-01	2.545281E-01	36
37	-3.208435E-01	7.228935E-02	-9.321423E-03	-6.868775E-01	-1.881863E-01	5.242287E-01	42
43	-5.220289E+02	-1.435458E+01	-1.177744E+02	-4.636648E+03	2.165501E+02	-2.253643E+03	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 59			
49	-5.196311E+00	-5.859649E+01	-6.883750E+00	-5.977259E+00	-5.861573E+01	-1.396715E+01	54
55	-6.221386E+03	9.332650E+02	-1.619249E+04	1.561310E+04	1.948419E+05	2.089410E+04	60
61	-3.392001E+03	-1.958261E+05	-2.442706E+03				63

			COLUMN 60			
1	-4.141152E+01	-6.290474E+01	-1.996583E+01	-2.020752E+02	-5.753132E+01	-1.294234E+01	6
7	-4.282581E+02	1.138403E+02	1.298784E+02	-2.238933E+02	-3.136071E+02	-1.717983E+02	12
13	-2.114287E+01	-7.435589E+01	2.467388E+02	5.931752E+00	3.875951E+00	9.665309E+00	18
19	-1.723601E+03	-5.809879E+01	1.270233E+02	-7.538133E+01	2.733768E+02	-8.155746E+01	24
25	-1.106229E+02	1.106815E+02	1.074719E+02	-3.047026E+02	-8.573117E+01	7.210881E+02	30
31	3.861333E-01	8.419824E-02	-5.098830E-01	-2.875067E-01	8.594278E+00	2.016723E+00	36
37	-1.865099E+00	2.243098E-01	2.738988E-01	-3.149646E+00	5.703224E+00	1.952925E+00	42
43	-2.256335E+03	1.099943E+02	-1.087534E+03	-1.773330E+04	3.348458E+03	-7.853514E+03	48
49	6.235647E+00	-2.044596E+03	5.828746E+01	-5.021133E+01	-2.044672E+03	-1.289862E+02	54
55	-3.002822E+04	-3.946556E+03	-7.584308E+04	5.380435E+04	2.089410E+04	8.924238E+04	60
61	-5.226861E+02	-1.627017E+04	-5.446884E+03				63

			COLUMN 61			
1	1.060873E+00	5.139922E-01	3.148279E-01	9.062189E+00	-3.547152E+00	2.961871E+00	6
7	5.709007E+01	1.621018E+01	-3.112384E+01	-4.132349E+01	6.089610E+01	-6.186835E+01	12
13	3.986545E+00	-1.367403E+01	4.158857E+01	6.912793E-01	6.902118E-01	1.823824E+00	18
19	-1.778094E+00	-1.000446E+01	1.698340E+01	6.574058E+00	3.857816E+01	-1.730374E+01	24
25	7.780497E-01	5.291683E+01	2.032867E+01	-3.816604E+01	-1.781677E+01	1.368398E+02	30
31	2.922006E-01	2.078266E-03	9.585451E-03	3.344271E-01	1.601719E+00	2.106173E-01	36
37	-1.053953E-01	-2.081716E-02	7.167343E-02	-3.617734E-02	1.481145E+00	-7.097408E-02	42
43	1.088133E+01	4.379578E+01	-1.253172E+02	4.429844E+02	3.651890E+02	3.189260E+02	48
49	7.018704E+00	-4.305387E+02	1.847786E+01	-5.804117E+00	-4.305346E+02	-1.524494E+01	54
55	-4.556383E+02	-9.632464E+00	-6.656876E+02	-2.904440E+03	-3.392001E+03	-5.226861E+02	60
61	2.804318E+03	3.828083E+03	8.809659E+02				63

			COLUMN 62			
1	9.393456E+00	1.028533E+01	3.821419E+00	5.910877E+01	-4.868494E+00	1.210388E+01	6
7	2.581771E+02	5.058225E+01	-1.289459E+02	-1.248522E+02	2.425787E+02	-2.011427E+02	12
13	1.737929E+01	-4.010633E+01	1.221267E+02	1.743682E+00	1.998726E+00	4.764538E+00	18
19	2.038954E+02	-8.540460E+01	5.278065E+01	3.211380E+01	1.109553E+02	-6.319168E+01	24
25	1.784378E+01	1.855057E+02	6.180714E+01	-1.080493E+02	-5.274976E+01	4.298254E+02	30
31	9.894769E-01	8.717163E-03	9.808209E-02	1.119884E+00	4.600538E+00	6.025342E-01	36
37	-1.247951E-01	-8.838632E-02	2.242498E-01	3.755021E-01	4.638663E+00	-4.814331E-01	42
43	2.574408E+02	4.001217E+01	-3.796998E+02	3.584787E+03	2.429404E+03	1.849724E+03	48
49	1.734825E+01	-1.197567E+03	6.702430E+01	-7.786347E+00	-1.197551E+03	-4.960424E+01	54
55	4.184336E+03	-2.503776E+03	1.114903E+04	-1.280063E+04	-1.958261E+05	-1.627017E+04	60
61	3.828083E+03	1.981946E+05	3.329305E+03				63

			COLUMN 63			
1	-1.158817E+00	-1.957112E+00	-5.805580E-01	-5.056232E+00	-2.447682E+00	9.309383E-02	6
7	-5.043898E+00	8.305831E+00	-8.260988E-01	-1.622920E+01	-2.182796E+00	-1.849700E+01	12
13	8.000296E-02	-5.107403E+00	1.724217E+01	3.260565E-01	2.586634E-01	6.743053E-01	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... KAA

			COLUMN 63			
19	-4.848180E+01	-1.365940E+01	9.329841E+00	-1.569274E+00	1.747519E+01	-6.112326E+00	24
25	-3.303330E+00	1.580685E+01	7.984117E+00	-1.755078E+01	-5.898618E+00	5.586317E+01	30
31	6.195174E-02	5.917205E-03	-1.704188E-02	1.881427E-02	6.181434E-01	1.411220E-01	36
37	-7.941783E-02	7.909373E-03	2.280673E-02	-9.432346E-02	4.608666E-01	6.753600E-02	42
43	-8.108378E+01	-1.026216E+01	-9.708181E+01	-4.467833E+02	5.382688E+02	-3.380410E+02	48
49	3.203307E-01	-1.425934E+02	7.256402E+00	-1.422009E+00	-1.425953E+02	-1.074208E+01	54
55	1.242718E+03	-1.127088E+03	2.256657E+03	-1.510694E+03	-2.442706E+03	-5.446884E+03	60
61	8.809659E+02	3.329305E+03	3.581440E+03				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 1			
1	3.213142E+02	7.770946E+00	1.285115E+01	-2.423162E+02	-1.021241E+01	-1.447930E+01	6
7	-3.658333E+01	3.300049E+00	2.583602E+00	9.025716E-01	-9.575925E+00	5.743931E-01	12
13	-1.160158E+00	-3.533737E-02	-1.074447E+00	3.891164E-02	2.669179E-03	-4.145527E-02	18
19	-1.422943E+01	2.693509E-01	4.687495E-01	-2.979301E+00	2.433468E+00	2.645894E-01	24
25	-3.858611E+00	-6.217949E+00	-6.036383E-01	-1.735420E+00	-1.736014E-01	1.145140E+00	30
31	-1.037040E-02	-5.337266E-03	-1.903195E-03	4.949278E-04	-5.218237E-03	-1.186104E-02	36
37	-1.015896E-02	6.473665E-04	-1.078405E-02	-2.996222E-02	-2.152892E-02	3.400410E-02	42
43	-3.044275E+00	1.199287E+00	-1.036336E+00	-3.185784E+00	3.205340E-01	-7.914856E-01	48
49	-3.783638E-03	2.491611E-01	-7.241451E-03	-4.847151E-03	2.491457E-01	2.116832E-03	54
55	-2.545322E+00	-6.196088E-02	2.058874E-02	-7.150974E-02	3.025805E-02	1.272333E-01	60
61	9.492839E-03	-1.313763E-02	-1.273842E-02				63

				COLUMN 2			
1	7.770946E+00	3.807603E+01	-5.596065E-02	2.963835E+01	-5.198234E+01	2.089258E+00	6
7	-6.222343E+00	1.338756E+01	1.686119E+00	4.189528E+00	-1.673498E+00	-1.783074E+00	12
13	-1.576943E-01	1.649023E-01	1.232995E-01	8.230295E-03	-7.284034E-03	4.922114E-03	18
19	-1.852774E+01	1.584352E+00	2.941965E-01	-1.426998E+00	-5.395224E-02	1.648743E-01	24
25	-5.564567E+00	-8.926853E+00	-7.411427E-01	-1.738198E+00	-4.789513E-01	1.426335E+00	30
31	-1.391135E-02	-2.097153E-03	-8.119496E-03	3.191871E-03	-2.535171E-03	-2.959968E-02	36
37	-1.658274E-02	4.645065E-03	-6.615729E-03	-5.162376E-02	-2.245210E-02	5.751528E-02	42
43	-3.813335E+00	2.748620E+00	-2.268649E+00	-4.544492E+00	6.591471E-01	-1.134484E+00	48
49	-3.749704E-03	3.996716E-01	-1.016053E-02	-8.670719E-03	3.996490E-01	2.695136E-03	54
55	-3.549678E+00	-1.328654E-01	4.517072E-02	-1.087408E-01	3.876550E-02	1.608154E-01	60
61	1.285991E-02	-2.045385E-02	-1.798462E-02				63

				COLUMN 3			
1	1.285115E+01	-5.596065E-02	1.298815E+01	1.412083E+01	2.792807E+00	-1.438069E+01	6
7	-6.845131E+00	-2.060886E+00	-1.141286E-01	-1.793076E-01	-6.228555E+00	7.056738E-01	12
13	-7.908689E-01	5.794440E-02	-7.477317E-01	2.351736E-02	-6.857597E-05	-2.883357E-02	18
19	-5.744135E+00	-2.731497E-01	2.882987E-01	-1.855846E+00	1.580620E+00	2.448131E-01	24
25	-1.386686E+00	-2.454074E+00	-2.937996E-01	-1.105188E+00	3.674375E-02	1.154576E+00	30
31	-1.123180E-02	-4.679493E-03	-2.889577E-03	5.603658E-03	-1.194436E-02	-5.850734E-03	36
37	1.331176E-02	-3.523985E-03	4.434119E-04	-1.577619E-03	-1.792345E-02	1.271458E-02	42
43	-8.501987E-01	3.173797E-01	3.228796E-01	-1.142968E+00	1.495962E-01	-1.808731E-01	48
49	-1.189490E-03	7.109041E-02	-1.152242E-03	1.337828E-04	7.108819E-02	6.747322E-04	54
55	-9.401150E-01	-1.910955E-02	-3.025880E-02	-7.969298E-03	1.812538E-02	7.317329E-02	60
61	3.704265E-03	-1.105243E-02	-5.373760E-03				63

				COLUMN 4			
1	-2.423162E+02	3.963835E+01	1.412083E+01	9.562727E+02	-3.505711E+01	2.243634E+01	6
7	-5.139031E+02	7.194685E-01	-2.937088E+01	-5.599416E-01	-5.147562E+01	-3.873881E+00	12
13	3.239591E-01	-7.219865E-01	-1.809498E+00	-9.597156E-02	7.722941E-02	-7.218992E-02	18
19	-6.477097E+01	-3.352754E-01	2.468624E+00	-1.626452E+01	1.561985E+01	9.124410E-01	24
25	-1.597394E+01	-2.542066E+01	-2.574770E+00	-8.438154E+00	-4.670630E+01	4.394956E+00	30
31	-5.517260E-02	-1.524535E-02	-2.998430E-02	-3.178745E-03	-1.894882E-02	-3.215849E-02	36
37	-1.482994E-02	-3.400758E-04	-3.810095E-03	-1.124381E-01	-6.872467E-02	1.028616E-01	42
43	-1.491918E+01	3.504872E+00	-3.336402E+00	-1.523030E+01	1.076363E+00	-3.941331E+00	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 4			
49	-1.920228E-02	1.006014E+00	-3.282023E-02	-1.317945E-02	1.005954E+00	7.180299E-03	54
55	-1.270241E+01	-1.888945E-01	-7.079566E-02	-2.801419E-01	1.819300E-01	7.710003E-01	60
61	4.741528E-02	-8.175835E-02	-6.616116E-02				63

				COLUMN 5			
1	-1.021241E+01	-5.198234E+01	2.792807E+00	-3.505711E+01	1.088517E+02	-6.481806E+00	6
7	3.067575E+01	-5.091166E+01	2.852038E-01	-1.015041E+00	9.677101E+00	3.509103E+00	12
13	8.336909E-01	-1.584955E-01	-1.397151E+00	-7.724288E-02	3.348679E-02	-5.558713E-02	18
19	1.276721E+00	2.174904E+00	-5.944321E-01	2.915205E+00	-7.425414E+00	1.290921E+00	24
25	-1.260392E-01	-3.644584E+00	-1.303578E+00	1.368846E-01	-7.249365E-02	1.556257E+00	30
31	-5.901068E-03	-1.447222E-02	1.090820E-02	8.602713E-02	-7.120369E-02	-3.140821E-02	36
37	8.019061E-02	-3.021883E-02	1.716208E-02	-3.849218E-02	-5.801029E-02	9.176250E-03	42
43	1.727234E+00	2.442299E+00	5.264319E-01	-9.575417E-01	3.768805E-01	-1.426576E-01	48
49	2.878321E-03	3.070150E-01	-6.881535E-03	2.523263E-03	3.070246E-01	6.929140E-03	54
55	-9.771580E-01	-1.317269E-01	-1.385984E-01	4.488175E-02	4.040369E-02	1.537851E-01	60
61	8.153483E-03	-3.098143E-02	-7.417883E-03				63

				COLUMN 6			
1	-1.447930E+01	2.089258E+00	-1.438069E+01	2.243634E+01	-6.491806E+00	4.708581E+01	6
7	2.871538E+01	4.165955E+00	-3.205480E+01	-1.866511E-02	-1.303498E+01	-3.059779E+00	12
13	-2.065937E-01	-2.717631E-01	-5.684274E-02	-1.787765E-02	2.149518E-02	-2.493750E-03	18
19	-1.007590E+01	-2.251395E+00	7.181335E-01	-4.064455E+00	5.777820E+00	-2.144272E-01	24
25	-1.914348E+00	-2.008606E+00	1.125229E-01	-2.199405E+00	1.585031E-01	1.055316E+00	30
31	-3.031475E-03	3.588551E-03	-9.369020E-03	-4.008040E-02	1.876354E-02	8.473465E-03	36
37	-1.993840E-02	1.636019E-02	-1.443276E-02	3.489552E-02	8.751616E-03	4.755551E-03	42
43	-2.237392E+00	-1.163036E+00	9.356398E-01	-1.555584E+00	5.229427E-02	-1.758266E-01	48
49	-3.512500E-03	-1.005877E-01	4.042032E-03	2.344068E-03	-1.005803E-01	-3.752603E-03	54
55	-1.310295E+00	5.804021E-02	-5.272781E-02	-7.987904E-03	2.612202E-02	1.087557E-01	60
61	2.802151E-03	-1.516196E-02	-7.729718E-03				63

				COLUMN 7			
1	-3.658333E+01	-6.222343E+00	-6.945131E+00	-5.139031E+02	3.087575E+01	2.871538E+01	6
7	8.570623E+02	-3.865704E+01	-5.253253E+00	-8.925801E+00	-7.501509E+01	-5.508976E+00	12
13	5.070889E+00	-6.849288E-01	9.901104E+00	-4.637828E-02	4.049118E-02	3.847832E-01	18
19	-8.940042E+01	-1.017618E+01	7.148588E+00	-2.881982E+01	4.085552E+01	-4.218793E+00	24
25	-7.827033E+00	-1.036248E+00	2.204190E+00	-7.109535E+00	1.234610E-01	-9.933731E+00	30
31	6.476937E-02	6.378142E-02	1.854448E-02	-1.637073E-01	1.031340E-01	8.384483E-02	36
37	5.061905E-02	6.783581E-03	6.615819E-02	5.149548E-02	4.282386E-04	3.611008E-02	42
43	-3.648783E+01	-6.902893E+00	-5.175792E+00	-3.356336E+01	-1.658288E+00	-1.285861E+01	48
49	-4.713454E-02	1.002756E+00	-8.385857E-02	2.183839E-02	1.002698E+00	-1.674961E-02	54
55	-3.322528E+01	3.594730E-01	-1.210852E+00	-3.547266E-01	6.520624E-01	2.840459E+00	60
61	1.202181E-01	-2.780759E-01	-1.904740E-01				63

				COLUMN 8			
1	3.300049E+00	1.338758E+01	-2.080886E+00	7.194885E-01	-5.091166E+01	4.165955E+00	6
7	-3.865704E+01	6.311592E+01	-3.495147E+00	-2.194171E+00	1.242198E+01	8.223697E+00	12
13	-1.243113E+00	7.124718E-02	-8.782177E+00	-2.055141E-02	1.833250E-02	-2.852222E-01	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 8			
19	6.731810E+00	-2.659624E+00	-1.106193E+00	5.637648E+00	-1.399268E+01	2.590872E+00	24
25	-1.189817E+00	-1.035028E+01	-3.029437E+00	3.323114E-01	1.688189E+00	-2.630772E-01	30
31	-3.018777E-02	-8.580801E-03	3.786759E-03	1.325208E-02	-1.961963E-01	-1.191444E-01	36
37	4.266558E-02	-3.654089E-03	-1.415621E-02	3.337208E-02	-1.557889E-01	6.441728E-02	42
43	7.688642E+00	8.827678E-01	3.284398E+00	2.995848E+00	2.472880E-01	8.480085E-01	48
49	1.476360E-03	4.513592E-01	-5.987475E-03	1.508532E-02	4.513877E-01	1.344385E-02	54
55	1.031241E+00	8.475871E-02	-2.698335E-01	1.804974E-01	3.312053E-02	2.219130E-01	60
61	-2.539111E-03	2.659082E-02	3.261931E-03				63
				COLUMN 9			
1	2.533602E+00	1.686519E+00	-1.141295E-01	-2.937088E+01	2.952036E-01	-3.205480E+01	6
7	-5.253253E+00	-3.495147E+00	6.387595E+01	-3.692468E+00	3.078508E+00	-2.200400E+01	12
13	4.173739E+00	-1.841824E-01	-2.652084E+00	-1.847075E-01	1.244104E-02	-1.065656E-01	18
19	6.596208E-01	6.971843E-01	-1.849179E+00	8.871453E-02	7.559492E+00	-3.281730E+00	24
25	-4.406877E-01	-4.404207E+00	-2.097779E+00	-3.671178E+00	-9.485350E-01	-4.294580E+00	30
31	-3.759279E-02	-1.144121E-02	-5.354421E-02	2.457048E-02	-4.662750E-02	-8.669835E-02	36
37	-4.220170E-02	1.642878E-02	-5.826641E-03	-7.231030E-02	1.246506E-01	-1.132489E-01	42
43	7.239938E+00	2.294349E+00	-9.796959E-02	9.684881E+00	8.222201E-01	5.251574E+00	48
49	6.281672E-03	-1.700629E-01	2.841009E-02	-2.377817E-02	-1.700873E-01	1.584754E-02	54
55	1.167670E+01	-1.999939E-01	8.920889E-01	-2.491373E-02	-3.059174E-01	-1.330019E+00	60
61	-4.039905E-02	1.395549E-01	7.728069E-02				63
				COLUMN 10			
1	9.025716E-01	4.159529E+00	-1.793076E-01	-5.599416E-01	-1.015041E+00	-1.866511E-02	6
7	-8.925801E+00	-2.194171E+00	-3.692468E+00	9.001386E+01	2.338133E+01	-1.227739E+01	12
13	2.210088E+00	-2.451380E-01	1.167739E+01	-3.176682E-01	2.416855E-02	4.525911E-01	18
19	-2.303898E+01	-8.010634E+00	4.776117E+00	1.259634E+01	-4.374040E+01	2.736474E+00	24
25	-1.286010E+01	-3.626813E+01	-1.261903E+00	2.329895E+00	-1.627729E+00	1.188519E+00	30
31	6.341052E-02	-6.358281E-03	3.175690E-02	-6.769091E-02	1.526758E-01	7.314106E-02	36
37	-7.746242E-02	6.851550E-03	-4.901715E-02	5.329378E-02	-1.298552E-02	1.380408E-01	42
43	1.407457E+00	-1.102387E+00	-3.811082E+00	3.143371E-01	4.293497E-02	4.505465E-01	48
49	-6.497524E-03	8.631041E-02	-1.139171E-02	8.698656E-03	8.831161E-02	1.465159E-02	54
55	2.567177E+00	-2.617488E-01	1.175832E-01	-4.952580E-02	-6.143206E-02	-3.674597E-01	60
61	1.826591E-02	-2.920956E-02	1.400612E-02				63
				COLUMN 11			
1	-9.575925E+00	-1.673498E+00	-6.228555E+00	-5.147562E+01	9.677101E+00	-1.303498E+01	6
7	-7.501509E+01	1.242198E+01	3.079508E+00	2.338133E+01	3.943447E+02	1.079554E+00	12
13	-1.818962E+00	-7.254364E-01	-6.320803E+00	2.440844E-01	4.496175E-02	-2.452004E-01	18
19	-2.279571E+02	1.288708E+01	-5.204897E-01	3.189940E+01	-5.183141E+01	3.240632E+00	24
25	6.108184E+00	1.236586E+01	1.080572E+00	-1.363734E+01	1.612848E+00	4.720366E+00	30
31	6.250686E-02	-1.223117E-02	6.456799E-02	2.164748E-01	-1.225095E-01	-2.205605E-01	36
37	6.322708E-02	-3.806568E-02	8.863666E-03	6.915067E-02	9.106077E-02	-6.578216E-02	42
43	-2.151576E+01	-1.153916E+01	1.338900E+01	-1.480718E+01	8.108616E-01	-1.454791E-01	48
49	3.276301E-02	-4.209244E+00	1.599056E-01	7.610146E-02	-4.209089E+00	-1.292688E-01	54
55	-1.816236E+01	8.765011E-01	-2.733620E+00	9.102763E-01	7.800885E-01	2.988110E+00	60
61	-8.864986E-03	-6.240936E-01	-1.482190E-01				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 12			
1	5.743931E-01	-1.783074E+00	7.056738E-01	-3.873881E+00	3.508103E+00	-3.059779E+00	6
7	-5.509976E+00	6.223897E+00	-2.200400E+01	-1.227739E+01	1.079554E+00	7.085937E+01	12
13	-1.344616E+01	3.672850E-01	-2.471719E+01	1.193250E+00	-2.087662E-02	-8.505639E-01	18
19	1.171980E+01	-5.952667E-01	4.169332E+00	2.874225E+00	-2.988808E+00	7.986885E-01	24
25	1.026248E+00	5.851812E+00	1.873855E+00	4.880394E-01	-2.000592E+00	-2.058442E+01	30
31	6.138734E-02	2.431961E-02	7.738339E-02	-4.284845E-02	-6.338386E-02	1.386872E-02	36
37	8.491363E-02	-4.231472E-02	3.876415E-02	-5.148514E-02	-1.449068E-01	8.567446E-02	42
43	-9.589381E-01	1.824312E+00	-8.485453E+00	9.328374E-01	-1.194789E+00	7.845255E-01	48
49	-2.393460E-02	1.969857E+00	-8.354314E-02	-3.047835E-02	1.969767E+00	8.334835E-02	54
55	4.196623E+00	-5.655993E-01	1.255043E+00	-2.631397E-01	-2.494032E-01	-1.030876E+00	60
61	3.553674E-02	1.605148E-01	5.441388E-02				63
				COLUMN 13			
1	-1.180158E+00	-1.576943E-01	-7.908688E-01	3.239581E-01	8.336909E-01	-2.065937E-01	6
7	5.070889E+00	-1.243113E+00	4.173738E+00	2.210088E+00	-1.818862E+00	-1.344616E+01	12
13	8.602582E+00	2.486211E-02	8.721504E+00	-5.638880E-01	3.015575E-03	3.335144E-01	18
19	-5.403853E+00	-3.211977E-01	-5.346161E-01	-2.723047E-01	-2.547781E-01	3.250311E-01	24
25	2.619538E-01	-1.335435E+00	-5.608144E-01	-1.509726E+00	1.943115E-01	8.555689E-01	30
31	-1.009858E-02	1.279720E-03	-9.343763E-03	3.530391E-03	-1.845632E-02	-4.018042E-03	36
37	9.786208E-03	1.345897E-03	8.415497E-03	1.364277E-02	1.930679E-02	-4.190748E-02	42
43	-6.318126E-01	-1.183221E-01	1.288645E+00	-1.358656E+00	1.494461E-01	-1.489832E-01	48
49	-5.184447E-04	-1.914287E-02	2.957994E-03	5.305198E-03	-1.913545E-02	-2.100886E-03	54
55	-1.453637E+00	2.615798E-02	-1.648174E-01	3.847275E-02	4.862268E-02	2.011167E-01	60
61	4.010428E-03	-2.908721E-02	-1.040425E-02				63
				COLUMN 14			
1	-3.533737E-02	1.649023E-01	5.794440E-02	-7.219855E-01	-1.584955E-01	-2.717631E-01	6
7	-6.649288E-01	7.124719E-02	-1.641824E-01	-2.451380E-01	-7.254384E-01	3.672850E-01	12
13	2.486211E-02	1.254013E+00	3.764578E-01	-5.163460E-03	-9.855805E-02	1.524124E-02	18
19	2.352358E+00	-5.540622E-01	-1.146809E-02	2.837419E-01	-6.400853E-01	8.626318E-02	24
25	2.810053E-02	1.886658E-01	7.628203E-02	-9.097820E-01	-2.455373E-01	-3.836348E-01	30
31	-1.350501E-03	-1.475819E-03	3.238213E-03	-8.548983E-03	-1.277588E-02	-1.432311E-03	36
37	1.088419E-03	-1.832277E-03	-2.839868E-03	1.178294E-02	-1.381336E-02	1.887742E-03	42
43	3.606256E-01	-9.803777E-02	-3.124001E-01	-4.053670E-01	-5.978458E-02	1.648938E-01	48
49	-4.729833E-03	2.855038E-01	-1.150867E-02	1.399034E-03	2.854984E-01	1.327410E-02	54
55	4.274857E-01	-1.128705E-01	7.358149E-02	-2.458185E-02	-1.964528E-02	-1.012630E-01	60
61	1.058747E-02	1.515124E-03	4.354106E-03				63
				COLUMN 15			
1	-1.074447E+00	1.232985E-01	-7.477317E-01	-1.809498E+00	-1.387151E+00	-5.864274E-02	6
7	9.901104E+00	-6.792177E+00	-2.652084E+00	1.167739E+01	-6.320803E+00	-2.471719E+01	12
13	8.721504E+00	3.764578E-01	3.184372E+01	-7.805847E-01	-3.764801E-02	1.226782E+00	18
19	-7.168918E+00	6.878514E-02	3.236828E+00	-7.073090E-01	-1.702655E+00	7.309840E-01	24
25	1.464329E+00	1.280883E-01	3.571599E-01	1.778548E+00	9.224313E-01	-8.734532E+00	30
31	3.508446E-02	1.401508E-02	4.836174E-03	-6.214919E-02	9.837783E-02	1.254114E-01	36
37	6.512201E-03	1.929859E-03	1.732755E-02	-3.495308E-03	2.607517E-02	-3.068885E-02	42
43	-2.938747E+00	-2.564564E+00	1.081068E-01	7.878462E-01	-6.966559E-01	-8.021336E-01	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 15			
49	-1.375102E-03	-3.847250E-01	1.019834E-02	-1.072567E-03	-3.847297E-01	-2.015878E-02	54
55	-2.075598E+00	4.433716E-01	-1.253293E-02	6.449822E-02	4.523450E-02	3.208353E-01	60
61	-1.945162E-02	4.638987E-02	-8.581677E-03				63
			COLUMN 16			
1	3.891164E-02	8.230295E-03	2.351736E-02	-9.597156E-02	-7.724288E-02	-1.787785E-02	6
7	-4.637828E-02	-2.055141E-02	-1.847075E-01	-3.176682E-01	2.440844E-01	1.183250E+00	12
13	-5.638880E-01	-5.163480E-03	-7.805847E-01	6.838907E-02	-8.189798E-04	-2.971566E-02	18
19	2.262276E-01	6.032301E-03	-3.588372E-02	-5.622377E-02	2.292728E-01	-8.887467E-02	24
25	1.618488E-02	2.259504E-01	8.406774E-02	2.682225E-02	5.538477E-03	-1.345304E-01	30
31	1.219777E-03	6.672011E-04	6.441389E-04	1.464598E-04	6.883967E-04	-1.648887E-03	36
37	-6.030981E-04	-4.529633E-05	5.427827E-04	-6.483168E-04	3.076874E-03	-1.309229E-03	42
43	3.831482E-03	-2.175515E-02	-3.049226E-02	9.154153E-02	-3.230789E-03	5.641082E-03	48
49	2.241390E-04	-2.016636E-02	7.378985E-04	-2.249031E-04	-2.016632E-02	-7.738558E-04	54
55	5.568577E-02	7.627377E-03	2.315986E-03	-8.452751E-04	-1.412864E-03	-4.580601E-03	60
61	-8.751410E-04	1.508823E-03	2.636256E-04				63
			COLUMN 17			
1	9.669178E-03	-7.294034E-03	-6.667597E-05	7.722941E-02	3.348679E-02	2.149516E-02	6
7	4.049118E-02	1.833250E-02	1.244104E-02	2.416855E-02	4.486175E-02	-2.087662E-02	12
13	3.015575E-03	-9.865805E-02	-3.764801E-02	-8.189796E-04	8.425807E-03	-1.527359E-03	18
19	-1.972973E-01	3.712079E-02	-6.225523E-03	-1.433872E-02	1.668873E-02	3.312459E-03	24
25	-1.401804E-02	-5.589891E-02	-1.686338E-02	6.197394E-02	1.202669E-02	3.554201E-02	30
31	-1.189578E-04	-2.668090E-05	-1.788809E-04	6.017433E-04	-2.833156E-05	-2.633302E-04	36
37	1.473107E-04	2.292470E-05	9.107041E-05	-8.756878E-04	7.887812E-05	1.608394E-04	42
43	-1.583302E-02	2.873807E-02	1.719599E-02	2.361252E-02	3.158792E-03	-7.884075E-03	48
49	3.088188E-04	-1.316229E-02	5.450912E-04	-1.687292E-04	-1.316205E-02	-6.362935E-04	54
55	-1.899437E-02	4.952941E-03	-3.004325E-03	1.142465E-03	8.697270E-04	4.571362E-03	60
61	-5.734905E-04	1.105098E-05	-1.818907E-04				63
			COLUMN 18			
1	-4.145527E-02	4.922114E-03	-2.883357E-02	-7.218992E-02	-5.558713E-02	-2.493750E-03	6
7	3.847832E-01	-2.652222E-01	-1.065858E-01	4.525911E-01	-2.452004E-01	-9.505839E-01	12
13	3.335144E-01	1.524124E-02	1.226782E+00	-2.971586E-02	-1.527359E-03	4.755557E-02	18
19	-2.747634E-01	2.430487E-03	1.264626E-01	-2.787625E-02	-6.471638E-02	2.771377E-02	24
25	5.742457E-02	7.825088E-03	1.498813E-02	6.979524E-02	3.591982E-02	-3.431094E-01	30
31	1.384375E-03	5.531932E-04	2.018365E-04	-2.436860E-03	3.856520E-03	4.895686E-03	36
37	2.472988E-04	7.453980E-05	6.792439E-04	-1.393020E-04	1.034330E-03	-1.197672E-03	42
43	-1.145387E-01	-1.004807E-01	3.395630E-03	3.174519E-02	-2.741201E-02	-3.119788E-02	48
49	-5.435846E-05	-1.505509E-02	3.980444E-04	-4.447987E-05	-1.505528E-02	-7.872439E-04	54
55	-8.007995E-02	1.733491E-02	-3.849728E-04	2.491965E-03	1.733346E-03	1.239189E-02	60
61	-7.634738E-04	1.835626E-03	-3.282507E-04				63
			COLUMN 19			
1	-1.422943E+01	-1.852774E+01	-5.744135E+00	-6.477097E+01	1.276721E+00	-1.007590E+01	6
7	-8.940042E+01	6.731810E+00	6.596208E-01	-2.303898E+01	-2.278571E+02	1.171980E+01	12
13	-5.403953E+00	2.352356E+00	-7.186919E+00	2.262276E-01	-1.972973E-01	-2.747634E-01	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 19			
19	5.714626E+02	7.222418E+00	-1.030129E+01	-3.733998E+00	1.129081E+01	-1.067052E+00	24
25	-2.783949E+00	4.830006E+00	6.967461E-01	-1.808476E+01	-1.107888E+00	1.057357E+01	30
31	1.808058E-02	-3.180269E-02	-1.421921E-02	7.102375E-02	7.232290E-02	1.007680E-01	36
37	-4.095036E-02	3.704575E-03	-3.519723E-02	4.462506E-02	8.157271E-02	-1.128104E-01	42
43	-3.582130E+01	3.434892E+00	4.925230E+00	-5.277087E+01	3.879755E+00	2.489188E+00	48
49	-1.447855E-02	5.514000E-01	5.593489E-02	1.759858E-01	5.516445E-01	4.530720E-02	54
55	-6.035873E+01	-1.230344E-02	-4.649780E+00	3.178133E+00	2.140859E+00	8.513271E+00	60
61	2.032474E-01	-1.518148E+00	-3.380885E-01				63
			COLUMN 20			
1	2.693509E-01	1.584352E+00	-2.731497E-01	-3.352754E-01	2.174904E+00	-2.251385E+00	6
7	-1.017616E+01	-2.859524E+00	6.971843E-01	-8.010634E+00	1.288708E+01	-5.952867E-01	12
13	-3.211977E-01	-5.540622E-01	6.676514E-02	6.032301E-03	3.712079E-02	2.430487E-03	18
19	7.222416E+00	5.780072E+01	-4.204154E+00	1.029589E+00	-9.634247E+00	1.538480E+00	24
25	-2.744893E+00	-1.280998E+01	-1.940294E+00	2.803826E+00	-1.301322E+01	8.285551E+00	30
31	-1.062291E-03	-1.249322E-02	-1.405801E-02	1.116793E-01	-5.941588E-02	-8.973062E-02	36
37	1.640248E-03	-1.371169E-02	1.552284E-02	-1.198503E-01	-6.584111E-02	9.825867E-02	42
43	-1.212770E+01	-8.784645E+00	-2.481539E+00	-1.033917E+00	-2.988528E+00	1.235517E+00	48
49	-1.046230E-04	-2.249272E+00	4.016154E-02	-2.678613E-02	-2.249317E+00	-2.982684E-02	54
55	2.612601E+00	1.537336E+00	4.008478E-01	-3.481780E-02	-1.149444E-01	-5.802484E-01	60
61	-2.653557E-02	6.505752E-02	5.917356E-02				63
			COLUMN 21			
1	4.687495E-01	2.941985E-01	2.882997E-01	2.488624E+00	-5.944321E-01	7.181335E-01	6
7	7.148588E+00	-1.106193E+00	-1.849179E+00	4.776117E+00	-5.204897E-01	4.169332E+00	12
13	-5.348161E-01	-1.146809E-02	3.238828E+00	-3.588372E-02	-6.225523E-03	1.264826E-01	18
19	-1.030129E+01	-4.204154E+00	3.031810E+01	-5.859858E-01	2.077756E-01	4.135767E-01	24
25	-8.973210E-01	1.739549E+00	1.083801E+00	-3.608775E+00	-1.585058E+00	-4.033008E+01	30
31	1.863924E-02	-1.117857E-02	-7.543746E-03	-1.257118E-03	1.785471E-01	1.951104E-01	36
37	4.187038E-03	8.294461E-03	-1.227821E-02	-6.529347E-03	-9.093199E-02	1.489371E-01	42
43	3.675654E+00	4.702975E-01	2.670874E+00	3.122942E+00	1.058843E+00	-1.354382E+00	48
49	4.204408E-03	-5.939996E-01	2.146387E-02	7.785362E-03	-5.939794E-01	-4.185057E-02	54
55	-5.245729E-01	3.576434E-02	-1.555369E-02	1.233042E-01	4.775503E-02	2.344543E-01	60
61	-1.840176E-02	-3.899718E-02	-1.454740E-02				63
			COLUMN 22			
1	-2.978301E+00	-1.428996E+00	-1.855846E+00	-1.826452E+01	2.915205E+00	-4.064455E+00	6
7	-2.861962E+01	5.637848E+00	8.871453E-02	1.259834E+01	3.189940E+01	2.874225E+00	12
13	-2.725047E-01	2.837418E-01	-7.073090E-01	-5.822377E-02	-1.433872E-02	-2.767825E-02	18
19	-3.733998E+00	1.029589E+00	-5.859858E-01	2.148905E+01	-2.377907E+01	7.421551E-01	24
25	9.090043E+00	2.704327E+00	-1.147399E+00	-2.317650E+00	1.553852E-01	2.750336E+00	30
31	1.630508E-02	-7.337230E-03	1.888298E-02	3.865808E-02	-1.348281E-02	-1.835558E-03	36
37	1.524848E-02	-1.413124E-02	-5.664448E-03	2.128638E-03	-1.198420E-02	-2.515088E-03	42
43	-1.914387E+00	-6.813849E-03	2.299710E+00	-3.186588E+00	4.366973E-01	-4.027589E-01	48
49	2.706386E-03	-2.853576E-01	1.424868E-02	1.135557E-02	-2.853354E-01	-1.282733E-02	54
55	-3.331137E+00	4.231447E-02	-4.165891E-01	9.931253E-02	1.208663E-01	4.676285E-01	60
61	8.410123E-03	-9.139192E-02	-2.577305E-02				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 23				
1	2.433466E+00	-5.395224E-02	1.580620E+00	1.561985E+01	-7.425414E+00	5.777820E+00	6
7	4.055552E+01	-1.399268E+01	7.559492E+00	-4.374040E+01	-5.183141E+01	-2.968808E+00	12
13	-2.547781E-01	-6.400853E-01	-1.702655E+00	2.292729E-01	1.688873E-02	-6.471638E-02	18
19	1.129081E+01	-9.634247E+00	2.077756E-01	-2.377907E+01	8.387277E+01	-1.008851E+01	24
25	-1.286290E+00	-4.933301E+00	-2.401738E-01	-1.149584E+00	1.562286E+00	-1.437097E+00	30
31	8.364024E-03	1.864495E-02	-3.797959E-02	-9.981884E-02	1.358478E-01	7.754966E-02	36
37	-8.652306E-02	3.599330E-02	5.759867E-03	5.556685E-02	1.792111E-01	-1.249762E-01	42
43	3.413318E+00	-4.683034E+00	1.656114E+00	3.491525E+00	-1.291525E-01	-1.212054E-01	48
49	-6.520237E-03	-5.560093E-01	2.223446E-02	1.544921E-02	-5.559934E-01	-2.506962E-02	54
55	1.276539E+00	4.867467E-01	-1.686946E-01	1.791945E-02	-1.245338E-02	7.259128E-02	60
61	-2.274046E-02	7.150069E-02	5.058463E-04				63
			COLUMN 24				
1	2.645894E-01	1.648743E-01	2.448131E-01	9.124410E-01	1.280921E+00	-2.144272E-01	6
7	-4.219793E+00	2.590972E+00	-3.281730E+00	2.736474E+00	3.240632E+00	7.966885E-01	12
13	3.250311E-01	8.626318E-02	7.309840E-01	-8.887467E-02	3.312459E-03	2.771377E-02	18
19	-1.067062E+00	1.538460E+00	4.135767E-01	7.421551E-01	-1.006851E+01	2.757121E+00	24
25	-1.124882E+00	4.535767E-01	2.870489E-01	8.560233E-01	-5.648715E-01	-6.389008E-01	30
31	-7.156794E-03	-3.951706E-03	5.783488E-03	1.243858E-02	-3.294984E-02	-1.123402E-02	36
37	2.193114E-02	-6.903026E-03	-4.637080E-04	-1.465854E-02	-5.972652E-02	4.358383E-02	42
43	-8.200350E-02	1.387066E+00	-1.309600E+00	-3.118517E-01	-1.013297E-01	1.224450E-01	48
49	-1.402859E-03	4.007721E-01	-1.654728E-02	-6.731212E-03	4.007585E-01	1.892703E-02	54
55	5.931954E-01	-1.936728E-01	1.849256E-01	-4.262145E-02	-3.578392E-02	-1.757393E-01	60
61	9.601105E-03	8.218121E-03	8.119610E-03				63
			COLUMN 25				
1	-3.858611E+00	-5.564567E+00	-1.386686E+00	-1.597394E+01	-1.260392E-01	-1.914349E+00	6
7	-7.827033E+00	-1.189817E+00	-4.406877E-01	-1.286010E+01	6.108194E+00	1.026248E+00	12
13	2.619536E-01	2.810053E-02	1.464329E+00	1.618488E-02	-1.401804E-02	5.742457E-02	18
19	-2.783949E+00	-2.744893E+00	-8.973210E-01	9.090043E+00	-1.286290E+00	-1.124982E+00	24
25	2.103264E+01	2.422268E+01	1.216242E+00	-4.023795E-01	1.169158E-01	-7.207143E-02	30
31	1.612507E-02	1.416996E-02	3.041588E-03	-2.146513E-02	1.429230E-02	4.523303E-02	36
37	1.082641E-02	2.297170E-03	2.131611E-02	5.641186E-02	4.813058E-02	-8.607485E-02	42
43	7.128014E-02	-9.468119E-01	2.444939E+00	-2.711965E+00	-3.196738E-04	-4.151558E-01	48
49	-2.899381E-03	1.212539E-01	-3.984038E-03	2.034787E-02	1.212819E-01	4.375625E-03	54
55	-3.277401E+00	5.883653E-03	-4.615972E-01	1.583972E-01	1.338851E-01	5.436930E-01	60
61	1.873089E-02	-8.659412E-02	-2.416540E-02				63
			COLUMN 26				
1	-6.217949E+00	-8.926853E+00	-2.454074E+00	-2.542066E+01	-3.644564E+00	-2.008606E+00	6
7	-1.036248E+00	-1.035028E+01	-4.404207E+00	-3.626813E+01	1.236586E+01	5.851812E+00	12
13	-1.335435E+00	1.986558E-01	1.280683E-01	2.259504E-01	-5.589891E-02	7.825088E-03	18
19	4.830006E+00	-1.280998E+01	1.739549E+00	2.704327E+00	-4.933301E+00	4.535767E-01	24
25	2.422268E+01	8.293478E+01	1.027807E+01	-1.495282E+00	1.704938E+00	-1.413433E+01	30
31	8.109453E-02	3.413532E-02	1.326665E-02	-1.278711E-01	1.474055E-01	1.865745E-01	36
37	-2.941735E-02	9.832293E-03	3.236881E-02	1.416914E-01	2.234534E-01	-2.814194E-01	42
43	4.343000E-01	-7.887103E+00	5.605599E+00	-2.627352E+00	-5.777325E-01	-1.270373E+00	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 26				
49	-1.422041E-02	-4.241852E-01	1.509769E-02	5.423454E-02	-4.241208E-01	-2.159153E-02	54
55	-7.097624E+00	6.504474E-01	-1.051011E+00	3.984739E-01	2.934754E-01	1.366702E+00	60
61	1.125591E-02	-1.007193E-01	-5.347473E-02				63
			COLUMN 27				
1	-6.036383E-01	-7.411427E-01	-2.937996E-01	-2.574770E+00	-1.303578E+00	1.125229E-01	6
7	2.204190E+00	-3.029437E+00	-2.097779E+00	-1.261903E+00	1.080572E+00	1.873655E+00	12
13	-5.608144E-01	7.628203E-02	3.571599E-01	8.406774E-02	-1.586338E-02	1.498813E-02	18
19	6.987461E-01	-1.940294E+00	1.083601E+00	-1.147399E+00	-2.401738E-01	2.870489E-01	24
25	1.216242E+00	1.027807E+01	2.670627E+00	4.598465E-01	5.483231E-01	-4.363772E+00	30
31	2.228077E-02	7.233946E-03	4.286689E-03	-3.329984E-02	4.932142E-02	4.980771E-02	36
37	-1.007227E-02	2.275943E-03	4.381530E-03	1.545192E-02	4.592891E-02	-4.419503E-02	42
43	-4.013039E-01	-1.981131E+00	5.798574E-01	4.863834E-01	-2.690998E-01	-3.212437E-01	48
49	-1.627875E-03	-2.531204E-01	8.010194E-03	6.276555E-03	-2.531129E-01	-1.157158E-02	54
55	-8.721143E-01	2.390227E-01	-1.233133E-01	5.886518E-02	3.762965E-02	2.160578E-01	60
61	-7.773091E-03	9.172973E-03	-6.834518E-03				63
			COLUMN 28				
1	-1.735420E+00	-1.738189E+00	-1.105188E+00	-8.438154E+00	1.368846E-01	-2.199405E+00	6
7	-7.109535E+00	3.323114E-01	-3.871178E+00	2.329895E+00	-1.383734E+01	4.880394E-01	12
13	-1.509726E+00	-9.097820E-01	1.778648E+00	2.682225E-02	6.197394E-02	6.979524E-02	18
19	-1.808476E+01	2.803625E+00	-3.608775E+00	-2.317650E+00	-1.149594E+00	8.560233E-01	24
25	-4.023795E-01	-1.495282E+00	4.598465E-01	6.273513E+01	-1.618447E+00	-4.343305E+00	30
31	1.585489E-02	-7.196350E-04	1.078488E-02	-2.720279E-03	4.229281E-02	2.100703E-02	36
37	2.321482E-03	-3.945697E-04	-6.822223E-03	-1.841987E-02	-8.512782E-02	1.413510E-01	42
43	-4.417715E+00	4.641148E-01	6.810036E+00	-5.016554E+00	1.117349E+00	4.338270E+00	48
49	-5.148553E-03	-4.765763E-02	2.810478E-02	6.709764E-03	-4.765578E-02	2.756198E-02	54
55	-3.221552E-01	-1.288418E-01	-1.145076E-01	2.190241E-01	4.505846E-02	1.057558E-02	60
61	1.448558E-02	-1.130456E-01	8.995944E-03				63
			COLUMN 29				
1	-1.736014E-01	-4.799513E-01	3.874375E-02	-4.670630E-01	-7.249365E-02	1.585031E-01	6
7	1.234610E-01	1.888189E+00	-9.485350E-01	-1.627729E+00	1.612848E+00	-2.000592E+00	12
13	1.943115E-01	-2.455373E-01	9.224313E-01	5.536477E-03	1.202889E-02	3.581982E-02	18
19	-1.107889E+00	-1.301322E+01	-1.585058E+00	1.553852E-01	1.562288E+00	-5.648715E-01	24
25	1.189158E-01	1.704938E+00	5.483231E-01	-1.818447E+00	8.849107E+00	6.879780E+00	30
31	6.490419E-04	1.467385E-03	5.178289E-04	-1.050934E-02	3.378734E-02	1.385583E-02	36
37	7.019745E-04	-1.898839E-04	2.233890E-03	8.486218E-03	4.095933E-02	-2.312158E-02	42
43	8.491857E-01	8.721737E-01	-3.758578E+00	-1.331232E-01	2.739821E-01	2.048735E-01	48
49	-4.746422E-03	3.106478E-01	-9.875777E-03	-5.138933E-04	3.106391E-01	1.093895E-02	54
55	4.446495E-01	-1.880504E-01	1.727475E-01	-6.159584E-03	-2.237417E-02	-1.228752E-01	60
61	9.883403E-03	-8.481108E-03	4.653361E-03				63
			COLUMN 30				
1	1.145140E+00	1.426335E+00	1.154576E+00	4.394856E+00	1.556257E+00	1.055318E+00	6
7	-8.933731E+00	-2.630772E-01	-4.294580E+00	1.188518E+00	4.720366E+00	-2.058442E+01	12
13	8.555689E-01	-3.838348E-01	-8.734532E+00	-1.345304E-01	3.564201E-02	-3.431094E-01	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 30			
19	1.057357E+01	8.285551E+00	-4.033008E+01	2.750336E+00	-1.437097E+00	-6.399008E-01	24
25	-7.207143E-02	-1.413433E+01	-4.363772E+00	-4.343305E+00	6.879780E+00	9.920441E+01	30
31	-6.935454E-03	-1.105780E-02	-2.976446E-03	4.772850E-02	-1.889726E-01	-2.680077E-01	36
37	1.089565E-02	1.634056E-03	-2.329644E-02	1.229201E-02	8.560096E-03	1.075178E-02	42
43	-2.742096E+00	-7.780398E-01	-1.467346E+01	5.590972E+00	-4.064507E+00	-8.822481E+00	48
49	1.830931E-02	3.848695E-01	-6.666768E-02	6.538799E-03	3.849058E-01	-4.170573E-02	54
55	-1.336846E+01	6.430343E-01	-3.919111E-01	5.241715E-01	4.053843E-01	2.238345E+00	60
61	-2.102077E-02	2.672610E-02	-8.232823E-02				63

				COLUMN 31			
1	-1.037040E-02	-1.391135E-02	-1.123180E-02	-5.517260E-02	-5.801068E-03	-3.031475E-03	6
7	6.476937E-02	-3.018777E-02	-3.759279E-02	6.341052E-02	6.250686E-02	6.138734E-02	12
13	-1.009858E-02	-1.350501E-03	3.508446E-02	1.218777E-03	-1.189578E-04	1.384375E-03	18
19	1.808058E-02	-1.062291E-03	1.883924E-02	1.630508E-02	8.364024E-03	-7.156794E-03	24
25	1.612507E-02	8.109453E-02	2.226077E-02	1.584868E-02	6.480419E-04	-6.935454E-03	30
31	4.265349E+01	-1.266756E-02	-1.859188E-02	-4.263585E+01	-3.835264E-02	-4.759794E-02	36
37	1.380008E-02	-1.466227E-04	8.937400E-04	-2.807506E-02	-6.795011E-03	7.848273E-03	42
43	-4.550977E-02	-2.873255E-02	4.228145E-03	-3.088516E-02	-1.825875E-03	-2.035477E-02	48
49	2.604145E-05	-8.537776E-03	2.209985E-04	1.220788E-04	-8.537546E-03	-3.905613E-04	54
55	-4.690268E-02	3.284099E-03	-4.896301E-03	4.964351E-04	1.447682E-03	6.196734E-03	60
61	-4.086418E-05	-7.807566E-04	-3.658416E-04				63

				COLUMN 32			
1	-5.337286E-03	-2.097153E-03	-4.679493E-03	-1.524535E-02	-1.447222E-02	3.586551E-03	6
7	6.378142E-02	-8.580801E-03	-1.144121E-02	-6.358281E-03	-1.223117E-02	2.431961E-02	12
13	1.279720E-03	-1.475919E-03	1.401506E-02	6.672011E-04	-2.668090E-05	5.531932E-04	18
19	-3.180269E-02	-1.249322E-02	-1.117657E-02	-7.337230E-03	1.864495E-02	-3.951706E-03	24
25	1.416995E-02	3.413532E-02	7.233846E-03	-7.196350E-04	1.467385E-03	-1.105780E-02	30
31	-1.266756E-02	4.112725E-03	-9.917748E-04	1.492160E-02	-5.990027E-03	1.012441E-03	36
37	1.334585E-04	6.978940E-04	2.952683E-04	-2.357727E-03	3.376454E-04	-8.017520E-04	42
43	-4.719209E-03	-9.142301E-03	-7.072491E-03	-1.361823E-03	-2.169354E-03	-2.409013E-04	48
49	-4.844158E-05	1.608357E-03	-6.885491E-05	1.098803E-05	1.606297E-03	6.544278E-05	54
55	-9.996058E-04	1.764380E-04	5.163535E-04	-1.544927E-04	-8.183338E-05	-1.307429E-04	60
61	3.738956E-05	1.768908E-04	1.408863E-05				63

				COLUMN 33			
1	-1.903195E-03	-8.119496E-03	-2.889577E-03	-2.998430E-02	1.090820E-02	-9.369020E-03	6
7	1.854448E-02	3.798759E-03	-5.354421E-02	3.175890E-02	6.456799E-02	7.738339E-02	12
13	-9.343763E-03	3.238213E-03	4.836174E-03	6.441388E-04	-1.788809E-04	2.018365E-04	18
19	-1.421921E-02	-1.405801E-02	-7.543745E-03	1.988298E-02	-3.797959E-02	5.783488E-03	24
25	3.041586E-03	1.326665E-02	4.286689E-03	1.078488E-02	5.178289E-04	-2.976446E-03	30
31	-1.859188E-02	-9.917748E-04	2.079508E-03	1.999706E-02	3.079381E-03	-1.264132E-03	36
37	1.010018E-03	-2.353518E-04	-5.432698E-04	-1.135498E-03	-2.268705E-04	6.869373E-04	42
43	-1.853832E-02	-5.985774E-03	-7.283356E-03	-2.238166E-02	-3.156132E-03	-1.067679E-02	48
49	-3.484207E-05	1.905039E-03	-1.267606E-04	2.986439E-05	1.905020E-03	3.559773E-05	54
55	-2.241880E-02	-9.509024E-05	-1.057494E-03	-2.413345E-04	4.685698E-04	2.031465E-04	60
61	1.254215E-04	-1.974238E-04	-1.301264E-04				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 34			
1	4.849279E-04	3.191871E-03	5.603658E-03	-3.178745E-03	8.602713E-02	-4.008040E-02	6
7	-1.637073E-01	1.325206E-02	2.457048E-02	-6.789091E-02	2.164748E-01	-4.284945E-02	12
13	3.530391E-03	-8.548863E-03	-6.214919E-02	1.484598E-04	8.017433E-04	-2.436860E-03	18
19	7.102375E-02	1.116793E-01	-1.257118E-03	3.865808E-02	-9.881894E-02	1.243658E-02	24
25	-2.146513E-02	-1.278711E-01	-3.329984E-02	-2.720279E-03	-1.050934E-02	4.772550E-02	30
31	-4.263585E+01	1.492160E-02	1.999706E-02	4.264884E+01	3.129485E-02	4.201367E-02	36
37	-2.777078E-02	2.153990E-03	-1.228525E-03	1.911278E-02	1.286736E-03	-5.865753E-03	42
43	-4.311727E-02	7.426368E-02	5.941836E-02	-4.491325E-02	1.334192E-02	-2.101200E-02	48
49	4.795189E-04	-1.928577E-02	7.505718E-04	-1.285906E-04	-1.928520E-02	-8.821521E-04	54
55	-5.661085E-02	6.459267E-04	-8.817099E-03	8.487077E-04	2.243727E-03	7.743662E-03	60
61	-3.473272E-04	-2.217240E-03	-5.590603E-04				63

				COLUMN 35			
1	-5.218237E-03	-2.535171E-03	-1.194436E-02	-1.894882E-02	-7.120389E-02	1.876354E-02	6
7	1.031340E-01	-1.861963E-01	-4.862756E-02	1.526758E-01	-1.225095E-01	-6.338386E-02	12
13	-1.646832E-02	-1.277588E-02	9.837783E-02	6.883967E-04	-2.833156E-05	3.856520E-03	18
19	7.232290E-02	-5.941586E-02	1.785471E-01	-1.348281E-02	1.358478E-01	-3.294984E-02	24
25	1.429230E-02	1.474055E-01	4.832142E-02	4.229261E-02	3.378734E-02	-1.889726E-01	30
31	-3.835264E-02	-5.990027E-03	3.079381E-03	3.129485E-02	3.863284E-02	1.429371E-02	36
37	5.104397E-03	3.910237E-04	-2.306282E-04	-1.216636E-03	6.169213E-03	-7.855882E-04	42
43	-3.709993E-02	-1.302253E-01	1.883525E-02	4.218555E-02	-5.019082E-04	-2.700650E-02	48
49	-2.535530E-05	-2.935312E-02	1.003207E-03	4.107625E-04	-2.935249E-02	-1.302688E-03	54
55	-6.131055E-02	1.908412E-02	-9.726831E-03	3.484861E-03	2.519055E-03	1.433451E-02	60
61	-8.278860E-04	4.724088E-04	-5.354423E-04				63

				COLUMN 36			
1	-1.186104E-02	-2.959988E-02	-5.850734E-03	-3.215849E-02	-3.140821E-02	8.473465E-03	6
7	8.384483E-02	-1.191444E-01	-8.869836E-02	7.314108E-02	-2.205805E-01	1.388872E-02	12
13	-4.018042E-03	-1.432311E-03	1.254114E-01	-1.648887E-03	-2.633302E-04	4.895686E-03	18
19	1.007880E-01	-8.973082E-02	1.951104E-01	-1.835558E-03	7.754966E-02	-1.123402E-02	24
25	4.523303E-02	1.885745E-01	4.880771E-02	2.100703E-02	1.385563E-02	-2.880077E-01	30
31	-4.759794E-02	1.012441E-03	-1.264132E-03	4.201367E-02	1.429371E-02	2.038215E-02	36
37	7.335775E-03	7.175774E-04	3.918508E-04	-5.306881E-03	8.945036E-04	-3.904731E-03	42
43	7.508245E-03	-1.053969E-01	-3.847048E-02	2.428098E-02	-1.995671E-02	-9.990352E-03	48
49	-4.677277E-04	1.015669E-02	-5.218974E-04	2.830883E-04	1.015660E-02	4.386045E-04	54
55	-7.455782E-03	6.589581E-03	3.150334E-03	1.024298E-03	-2.176403E-04	1.945662E-03	60
61	2.499692E-04	1.712417E-03	1.833345E-04				63

				COLUMN 37			
1	-1.015698E-02	-1.658274E-02	1.331176E-02	-1.482994E-02	8.018061E-02	-1.993640E-02	6
7	5.081905E-02	4.286558E-02	-4.220170E-02	-7.746242E-02	6.322708E-02	8.491363E-02	12
13	9.786208E-03	1.088418E-03	6.512201E-03	-6.030981E-04	1.473107E-04	2.472988E-04	18
19	-4.098038E-02	1.840246E-03	4.187038E-03	1.524848E-02	-8.852306E-02	2.193114E-02	24
25	1.082841E-02	-2.941735E-02	-1.007227E-02	2.321482E-03	7.019745E-04	1.089565E-02	30
31	1.380008E-02	1.334585E-04	1.010018E-03	-2.777076E-02	6.104397E-03	7.335775E-03	36
37	4.285392E+01	1.252804E-02	-1.851384E-02	-4.263572E+01	3.808756E-02	-4.767556E-02	42
43	1.214886E-03	2.903839E-02	2.183430E-03	-4.843144E-02	1.706963E-04	-1.587156E-02	48

			COLUMN 37				
49	-4.020049E-05	1.011375E-02	-3.903470E-04	8.089342E-05	1.011380E-02	2.709450E-04	54
55	-4.531542E-02	-2.786863E-03	-2.723313E-03	4.012726E-04	1.176485E-03	4.847634E-03	60
61	3.656000E-04	-6.605205E-04	-2.601920E-04				63
			COLUMN 38				
1	6.473865E-04	4.845085E-03	-3.523985E-03	-3.400758E-04	-3.021883E-02	1.636019E-02	6
7	6.783581E-03	-3.654098E-03	1.842878E-02	6.851550E-03	-3.806568E-02	-4.231472E-02	12
13	1.345897E-03	-1.832277E-03	1.929959E-03	-4.529633E-05	2.292470E-05	7.453980E-05	18
19	3.704575E-03	-1.371169E-02	8.294451E-03	-1.413124E-02	3.599330E-02	-6.903026E-03	24
25	2.297170E-03	9.832293E-03	2.275943E-03	-3.945897E-04	-1.898639E-04	1.634056E-03	30
31	-1.466227E-04	6.978940E-04	-2.353518E-04	2.153990E-03	3.910237E-04	7.175774E-04	36
37	1.252804E-02	4.089163E-03	9.778078E-04	-1.511023E-02	-5.826969E-03	-1.004703E-03	42
43	1.246804E-02	-6.946095E-03	1.361248E-04	1.401784E-02	5.877786E-04	5.320579E-03	48
49	-1.687727E-05	-2.728626E-04	2.903010E-05	2.157134E-05	-2.728492E-04	1.065376E-05	54
55	1.217886E-02	8.283370E-06	6.830612E-04	2.490497E-04	-2.425320E-04	-9.611278E-04	60
61	-3.388918E-05	1.285971E-04	6.945307E-05				63
			COLUMN 39				
1	-1.078405E-02	-6.615729E-03	4.434119E-04	-3.810095E-03	1.716208E-02	-1.443278E-02	6
7	6.815619E-02	-1.415621E-02	-5.826641E-03	-4.901715E-02	-8.863666E-03	3.678415E-02	12
13	8.416497E-03	-2.839869E-03	1.732755E-02	5.427827E-04	9.107041E-05	6.792439E-04	18
19	-3.519723E-02	1.552284E-02	-1.227821E-02	-5.864448E-03	5.759967E-03	-4.837060E-04	24
25	2.131611E-02	3.236681E-02	4.381530E-03	-6.822223E-03	2.233890E-03	-2.329644E-02	30
31	8.937400E-04	2.952883E-04	-5.432698E-04	-1.228525E-03	-2.306282E-04	3.918506E-04	36
37	-1.851364E-02	9.778079E-04	2.201422E-03	1.989106E-02	-2.907618E-03	-1.725078E-03	42
43	-1.050944E-02	9.273780E-04	-1.886888E-03	-7.119461E-03	-1.238703E-03	-2.128837E-03	48
49	-7.913146E-06	5.655272E-04	-2.163053E-05	-1.012694E-05	5.654934E-04	9.157148E-06	54
55	-8.548965E-03	6.779804E-04	-2.893122E-04	-8.008884E-05	1.415785E-04	8.268898E-04	60
61	2.770920E-06	8.752014E-05	-3.384800E-05				63
			COLUMN 40				
1	-2.996222E-02	-5.162376E-02	-1.577619E-03	-1.124381E-01	-3.849218E-02	3.489552E-02	6
7	5.149548E-02	3.337208E-02	-7.231030E-02	5.329378E-02	6.915067E-02	-5.149514E-02	12
13	1.364277E-02	1.178294E-02	-3.495308E-03	-6.483169E-04	-8.758878E-04	-1.383020E-04	18
19	4.462506E-02	-1.198503E-01	-6.529347E-03	2.125638E-03	5.566685E-02	-1.465854E-02	24
25	5.641186E-02	1.416914E-01	1.545192E-02	-1.841867E-02	8.486218E-03	1.229201E-02	30
31	-2.807506E-02	-2.357727E-03	-1.135486E-03	1.911278E-02	-1.216636E-03	-5.306681E-03	36
37	-4.263572E+01	-1.511023E-02	1.989106E-02	4.264798E+01	-3.244876E-02	4.324883E-02	42
43	6.238413E-02	-6.320346E-02	4.508325E-02	-5.977836E-02	3.756165E-03	-1.430802E-02	48
49	-2.548387E-04	7.865862E-03	-2.860332E-04	8.038804E-04	7.868752E-03	2.517316E-04	54
55	-7.726908E-02	-3.211109E-05	-1.377928E-02	4.142653E-03	3.466078E-03	1.456539E-02	60
61	6.850201E-04	-2.085273E-03	-6.597257E-04				63
			COLUMN 41				
1	-2.152892E-02	-2.245210E-02	-1.792345E-02	-6.972457E-02	-5.801029E-02	8.751616E-03	6
7	4.282386E-04	-1.557899E-01	1.246506E-01	-1.298552E-02	9.108077E-02	-1.449068E-01	12
13	1.930679E-02	-1.381336E-02	2.607517E-02	3.076874E-03	7.887912E-05	1.034330E-03	18

			COLUMN 41				
19	8.157271E-02	-6.584111E-02	-8.093199E-02	-1.198420E-02	1.792111E-01	-5.972652E-02	24
25	4.813058E-02	2.234534E-01	4.592691E-02	-8.512792E-02	4.085933E-02	8.560986E-03	30
31	-6.795011E-03	3.376454E-04	-2.268705E-04	1.268738E-03	6.189213E-03	9.946036E-04	36
37	3.808756E-02	-5.826969E-03	-2.907818E-03	-3.244876E-02	3.847534E-02	-1.407286E-02	42
43	3.365029E-03	-1.135536E-01	1.188646E-01	8.313277E-04	2.179885E-02	1.456525E-03	48
49	2.149475E-04	-4.141251E-02	1.762639E-03	7.818492E-04	-4.141089E-02	-1.584475E-03	54
55	-6.302369E-02	1.786098E-02	-2.368376E-02	5.104626E-03	4.198582E-03	1.876218E-02	60
61	-8.114720E-04	-1.874508E-03	-8.701604E-04				63
			COLUMN 42				
1	3.400410E-02	6.751528E-02	1.271458E-02	1.028618E-01	9.176250E-03	4.755551E-03	6
7	3.811008E-02	6.441728E-02	-1.132489E-01	1.380409E-01	-6.578216E-02	8.557448E-02	12
13	-4.190745E-02	1.887742E-03	-3.068885E-02	-1.309229E-03	1.609394E-04	-1.197672E-03	18
19	-1.128104E-01	9.825867E-02	1.489371E-01	-2.515088E-03	-1.249762E-01	4.356383E-02	24
25	-8.607485E-02	-2.814194E-01	-4.418503E-02	1.413510E-01	-2.312158E-02	1.075178E-02	30
31	7.848273E-03	-8.017520E-04	8.689373E-04	-5.885753E-03	-7.855882E-04	-3.904731E-03	36
37	-4.787556E-02	-1.004703E-03	-1.725078E-03	4.324883E-02	-1.407286E-02	2.024554E-02	42
43	-5.801567E-02	8.308709E-02	-1.186422E-01	3.844707E-02	-8.842564E-03	-2.245754E-02	48
49	1.553237E-04	5.222984E-03	-3.392809E-04	-7.748952E-04	5.221950E-03	-6.084628E-05	54
55	2.071070E-02	-4.977181E-03	1.593491E-02	-3.280450E-03	-2.288506E-03	-9.048877E-03	60
61	-3.140002E-04	1.524819E-03	3.476567E-04				63
			COLUMN 43				
1	-3.044275E+00	-3.813335E+00	-8.501997E-01	-1.491918E+01	1.727234E+00	-2.237392E+00	6
7	-3.648783E+01	7.688842E+00	7.238938E+00	1.407457E+00	-2.151576E+01	-9.598391E-01	12
13	-6.318125E-01	3.606256E-01	-2.938747E+00	3.831482E-03	-1.583302E-02	-1.145387E-01	18
19	-3.582130E+01	-1.212770E+01	3.676654E+00	-1.814387E+00	3.413316E+00	-9.200350E-02	24
25	7.128014E-02	4.343000E-01	-4.013039E-01	-4.417715E+00	8.491957E-01	-2.742096E+00	30
31	-4.550977E-02	-4.719208E-03	-1.853832E-02	-4.311727E-02	-3.709993E-02	7.508245E-03	36
37	1.214886E-03	1.246804E-02	-1.050944E-02	5.235413E-02	3.365029E-03	-5.601567E-02	42
43	2.522574E+02	1.831351E+01	2.075924E+00	-5.990839E+01	-3.318470E+00	-6.808044E+00	48
49	3.843988E-01	-5.834523E+00	1.398451E-01	-1.355750E-01	-5.834139E+00	-1.246198E-01	54
55	-7.735616E+01	-3.591227E+00	-5.813489E+00	3.452178E+00	2.829813E+00	1.031418E+01	60
61	2.434457E-02	-2.470002E+00	-4.846501E-01				63
			COLUMN 44				
1	1.199287E+00	2.748620E+00	3.173797E-01	3.504872E+00	2.442299E+00	-1.163038E+00	6
7	-6.902893E+00	8.927879E-01	2.294349E+00	-1.102387E+00	-1.153916E+01	1.824312E+00	12
13	-1.183221E-01	-9.803777E-02	-2.564594E+00	-2.175515E-02	2.873607E-02	-1.004807E-01	18
19	3.434892E+00	-8.784645E+00	4.702976E-01	-6.813649E-03	-4.883034E+00	1.387068E+00	24
25	-9.468119E-01	-7.687103E+00	-1.981131E+00	4.641148E-01	8.721737E-01	-7.780398E-01	30
31	-2.873255E-02	-9.142301E-03	-5.985774E-03	7.426388E-02	-1.302253E-01	-1.053969E-01	36
37	2.903439E-02	-6.948095E-03	9.273780E-04	-6.320346E-02	-1.135636E-01	8.308708E-02	42
43	1.831351E+01	2.200220E+01	8.125147E-01	-3.104280E+00	-1.884128E+00	-7.788822E-01	48
49	1.524047E-01	-2.990838E+00	7.863976E-02	-1.658773E-01	-2.990862E+00	-8.304268E-02	54
55	-4.244151E+00	1.273838E+00	4.170353E-03	7.322175E-02	1.100009E-01	2.578497E-01	60
61	-1.057736E-01	-8.960424E-02	3.021780E-02				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 45			
1	-1.038336E+00	-2.268649E+00	3.229796E-01	-3.336402E+00	5.264319E-01	9.356398E-01	6
7	-5.175782E+00	3.284398E+00	-9.796959E-02	-3.811082E+00	1.338900E+01	-8.485453E+00	12
13	1.298645E+00	-3.124001E-01	1.081069E-01	-3.049226E-02	1.719588E-02	3.395630E-03	18
19	4.925230E+00	-2.481539E+00	2.670874E+00	2.299710E+00	1.656114E+00	-1.309600E+00	24
25	2.444939E+00	5.605599E+00	5.798574E-01	6.810036E+00	-3.756578E+00	-1.467346E+01	30
31	4.228145E-03	-7.072491E-03	-7.283356E-03	5.941836E-02	1.883525E-03	-3.647048E-02	36
37	2.183430E-03	1.361248E-04	-1.986989E-03	4.506325E-02	1.188646E-01	-1.166422E-01	42
43	2.075924E+00	8.125147E-01	2.793837E+01	-4.820158E+00	5.773593E+00	-8.407945E+00	48
49	3.563307E-02	-2.076995E+00	4.868750E-02	8.386510E-02	-2.076802E+00	-1.115252E-01	54
55	-1.918079E+01	-8.773923E-01	-1.958600E+00	-5.308431E-02	7.493636E-01	2.813189E+00	60
61	1.591683E-01	-8.827014E-01	-2.341402E-01				63
			COLUMN 46			
1	-3.195784E+00	-4.544492E+00	-1.142966E+00	-1.523030E+01	-9.575417E-01	-1.555564E+00	6
7	-3.356336E+01	2.995849E+00	9.584881E+00	3.143371E-01	-1.480716E+01	9.328374E-01	12
13	-1.358656E+00	-4.063670E-01	7.879482E-01	9.154153E-02	2.361252E-02	3.174519E-02	18
19	-5.277087E+01	-1.033917E+00	3.122942E+00	-3.186588E+00	3.491525E+00	-3.118517E-01	24
25	-2.711965E+00	-2.627352E+00	4.863834E-01	-5.016554E+00	-1.331232E-01	5.580972E+00	30
31	-3.068516E-02	-1.361923E-03	-2.236166E-02	-4.491325E-02	4.218555E-02	2.428096E-02	36
37	-4.843144E-02	1.401784E-02	-7.119461E-03	-5.977635E-02	8.313277E-04	3.844707E-02	42
43	-5.990839E+01	-3.104280E+00	-4.820158E+00	4.786309E+02	3.093435E+00	3.128446E+01	48
49	1.163194E-01	1.278647E+00	-1.496741E-01	1.736608E-01	1.278035E+00	-1.449029E-01	54
55	-2.701694E+02	-3.297093E-01	-4.557319E+01	-1.786739E+01	3.738694E+00	2.986940E+00	60
61	9.637412E-01	-3.125438E+00	-1.244228E+00				63
			COLUMN 47			
1	3.205340E-01	6.591471E-01	1.495962E-01	1.076363E+00	3.766806E-01	5.229427E-02	6
7	-1.852888E+00	2.472860E-01	8.222201E-01	4.293497E-02	8.108616E-01	-1.194789E+00	12
13	1.494461E-01	-5.978458E-02	-6.988559E-01	-3.230789E-03	3.158792E-03	-2.741201E-02	18
19	3.879755E+00	-2.886529E+00	1.058883E+00	4.368973E-01	-1.291525E-01	-1.013297E-01	24
25	-3.196738E-04	-5.777325E-01	-2.690988E-01	1.117349E+00	2.738821E-01	-4.064507E+00	30
31	-1.825875E-03	-2.159354E-03	-3.158132E-03	1.334192E-02	-5.019082E-04	-1.995671E-02	36
37	1.706963E-04	5.877786E-04	-1.238703E-03	3.756165E-03	2.179885E-02	-8.842564E-03	42
43	-3.318470E+00	-1.684128E+00	5.773593E+00	3.093435E+00	1.154432E+01	-6.782495E-01	48
49	-1.593189E-02	-1.903303E+00	-1.766250E-02	5.269961E-02	-1.803240E+00	1.151184E-02	54
55	-5.559932E+00	-5.004300E+00	-2.020580E+00	-7.796201E-02	-2.384745E-02	1.487312E+00	60
61	-3.175358E-01	1.080527E+00	-2.489105E-01				63
			COLUMN 48			
1	-7.914856E-01	-1.134484E+00	-1.808731E-01	-3.941331E+00	-1.426576E-01	-1.758265E-01	6
7	-1.285861E+01	8.480085E-01	5.251574E+00	4.505465E-01	-1.454791E-01	7.845255E-01	12
13	-1.489832E-01	1.648936E-01	-8.021335E-01	5.641082E-03	-7.884075E-03	-3.119788E-02	18
19	2.489188E+00	1.235517E+00	-1.354362E+00	-4.027589E-01	-1.212054E-01	1.224450E-01	24
25	-4.151556E-01	-1.270373E+00	-3.212437E-01	4.338270E+00	2.048735E-01	-8.822491E+00	30
31	-2.035477E-02	-2.409013E-04	-1.057679E-02	-2.101200E-02	-2.700850E-02	-9.990352E-03	36
37	-1.587156E-02	5.320578E-03	-2.128837E-03	-1.430802E-02	1.456525E-03	-2.245754E-02	42
43	-6.608044E+00	-7.786822E-01	-8.407945E+00	3.128446E+01	-6.792495E-01	3.435907E+01	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 48			
49	-3.254721E-02	5.422396E-01	1.377501E-01	-4.564259E-02	5.421094E-01	1.820016E-01	54
55	1.108498E+00	7.554719E-01	-9.454251E+00	-1.405285E+01	-6.274550E-01	-1.118724E+01	60
61	2.916895E-01	4.045415E-02	-5.455076E-02				63
			COLUMN 49			
1	-3.783638E-03	-3.748704E-02	-1.189480E-03	-1.920228E-02	2.876321E-03	-3.512500E-03	6
7	-4.713454E-02	1.478360E-03	6.281672E-03	-6.497524E-05	3.276301E-02	-2.393460E-02	12
13	-5.184447E-04	-4.728533E-03	-1.375102E-03	2.241390E-04	3.098188E-04	-5.435846E-05	18
19	-1.447855E-02	-1.046230E-04	4.204408E-03	2.706385E-03	-6.520237E-03	-1.402859E-03	24
25	-2.899381E-03	-1.422041E-02	-1.527875E-03	-5.148553E-03	-4.746422E-03	1.830831E-02	30
31	2.604145E-05	-4.644156E-05	-3.464207E-05	4.795188E-04	-2.535530E-05	-4.677277E-04	36
37	-4.020049E-05	-1.687727E-05	-7.913146E-06	-2.549387E-04	2.149475E-04	1.553237E-04	42
43	3.843866E-01	1.524047E-01	3.563307E-02	1.163194E-01	-1.593169E-02	-3.254721E-02	48
49	2.072014E-02	-7.285997E-02	2.963408E-03	-1.350830E-02	-7.269449E-02	-3.183631E-03	54
55	-5.237891E-01	2.831480E-02	-1.421074E-01	8.227449E-02	3.914307E-02	1.436262E-01	60
61	-9.150596E-03	-2.361220E-02	7.188807E-05				63
			COLUMN 50			
1	2.491611E-01	3.996716E-01	7.109041E-02	1.006014E+00	3.070160E-01	-1.005877E-01	6
7	1.002755E+00	4.513592E-01	-1.700628E-01	8.831041E-02	-4.209244E+00	1.989857E+00	12
13	-1.914287E-02	2.855039E-01	-3.847250E-01	-2.016635E-02	-1.316229E-02	-1.505509E-02	18
19	5.514000E-01	-2.249272E+00	-5.839896E-01	-2.853576E-01	-5.580083E-01	4.007721E-01	24
25	1.212538E-01	-4.241852E-01	-2.531204E-01	-4.785763E-02	3.106478E-01	3.848695E-01	30
31	-8.537776E-03	1.608357E-03	1.905039E-03	-1.928577E-02	-2.835312E-02	1.015689E-02	36
37	1.011375E-02	-2.728626E-04	5.655272E-04	7.885862E-03	-4.141251E-02	5.222984E-03	42
43	-5.834523E+00	-2.980638E+00	-2.076995E+00	1.278647E+00	-1.903303E+00	5.422396E-01	48
49	-7.265997E-02	2.688905E+01	-7.032441E-02	4.384415E-02	-1.783887E+01	7.134730E-02	54
55	6.858662E+00	-2.087819E+00	1.915698E+00	-6.492572E-01	-2.552443E-01	-1.711747E+00	60
61	2.369822E-01	-4.408974E-01	2.919115E-03				63
			COLUMN 51			
1	-7.241451E-03	-1.015053E-02	-1.152242E-03	-3.282023E-02	-6.891635E-03	4.042032E-03	6
7	-8.385857E-02	-5.987475E-03	2.841009E-02	-1.139171E-02	1.599058E-01	-8.354314E-02	12
13	2.957894E-03	-1.150857E-02	1.019834E-02	7.378985E-04	5.450912E-04	3.980444E-04	18
19	5.693489E-02	4.018154E-02	2.146387E-02	1.424688E-02	2.223446E-02	-1.654728E-02	24
25	-3.984038E-03	1.509769E-02	8.010184E-03	2.810478E-02	-9.875777E-03	-6.866766E-02	30
31	2.209885E-04	-6.885491E-05	-1.267606E-04	7.505718E-04	1.003207E-03	-6.218974E-04	36
37	-3.803470E-04	2.903010E-05	-2.163053E-05	-2.860332E-04	1.762839E-03	-3.392809E-04	42
43	1.398451E-01	7.863976E-02	4.688750E-02	-1.496741E-01	-1.766250E-02	1.377501E-01	48
49	2.963408E-03	-7.032441E-02	8.680522E-03	-2.088935E-03	-7.032292E-02	-6.404884E-03	54
55	-7.522257E-02	3.224714E-02	-9.289530E-02	-3.962690E-02	4.585439E-03	1.398112E-03	60
61	-1.140879E-02	1.781938E-02	-1.719232E-03				63
			COLUMN 52			
1	-4.647151E-03	-8.670719E-03	1.337828E-04	-1.317845E-02	2.523263E-03	2.344088E-03	6
7	2.183839E-02	1.508532E-02	-2.377817E-02	6.898856E-03	7.810146E-02	-3.047835E-02	12
13	5.305198E-03	1.388034E-03	-1.072667E-03	-2.249031E-04	-1.687282E-04	-4.447887E-05	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 52			
19	1.759858E-01	-2.678613E-02	7.785382E-03	1.135557E-02	1.544921E-02	-6.731212E-03	24
25	2.034787E-02	5.423454E-02	6.276555E-03	6.709754E-03	-5.138933E-04	6.538799E-03	30
31	1.220796E-04	1.088803E-05	2.986439E-05	-1.285906E-04	4.107625E-04	2.930663E-04	36
37	8.089342E-05	2.157134E-05	-1.012694E-05	8.038804E-04	7.619492E-04	-7.748852E-04	42
43	-1.355750E-01	-1.656773E-01	8.388510E-02	1.736808E-01	5.269961E-02	-4.564259E-02	48
49	-1.350830E-02	4.388415E-02	-2.098935E-03	2.252931E-02	4.405288E-02	1.745858E-03	54
55	-4.258723E-01	-4.001212E-02	-1.391057E-01	6.808784E-02	3.513205E-02	1.498730E-01	60
61	1.222121E-02	-3.059191E-02	-8.947998E-03				63

				COLUMN 53			
1	2.491457E-01	3.996490E-01	7.108819E-02	1.005954E+00	3.070246E-01	-1.005903E-01	6
7	1.002698E+00	4.513877E-01	-1.700873E-01	8.631161E-02	-4.209069E+00	1.969767E+00	12
13	-1.913545E-02	2.854984E-01	-3.847297E-01	-2.016632E-02	-1.316205E-02	-1.505528E-02	18
19	5.516445E-01	-2.249317E+00	-5.939794E-01	-2.853354E-01	-5.559934E-01	4.007585E-01	24
25	1.212819E-01	-4.241206E-01	-2.531129E-01	-4.765578E-02	3.106391E-01	3.849068E-01	30
31	-8.537546E-03	1.608287E-03	1.905020E-03	-1.928520E-02	-2.835249E-02	1.015560E-02	36
37	1.011380E-02	-2.728492E-04	5.654934E-04	7.886752E-03	-4.141089E-02	5.221850E-03	42
43	-5.834139E+00	-2.990662E+00	-2.076802E+00	1.279035E+00	-1.902340E+00	5.421094E-01	48
49	-7.269448E-02	-1.783867E+01	-7.032292E-02	4.405268E-02	2.698896E+01	7.134497E-02	54
55	6.554954E+00	-2.087938E+00	1.915226E+00	-6.490090E-01	-2.551178E-01	-1.711247E+00	60
61	2.369876E-01	-4.407896E-01	2.903692E-03				63

				COLUMN 54			
1	2.116832E-03	2.695136E-03	6.747322E-04	7.160299E-03	6.829140E-03	-3.752603E-03	6
7	-1.674961E-02	1.344385E-02	1.594754E-02	1.465159E-02	-1.282688E-01	8.334935E-02	12
13	-2.100966E-03	1.327410E-02	-2.015878E-02	-7.738556E-04	-6.362935E-04	-7.872439E-04	18
19	4.530720E-02	-2.982564E-02	-4.185067E-02	-1.282733E-02	-2.606962E-02	1.892703E-02	24
25	4.375625E-03	-2.159153E-02	-1.157156E-02	2.758198E-02	1.093995E-02	-4.170573E-02	30
31	-3.805613E-04	6.544278E-05	3.559773E-05	-8.821521E-04	-1.302688E-03	4.386045E-04	36
37	2.709450E-04	1.065378E-05	9.157148E-06	2.517316E-04	-1.584475E-03	-6.064628E-05	42
43	-1.246188E-01	-8.304256E-02	-1.115252E-01	-1.449028E-01	1.151184E-02	1.820016E-01	48
49	-3.183631E-03	7.134730E-02	-6.404864E-03	1.745858E-03	7.134497E-02	9.895500E-03	54
55	4.131473E-01	-2.319037E-02	4.143132E-02	-7.949950E-02	-1.097100E-02	-1.158347E-01	60
61	1.321236E-02	-1.792996E-02	2.941952E-03				63

				COLUMN 55			
1	-2.545322E+00	-3.549678E+00	-9.401150E-01	-1.270241E+01	-9.771580E-01	-1.310295E+00	6
7	-3.322528E+01	1.031241E+00	1.167670E+01	2.567177E+00	-1.816236E+01	4.198823E+00	12
13	-1.453537E+00	4.274857E-01	-2.075598E+00	5.568577E-02	-1.899437E-02	-8.007885E-02	18
19	-6.035873E+01	2.612601E+00	-5.245729E-01	-3.331137E+00	1.276539E+00	5.931954E-01	24
25	-3.277401E+00	-7.097624E+00	-8.721143E-01	-3.221552E+01	4.446485E-01	-1.335646E+01	30
31	-4.690268E-02	-9.996058E-04	-2.241980E-02	-5.661085E-02	-6.131055E-02	-7.455782E-03	36
37	-4.531542E-02	1.217885E-02	-8.546985E-03	-7.726908E-02	-6.302369E-02	2.071070E-02	42
43	-7.735618E+01	-4.244151E+00	-1.918079E+01	-2.701694E+02	-5.559932E+00	1.108498E+00	48
49	-5.237881E-01	6.656662E+00	-7.522257E-02	-4.258723E-01	6.654954E+00	4.131473E-01	54
55	5.119942E+02	4.754483E+00	9.122854E+01	-2.698784E+01	-1.373916E+01	-7.309400E+01	60
61	-9.745990E-01	8.884845E+00	2.420084E+00				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

				COLUMN 56			
1	-6.196088E-02	-1.328654E-01	-1.910955E-02	-1.888945E-01	-1.317269E-01	5.604021E-02	6
7	3.594730E-01	9.475871E-02	-1.999939E-01	-2.617489E-01	8.765011E-01	-5.855993E-01	12
13	2.815798E-02	-1.129705E-01	4.433718E-01	7.627377E-03	4.952941E-03	1.733491E-02	18
19	-1.230344E-02	1.537338E+00	3.576434E-02	4.231447E-02	4.867467E-01	-1.936728E-01	24
25	5.883653E-03	6.604474E-01	2.380227E-01	-1.286418E-01	-1.880504E-01	6.430343E-01	30
31	3.284099E-03	1.764380E-04	-9.508024E-05	6.459267E-04	1.908412E-02	6.688581E-03	36
37	-2.766663E-03	8.283370E-06	6.778804E-04	-3.211109E-05	1.786088E-02	-4.977181E-03	42
43	-3.591227E+00	1.273838E+00	-8.773923E-01	-3.297093E-01	-5.004300E+00	7.554719E-01	48
49	2.931480E-02	-2.087919E+00	3.224714E-02	-4.001212E-02	-2.087938E+00	-2.319037E-02	54
55	4.754483E+00	6.488494E+00	2.759285E+00	-1.762367E+00	5.284000E-01	-3.393783E+00	60
61	1.231913E-02	-1.104507E+00	2.889670E-01				63

				COLUMN 57			
1	2.058874E-02	4.517072E-02	-3.025880E-02	-7.079568E-02	-1.385984E-01	-5.272791E-02	6
7	-1.210652E+00	-2.698335E-01	8.820988E-01	1.175832E-01	-2.733620E+00	1.258043E+00	12
13	-1.648174E-01	7.358149E-02	-1.253293E-02	2.315988E-03	-3.004325E-03	-3.849728E-04	18
19	-4.649780E+00	4.006478E-01	-1.555389E-02	-4.165881E-01	-1.886946E-01	1.849256E-01	24
25	-4.615872E-01	-1.051011E+00	-1.233133E-01	-1.145078E-01	1.727475E-01	-3.919111E-01	30
31	-4.696301E-03	5.183535E-04	-1.057494E-03	-8.817089E-03	-9.726631E-03	3.150334E-03	36
37	-2.723313E-03	6.830612E-04	-2.893122E-04	-1.377928E-02	-2.389376E-02	1.593491E-02	42
43	-5.813489E+00	4.170353E-03	-1.958800E+00	-4.557319E+01	-2.020580E+00	-9.454251E+00	48
49	-1.421074E-01	1.915698E+00	-9.288530E-02	-1.391057E-01	1.915228E+00	4.143132E-02	54
55	9.122854E+01	2.759285E+00	6.883353E+01	-2.929043E+01	-6.331431E+00	-5.985634E+01	60
61	-4.404366E-01	2.611028E+00	7.539868E-01				63

				COLUMN 58			
1	-7.150974E-02	-1.087408E-01	-7.889288E-03	-2.801418E-01	4.468178E-02	-7.967904E-03	6
7	-3.547268E-01	1.804974E-01	-2.491373E-02	-4.952580E-02	9.102783E-01	-2.631397E-01	12
13	3.847275E-02	-2.458165E-02	6.449922E-02	-8.452751E-04	1.142485E-03	2.491985E-03	18
19	3.178133E+00	-3.461760E-02	1.233042E-01	8.931253E-02	1.791945E-02	-4.262145E-02	24
25	1.643972E-01	3.984739E-01	5.986518E-02	2.190241E-01	-6.159584E-03	5.241715E-01	30
31	4.984351E-04	-1.544927E-04	-2.413345E-04	8.487077E-04	3.484861E-03	1.024289E-03	36
37	4.012728E-04	2.490497E-04	-8.008884E-05	4.142653E-03	5.104826E-03	-3.260450E-03	42
43	3.452178E+00	7.322175E-02	-5.306431E-02	-1.786739E+01	-7.796201E-02	-1.405285E+01	48
49	8.227449E-02	-6.492572E-01	-3.862690E-02	6.608784E-02	-6.490090E-01	-7.849950E-02	54
55	-2.698784E+01	-1.762367E+00	-2.929043E+01	3.801409E+01	-3.880853E+00	4.271838E+01	60
61	-1.661747E+00	6.319885E+00	3.719251E-01				63

				COLUMN 59			
1	3.025805E-02	3.978550E-02	1.812538E-02	1.819300E-01	4.040369E-02	2.612202E-02	6
7	6.520824E-01	3.312053E-02	-3.059174E-01	-6.143206E-02	7.800885E-01	-2.484032E-01	12
13	4.862286E-02	-1.964529E-02	4.523450E-02	-1.412964E-03	8.697270E-04	1.733346E-03	18
19	2.140659E+00	-1.149444E-01	4.775503E-02	1.206883E-01	-1.245338E-02	-3.576392E-02	24
25	1.333851E-01	2.934754E-01	3.782965E-02	4.605846E-02	-2.237417E-02	4.053843E-01	30
31	1.447662E-03	-8.183338E-05	4.685688E-04	2.243727E-03	2.519055E-03	-2.178403E-04	36
37	1.178485E-03	-2.425320E-04	1.415785E-04	3.466078E-03	4.188582E-03	-2.288508E-03	42
43	2.828613E+00	1.100008E-01	7.493636E-01	3.738694E+00	-2.384748E-02	-8.274550E-01	48

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 59			
49	3.914307E-02	-2.552443E-01	4.585439E-03	3.513205E-02	-2.551178E-01	-1.097100E-02	54
55	-1.373916E+01	5.284000E-01	-6.331431E+00	-3.680853E+00	2.186554E+02	2.534985E+00	60
61	6.637644E+00	-2.189432E+02	3.691944E+00				63
			COLUMN 60			
1	1.272333E-01	1.808154E-01	7.317329E-02	7.710003E-01	1.537651E-01	1.087557E-01	6
7	2.840459E+00	2.219130E-01	-1.330019E+00	-3.674597E-01	2.988110E+00	-1.030678E+00	12
13	2.011167E-01	-1.012630E-01	3.206353E-01	-4.580801E-03	4.571362E-03	1.239189E-02	18
19	8.513271E+00	-5.602484E-01	2.344543E-01	4.676295E-01	7.259128E-02	-1.757393E-01	24
25	5.436930E-01	1.366702E+00	2.160578E-01	1.057556E-02	-1.228752E-01	2.238345E+00	30
31	6.196734E-03	-1.307428E-04	2.031465E-03	7.743662E-03	1.433451E-02	1.945662E-03	36
37	4.847634E-03	-9.611278E-04	8.268898E-04	1.456539E-02	1.876218E-02	-9.048877E-03	42
43	1.031418E+01	2.576497E-01	2.813189E+00	2.986940E+00	1.417312E+00	-1.118724E+01	48
49	1.438262E-01	-1.711747E+00	1.398112E-03	1.496730E-01	-1.711247E+00	-1.158347E-01	54
55	-7.309400E+01	-3.393783E+00	-5.985634E+01	4.271838E+01	2.534985E+00	6.887758E+01	60
61	2.885058E-01	1.674510E+00	-1.195849E+00				63
			COLUMN 61			
1	9.492839E-03	1.285991E-02	3.704265E-03	4.741528E-02	8.153483E-03	2.802151E-03	6
7	1.202181E-01	-2.539111E-03	-4.039805E-02	1.826591E-02	-8.864966E-03	3.553674E-02	12
13	4.010428E-03	1.058747E-02	-1.945162E-02	-8.751410E-04	-5.734905E-04	-7.634738E-04	18
19	2.032474E-01	-2.653557E-02	-1.840176E-02	6.410123E-03	-2.274046E-02	9.601105E-03	24
25	1.873089E-02	1.125591E-02	-7.773091E-03	1.448556E-02	9.883403E-03	-2.102077E-02	30
31	-4.086418E-05	3.736956E-05	1.254215E-04	-3.473272E-04	-8.278880E-04	2.489692E-04	36
37	3.656000E-04	-3.388918E-05	2.770920E-06	6.850201E-04	-8.114720E-04	-3.140002E-04	42
43	2.434457E-02	-1.057736E-01	1.591683E-01	9.637412E-01	-3.175358E-01	2.916895E-01	48
49	-9.150596E-03	2.369822E-01	-1.140879E-02	1.222121E-02	2.369876E-01	1.321236E-02	54
55	-9.745990E-01	1.231913E-02	-4.404366E-01	-1.661747E+00	6.637644E+00	2.885058E-01	60
61	1.230224E+00	-6.717620E+00	-2.446281E-01				63
			COLUMN 62			
1	-1.313763E-02	-2.045385E-02	-1.105243E-02	-8.175835E-02	-3.088143E-02	-1.516198E-02	6
7	-2.780759E-01	2.659082E-02	1.395549E-01	-2.920958E-02	-6.240938E-01	1.605148E-01	12
13	-2.908721E-02	1.515124E-03	4.638987E-02	1.508823E-03	1.105098E-05	1.835626E-03	18
19	-1.516148E+00	6.505752E-02	-3.899718E-02	-9.139192E-02	7.150069E-02	8.218121E-03	24
25	-8.659412E-02	-1.007183E-01	9.172973E-03	-1.130456E-01	-8.481108E-03	2.872610E-02	30
31	-7.807566E-04	1.768908E-04	-1.974238E-04	-2.217240E-03	4.724088E-04	1.712417E-03	36
37	-6.805205E-04	1.285971E-04	8.752014E-05	-2.085273E-03	-1.874506E-03	1.524819E-03	42
43	-2.470002E+00	-9.860424E-02	-8.827014E-01	-3.125438E+00	1.080527E+00	4.045415E-02	48
49	-2.361220E-02	-4.406974E-01	1.781938E-02	-3.059191E-02	-4.407896E-01	-1.792996E-02	54
55	8.884845E+00	-1.104507E+00	2.611028E+00	6.319986E+00	-2.189432E+02	1.674510E+00	60
61	-6.717620E+00	2.199749E+02	-3.773512E+00				63
			COLUMN 63			
1	-1.273842E-02	-1.798462E-02	-5.373780E-03	-6.616116E-02	-7.417683E-03	-7.729718E-03	6
7	-1.804740E-01	3.281931E-03	7.728069E-02	1.400612E-02	-1.482190E-01	5.441388E-02	12
13	-1.040425E-02	4.354106E-03	-8.581677E-03	2.636256E-04	-1.818907E-04	-3.282507E-04	18

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... BAA

			COLUMN 63				
19	-3.390685E-01	5.917356E-02	-1.454740E-02	-2.577305E-02	5.058463E-04	8.119610E-03	24
25	-2.416540E-02	-5.347473E-02	-6.834516E-03	8.985944E-03	4.653381E-03	-8.232823E-02	30
31	-3.658418E-04	1.408863E-05	-1.301264E-04	-5.590803E-04	-5.354423E-04	1.633345E-04	36
37	-2.601920E-04	6.945307E-05	-3.384800E-05	-6.597257E-04	-8.701604E-04	3.476567E-04	42
43	-4.846501E-01	3.021780E-02	-2.341402E-01	-1.244228E+00	-2.489105E-01	-5.455078E-02	48
49	7.168807E-05	2.919115E-03	-1.719232E-03	-8.947998E-03	2.903592E-03	2.941952E-03	54
55	2.420084E+00	2.889670E-01	7.539868E-01	3.719251E-01	3.691944E+00	-1.195849E+00	60
61	-2.446281E-01	-3.773512E+00	7.148917E-01				63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

C O M P L E X E I G E N V A L U E A N A L Y S I S S U M M A R Y (INVERSE POWER WITH SHIFTS)

NUMBER OF EIGENVALUES EXTRACTED	12
NUMBER OF STARTING POINTS USED	1
NUMBER OF STARTING POINT OR SHIFT POINT MOVES	0
TOTAL NUMBER OF TRIANGULAR DECOMPOSITIONS	26
TOTAL NUMBER OF VECTOR ITERATIONS	257
REASON FOR TERMINATION	8

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

C O M P L E X E I G E N V A L U E A N A L Y S I S S U M M A R Y (INVERSE POWER WITH SHIFTS)

NUMBER OF EIGENVALUES EXTRACTED	19
NUMBER OF STARTING POINTS USED	1
NUMBER OF STARTING POINT OR SHIFT POINT MOVES	0
TOTAL NUMBER OF TRIANGULAR DECOMPOSITIONS	8
TOTAL NUMBER OF VECTOR ITERATIONS	85
REASON FOR TERMINATION	7

C O M P L E X E I G E N V A L U E A N A L Y S I S S U M M A R Y (INVERSE POWER WITH SHIFTS)

NUMBER OF EIGENVALUES EXTRACTED	26
NUMBER OF STARTING POINTS USED	1
NUMBER OF STARTING POINT OR SHIFT POINT MOVES	0
TOTAL NUMBER OF TRIANGULAR DECOMPOSITIONS	11
TOTAL NUMBER OF VECTOR ITERATIONS	104
REASON FOR TERMINATION	7

C O M P L E X E I G E N V A L U E A N A L Y S I S S U M M A R Y (INVERSE POWER WITH SHIFTS)

NUMBER OF EIGENVALUES EXTRACTED	30
NUMBER OF STARTING POINTS USED	1
NUMBER OF STARTING POINT OR SHIFT POINT MOVES	0
TOTAL NUMBER OF TRIANGULAR DECOMPOSITIONS	5
TOTAL NUMBER OF VECTOR ITERATIONS	57
REASON FOR TERMINATION	7

C O M P L E X E I G E N V A L U E A N A L Y S I S S U M M A R Y (INVERSE POWER WITH SHIFTS)

NUMBER OF EIGENVALUES EXTRACTED	33
NUMBER OF STARTING POINTS USED	1
NUMBER OF STARTING POINT OR SHIFT POINT MOVES	0
TOTAL NUMBER OF TRIANGULAR DECOMPOSITIONS	5
TOTAL NUMBER OF VECTOR ITERATIONS	37
REASON FOR TERMINATION	7

C O M P L E X E I G E N V A L U E A N A L Y S I S S U M M A R Y (INVERSE POWER WITH SHIFTS)

NUMBER OF EIGENVALUES EXTRACTED	34
NUMBER OF STARTING POINTS USED	1
NUMBER OF STARTING POINT OR SHIFT POINT MOVES	0
TOTAL NUMBER OF TRIANGULAR DECOMPOSITIONS	2
TOTAL NUMBER OF VECTOR ITERATIONS	13
REASON FOR TERMINATION	7

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

C O M P L E X E I G E N V A L U E A N A L Y S I S S U M M A R Y (INVERSE POWER WITH SHIFTS)

NUMBER OF EIGENVALUES EXTRACTED	35
NUMBER OF STARTING POINTS USED	1
NUMBER OF STARTING POINT OR SHIFT POINT MOVES	0
TOTAL NUMBER OF TRIANGULAR DECOMPOSITIONS	3
TOTAL NUMBER OF VECTOR ITERATIONS	18
REASON FOR TERMINATION	7

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

C O M P L E X E I G E N V A L U E S U M M A R Y

ROOT NO.	EXTRACTION ORDER	EIGENVALUE (REAL)	EIGENVALUE (IMAG)	FREQUENCY (CYCLES)	DAMPING COEFFICIENT
1	1	-1.199085E-02	-2.387042E-12	0.0	0.0
2	2	-4.271184E-03	-2.531390E-10	0.0	0.0
3	5	-1.500943E-03	-1.678274E-02	2.671056E-03	1.788674E-01
4	6	-5.868273E-03	-2.339854E-02	3.723994E-03	5.015930E-01
5	11	-1.092172E-02	-1.262680E-01	2.009618E-02	1.729926E-01
6	8	-3.863843E-02	-1.481380E-01	2.357689E-02	5.216277E-01
7	12	-8.303528E-03	-6.335589E-01	1.008337E-01	2.621241E-02
8	14	-2.730956E-02	-1.987510E+01	3.163220E+00	2.748119E-03
9	13	-1.262188E-01	-2.447568E+01	3.895425E+00	1.031381E-02
10	16	-1.399542E+00	-4.665574E+01	7.425492E+00	5.999441E-02
11	17	-2.305214E+00	-5.062168E+01	8.058691E+00	9.107814E-02
12	19	-1.108957E-01	-8.346183E+01	1.328338E+01	2.657400E-03
13	20	-1.650773E+00	-9.883298E+01	1.541145E+01	3.409527E-02
14	21	-5.003501E+00	-1.049873E+02	1.670925E+01	9.531632E-02
15	22	-8.047928E+00	-1.075832E+02	1.712240E+01	1.498131E-01
16	23	-2.888219E+00	-1.169990E+02	1.862097E+01	4.937167E-02
17	24	-2.451561E-01	-1.181006E+02	1.879630E+01	4.151648E-03
18	25	-2.356287E-01	-1.371099E+02	2.182172E+01	4.894304E-03
19	27	-7.666564E-01	-1.509125E+02	2.401847E+01	1.016028E-02
20	28	-1.459772E+00	-1.595334E+02	2.539052E+01	1.830052E-02
21	29	-1.519114E+01	-1.888800E+02	2.855978E+01	1.820507E-01
22	30	-1.088592E+01	-1.740543E+02	2.770161E+01	1.250865E-01
23	26	-1.183284E-01	-1.802246E+02	2.868384E+01	1.313122E-03
24	31	-9.500438E+00	-1.877942E+02	2.988838E+01	1.011782E-01
25	33	-1.222372E+00	-2.011528E+02	3.201443E+01	1.215368E-02
26	32	-2.018945E+00	-2.041883E+02	3.249774E+01	1.977523E-02
27	34	-2.190737E+01	-2.249127E+02	3.579596E+01	1.948078E-01
28	35	-2.746958E+01	-2.478998E+02	3.945445E+01	2.216186E-01
29	4	-1.500951E-03	1.678272E-02	2.671052E-03	1.788687E-01
30	3	-5.868273E-03	2.339853E-02	3.723981E-03	5.015933E-01
31	9	-1.092172E-02	1.262680E-01	2.009618E-02	1.729926E-01
32	10	-3.863643E-02	1.481380E-01	2.357689E-02	5.216277E-01
33	7	-8.303530E-03	6.335589E-01	1.008337E-01	2.621242E-02
34	15	-2.730964E-02	1.987509E+01	3.163220E+00	2.748127E-03
35	18	-2.305214E+00	5.062168E+01	8.058691E+00	9.107614E-02

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 1						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-1.211585E-02	-9.600834E-13	-1.192618E-03	-2.781579E-13	-3.336734E-01	-1.521826E-11	3
4	-1.210582E-02	-9.578850E-13	-6.902715E-04	-1.568207E-13	-2.016108E-01	-1.370330E-11	6
7	-1.210551E-02	-9.576290E-13	-2.040782E-04	-3.918825E-14	-7.322623E-02	-1.223461E-11	9
10	8.750125E-04	1.828858E-13	-6.951146E-02	-1.816819E-12	9.024435E-02	-1.038840E-11	12
13	-1.252867E-01	-2.277212E-12	1.438291E-03	2.739222E-13	9.873263E-02	-1.030365E-11	15
16	-3.183446E-01	-4.486018E-12	3.123283E-03	5.379889E-13	9.873263E-02	-1.030350E-11	18
19	-6.297781E-02	-1.564431E-12	1.429549E-03	3.177732E-13	2.392004E-01	-8.698318E-12	21
22	-6.200958E-02	-1.408350E-12	9.348449E-04	1.985906E-13	1.115285E-01	-8.947131E-12	24
25	-6.327218E-02	-1.712820E-12	9.348327E-04	1.985889E-13	1.086351E-01	-1.040059E-11	27
28	-1.246871E-01	-2.269371E-12	1.945817E-03	3.970284E-13	2.338218E-01	-8.780543E-12	30
31	9.679396E-02	3.618985E-13	-1.456858E-03	-2.615802E-13	-1.525514E-01	-1.303417E-11	33
34	9.679396E-02	3.617492E-13	-1.225532E-04	6.136320E-14	1.978143E-01	-9.027598E-12	36
37	9.583802E-02	1.550354E-13	-1.457132E-03	-2.614436E-13	-1.545132E-01	-1.334215E-11	39
40	9.583802E-02	1.549607E-13	-1.225842E-04	6.001758E-14	1.958531E-01	-8.335130E-12	42
43	-3.408458E-02	-1.198219E-12	1.705797E-03	4.055559E-13	3.779361E-01	-7.057245E-12	45
46	-7.248548E-03	-9.267395E-13	2.570768E-03	6.343983E-13	8.683915E-01	-3.807477E-12	48
49	-4.038792E-02	-1.382898E-12	2.849248E-03	6.771571E-13	8.635745E-01	-3.951759E-12	51
52	-3.971895E-02	-1.221594E-12	2.849248E-03	6.771571E-13	8.651069E-01	-3.712188E-12	54
55	-3.656140E-02	-1.262388E-12	3.717471E-03	8.893319E-13	9.002229E-01	-1.130354E-12	57
58	-2.157002E-01	-3.334306E-12	5.669706E-03	1.225025E-12	1.000000E+00	0.000000E+00	60
61	-2.154429E-01	-3.356411E-12	5.655519E-03	1.222688E-12	9.991562E-01	-6.153619E-14	63

	COLUMN 2						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-8.661373E-03	4.413087E-11	4.335779E-05	-5.479511E-11	-2.793220E-01	7.039858E-10	3
4	-8.661759E-03	4.458129E-11	2.619432E-05	-3.210882E-11	-1.526716E-01	6.346611E-10	6
7	-8.661588E-03	4.457955E-11	8.510014E-06	-1.002838E-11	-2.953449E-02	5.671350E-10	9
10	1.739612E-04	2.112424E-11	-6.370993E-02	7.429771E-11	1.272684E-01	4.809631E-10	12
13	-1.171098E-01	9.924561E-11	3.895552E-04	2.616833E-11	1.355311E-01	4.749036E-10	15
16	-3.022749E-01	2.004322E-10	1.078420E-03	3.744530E-11	1.355311E-01	4.748036E-10	18
19	-5.734778E-02	6.646504E-11	1.492278E-04	4.686346E-11	2.702559E-01	4.009887E-10	21
22	-5.704587E-02	9.476740E-11	1.645000E-04	2.445941E-11	1.470079E-01	4.786151E-10	24
25	-5.700322E-02	3.780904E-11	1.646320E-04	2.445882E-11	1.458250E-01	4.592518E-10	27
28	-1.184381E-01	9.888464E-11	3.697414E-04	4.929891E-11	2.648669E-01	4.038453E-10	30
31	9.546754E-02	1.933338E-12	-3.687113E-04	-3.012863E-11	-1.060227E-01	6.141727E-10	33
34	9.546754E-02	1.933277E-12	-4.138780E-04	3.007680E-11	2.300228E-01	4.288513E-10	36
37	9.549848E-02	-3.868347E-11	-3.889059E-04	-3.012746E-11	-1.068248E-01	6.010414E-10	39
40	9.549848E-02	-3.868347E-11	-4.139000E-04	3.007708E-11	2.292209E-01	4.187226E-10	42
43	-2.876928E-02	5.828847E-11	2.885065E-05	6.875986E-11	4.031254E-01	3.305274E-10	45
46	-3.896949E-03	3.714016E-11	-1.041746E-04	1.168062E-10	8.798814E-01	1.761971E-10	48
49	-3.534941E-02	3.931830E-11	1.311759E-05	1.183700E-10	8.777013E-01	1.721481E-10	51
52	-3.537184E-02	6.948864E-11	1.311759E-05	1.183700E-10	8.783278E-01	1.824035E-10	54
55	-3.201138E-02	5.258489E-11	-2.947764E-05	1.586944E-10	9.042527E-01	5.315317E-11	57
58	-2.047463E-01	1.455631E-10	6.002801E-04	1.863736E-10	1.000000E+00	0.000000E+00	60
61	-2.033830E-01	1.378644E-10	5.952701E-04	1.862084E-10	9.993907E-01	-2.179536E-12	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 3						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	5.529059E-02	4.278252E-03	6.210482E-02	5.348112E-02	1.000000E+00	0.000000E+00	3
4	5.477753E-02	3.838308E-03	3.612979E-02	3.120232E-02	8.910168E-01	8.424617E-02	6
7	5.477503E-02	3.837817E-03	1.089430E-02	9.541547E-03	7.854908E-01	1.664300E-01	9
10	-2.963825E-02	-2.342689E-02	1.025139E-01	-3.242817E-02	6.515622E-01	2.713884E-01	12
13	1.532561E-01	-6.380539E-02	-4.105263E-02	-3.113413E-02	6.484405E-01	2.795598E-01	15
16	3.119727E-01	-1.873876E-01	-7.188822E-02	-5.096033E-02	6.484405E-01	2.795598E-01	18
19	1.020396E-01	-2.391682E-02	-5.874504E-02	-4.844170E-02	5.329568E-01	3.694764E-01	21
22	6.914379E-02	-5.187451E-02	-3.328019E-02	-2.661582E-02	6.126402E-01	2.898037E-01	24
25	1.343829E-01	4.272786E-03	-3.328111E-02	-2.661605E-02	6.655848E-01	3.038473E-01	27
28	1.528914E-01	-6.335414E-02	-5.747870E-02	-5.382033E-02	5.376762E-01	3.658798E-01	30
31	-5.106589E-02	5.912149E-02	4.399386E-02	3.420578E-02	8.378283E-01	1.065183E-01	33
34	-5.106589E-0:	5.912149E-02	-2.495839E-02	-2.492775E-02	5.498481E-01	3.308187E-01	36
37	-6.837001E-03	9.705159E-02	4.399525E-02	3.420594E-02	8.737222E-01	1.295998E-01	39
40	-6.836990E-03	9.705160E-02	-2.495823E-02	-2.492773E-02	5.857408E-01	3.538987E-01	42
43	7.045101E-02	-1.232036E-02	-8.138629E-02	-6.884316E-02	4.127375E-01	4.539125E-01	45
46	5.622281E-02	1.175685E-02	-1.339176E-01	-1.148155E-01	1.817463E-01	6.429310E-01	48
49	1.004708E-01	5.574370E-03	-1.387532E-01	-1.178383E-01	1.974536E-01	6.506341E-01	51
52	6.591501E-02	-2.405902E-02	-1.387532E-01	-1.178383E-01	1.694110E-01	6.328024E-01	54
55	8.032198E-02	-7.008991E-03	-1.846160E-01	-1.572894E-01	-1.049508E-02	7.926120E-01	57
58	2.304176E-01	-1.205529E-01	-2.330358E-01	-1.926392E-01	-9.095283E-02	8.575980E-01	60
61	2.374473E-01	-1.126198E-01	-2.327151E-01	-1.924128E-01	-8.390842E-02	8.615662E-01	63

	COLUMN 4						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	2.766103E-02	1.157251E-03	-2.818995E-01	1.308180E-05	4.838340E-02	1.369091E-02	3
4	2.998946E-02	1.164746E-03	-1.643294E-01	-1.155282E-04	4.415628E-02	1.538144E-02	6
7	2.998933E-02	1.164736E-03	-4.999458E-02	-2.398278E-04	3.888902E-02	1.700957E-02	9
10	1.196542E-01	-6.968008E-05	2.985931E-02	4.287615E-04	3.084244E-02	1.906530E-02	12
13	9.640943E-03	-2.516383E-04	1.553044E-01	3.035456E-04	1.887080E-02	1.901882E-02	15
16	1.761983E-02	-2.699249E-03	2.439692E-01	1.516436E-03	1.887060E-02	1.901682E-02	18
19	7.087518E-03	5.384988E-04	2.517856E-01	-2.249153E-04	1.308518E-02	2.079758E-02	21
22	1.546691E-01	3.811921E-04	1.366408E-01	-1.012236E-04	9.452435E-02	2.020244E-02	24
25	-1.405618E-01	7.043724E-04	1.386407E-01	-1.012411E-04	-5.772082E-02	1.811910E-02	27
28	9.613836E-03	-2.425351E-04	2.750180E-01	1.677718E-04	1.328741E-02	2.072635E-02	30
31	1.005601E-01	2.449601E-03	-1.711679E-01	-8.455275E-04	8.090013E-02	1.652517E-02	33
34	1.005601E-01	2.449600E-03	1.408750E-01	-1.185140E-03	6.642473E-02	2.096702E-02	36
37	-9.959444E-02	2.668056E-03	-1.711677E-01	-8.454980E-04	-2.231731E-02	1.510927E-02	39
40	-9.959445E-02	2.668058E-03	1.408750E-01	-1.185136E-03	-3.678141E-02	1.955426E-02	42
43	4.183218E-02	8.637698E-04	3.618194E-01	-5.404995E-04	2.588614E-02	2.280559E-02	45
46	4.764301E-03	1.245001E-03	3.066403E-01	-9.914087E-04	-4.590284E-03	2.621318E-02	48
49	-7.208630E-02	9.146514E-04	6.198797E-01	-7.832289E-04	-4.482459E-02	2.563541E-02	51
52	8.430650E-02	7.435959E-04	6.198797E-01	-7.832289E-04	3.581364E-02	2.673698E-02	54
55	5.975775E-03	8.733928E-04	8.283484E-01	-1.034914E-03	-1.425433E-02	2.917753E-02	57
58	4.238910E-03	-1.389775E-03	1.000000E+00	0.000000E+00	-2.311682E-02	3.037878E-02	60
61	-3.290084E-02	-1.341650E-03	9.989218E-01	-8.408930E-06	-4.221790E-02	3.011108E-02	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 5						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	8.305505E-01	-2.545264E-02	1.575851E-02	1.528940E-03	-5.414810E-01	-1.034417E-02	3
4	8.304237E-01	-2.548935E-02	9.766889E-03	6.691843E-04	-3.886795E-01	-9.147740E-03	6
7	8.304191E-01	-2.548905E-02	3.777419E-03	-1.603162E-04	-2.403718E-01	-8.053020E-03	9
10	-1.903386E-03	2.348085E-04	7.642332E-01	-2.594072E-02	-5.081264E-02	-6.758579E-03	12
13	7.008443E-01	-2.624538E-02	-2.922381E-04	1.869014E-03	-4.157759E-02	-7.388568E-03	15
16	4.776390E-01	-2.789175E-02	6.080683E-03	7.243786E-03	-4.157759E-02	-7.388568E-03	18
19	7.730515E-01	-2.672015E-02	-8.724623E-03	-7.779865E-04	1.208018E-01	-6.182358E-03	21
22	7.659410E-01	-2.678491E-02	-2.869663E-03	5.110322E-05	-2.294504E-02	-2.679204E-03	24
25	7.809864E-01	-2.464074E-02	-2.882254E-03	5.152297E-05	-3.388339E-02	-1.190711E-02	27
28	7.018412E-01	-2.824508E-02	-6.432636E-03	9.733683E-04	1.143073E-01	-6.240234E-03	30
31	9.523513E-01	-2.508884E-02	3.820821E-03	-2.865058E-03	-3.305491E-01	-6.373119E-03	33
34	9.523513E-01	-2.508884E-02	-1.208617E-02	-4.938236E-03	7.565722E-02	-3.428540E-03	36
37	9.625428E-01	-2.363983E-02	3.838747E-03	-2.885533E-03	-3.379449E-01	-1.263672E-02	39
40	9.625429E-01	-2.363983E-02	-1.206402E-02	-4.848337E-03	5.821679E-02	-9.684436E-03	42
43	8.044679E-01	-2.573759E-02	-1.596061E-02	-2.477230E-03	2.820832E-01	-3.889649E-03	45
46	8.374740E-01	-2.524565E-02	-2.997072E-02	-5.103861E-03	5.146011E-01	-2.554242E-03	48
49	8.035410E-01	-2.495481E-02	-2.879385E-02	-4.177201E-03	6.093303E-01	-5.015473E-03	51
52	7.955858E-01	-2.609522E-02	-2.879385E-02	-4.177201E-03	6.151309E-01	-1.279816E-04	54
55	8.035899E-01	-2.549525E-02	-3.962313E-02	-5.806494E-03	8.848988E-01	-5.832837E-04	57
58	5.958715E-01	-2.896168E-02	-3.821054E-02	-1.442000E-03	1.000000E+00	0.000000E+00	60
61	5.993994E-01	-2.867894E-02	-3.823549E-02	-1.478305E-03	9.980898E-01	-1.183177E-03	63

	COLUMN 6						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.915735E-02	-3.485870E-03	2.649882E-01	3.200257E-03	1.038221E-01	4.137707E-03	3
4	-3.190929E-02	-3.676812E-03	1.254905E-01	-1.380358E-03	1.137123E-01	3.815280E-03	6
7	-3.189539E-02	-3.575985E-03	-1.001034E-02	-5.851671E-03	1.131007E-01	3.800837E-03	9
10	2.113162E-02	-9.488019E-03	-2.874271E-02	-3.340121E-03	1.014713E-01	3.084880E-03	12
13	-1.774850E-03	-2.324987E-03	2.483740E-01	-7.434702E-03	3.020784E-03	2.080560E-03	15
16	-1.064298E-03	-1.855808E-03	1.000000E+00	0.000000E+00	3.020784E-03	2.080560E-03	18
19	-2.054587E-03	-2.476236E-03	-1.425375E-01	-1.473600E-02	2.492371E-03	1.739150E-03	21
22	-1.771320E-01	-8.244187E-03	-7.488439E-03	-1.028010E-02	6.481846E-01	8.498676E-03	24
25	1.730187E-01	3.288584E-03	-7.488473E-03	-1.028003E-02	-6.422086E-01	-4.392896E-03	27
28	-1.823884E-03	-2.326767E-03	1.032089E-01	-1.214330E-02	2.513000E-03	1.762624E-03	30
31	-1.212697E-01	-8.785872E-03	-3.484463E-01	-7.324000E-03	4.419250E-01	7.107869E-03	33
34	-1.212704E-01	-6.788006E-03	-7.180493E-01	-1.946298E-02	4.400904E-01	8.215441E-03	36
37	1.159332E-01	1.037181E-03	-3.484471E-01	-7.323907E-03	-4.338587E-01	-1.714418E-03	39
40	1.159339E-01	1.037187E-03	-7.180493E-01	-1.946298E-02	-4.348004E-01	-2.532054E-03	42
43	-4.479994E-02	-2.949820E-03	-4.008311E-01	-2.066611E-02	1.691113E-01	2.874042E-03	45
46	-2.264915E-03	-2.611746E-03	-8.108331E-01	-3.175877E-02	-8.793487E-04	7.004840E-04	48
49	9.058068E-02	5.209621E-04	-6.807742E-01	-3.040948E-02	-3.408450E-01	-2.714580E-03	51
52	-8.486288E-02	-5.584918E-03	-6.807742E-01	-3.040948E-02	3.426192E-01	4.125522E-03	54
55	-2.154297E-03	-2.540472E-03	-9.434947E-01	-3.875176E-02	-3.213956E-06	1.318107E-04	57
58	8.415828E-03	-1.738649E-03	-3.478277E-01	-3.518075E-02	-4.051430E-02	-5.180008E-04	60
61	5.338619E-02	-2.833575E-04	-3.529319E-01	-3.521984E-02	-2.025793E-01	-2.158028E-03	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

COLUMN 7

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.116519E-02	-1.293298E-03	9.150287E-01	2.663443E-02	-4.887138E-02	4.548661E-03	3
4	-2.317779E-02	-1.416861E-03	8.126887E-01	2.035094E-02	-5.488511E-02	4.807531E-03	6
7	-2.324441E-02	-1.417815E-03	7.130508E-01	1.424498E-02	-5.582487E-02	4.809428E-03	9
10	4.781860E-01	1.516969E-02	-2.053382E-02	-1.241463E-03	-5.073380E-02	4.231516E-03	12
13	-4.687927E-04	5.635769E-06	3.471480E-01	2.489328E-02	8.591244E-04	9.723723E-06	15
16	1.060558E-03	1.469398E-04	-4.752873E-02	5.722920E-02	8.591249E-04	9.723744E-06	18
19	-1.058817E-03	-4.485183E-05	3.657615E-01	7.810210E-03	-2.218044E-04	-9.297303E-05	21
22	-1.292073E-01	-7.924987E-03	4.665521E-01	1.389745E-02	-3.379548E-01	2.763385E-02	24
25	1.271132E-01	7.835859E-03	4.665502E-01	1.389736E-02	3.394882E-01	-2.763106E-02	27
28	-5.706168E-04	7.723141E-07	2.440971E-01	1.834566E-02	-1.682952E-04	-8.857336E-05	30
31	-8.984634E-02	-5.514383E-03	1.000000E+00	0.000000E+00	-2.303173E-01	1.887885E-02	33
34	-8.984368E-02	-5.514353E-03	7.245778E-01	-1.673238E-02	-2.299086E-01	1.886600E-02	36
37	8.530429E-02	5.191483E-03	9.999849E-01	-3.979621E-07	2.360677E-01	-1.848123E-02	39
40	8.530147E-02	5.191449E-03	7.245747E-01	-1.673248E-02	2.301212E-01	-1.878054E-02	42
43	-3.257660E-02	-1.986508E-03	3.172856E-01	-3.567727E-03	-8.385148E-02	6.533702E-03	45
46	-1.483122E-03	-8.528076E-05	1.485401E-01	-2.180226E-02	-3.463671E-03	-4.044601E-04	48
49	6.883648E-02	4.115694E-03	8.302114E-02	-1.623960E-02	1.761502E-01	-1.502859E-02	51
52	-6.930366E-02	-4.238491E-03	8.302114E-02	-1.623960E-02	-1.830464E-01	1.422276E-02	54
55	-1.260166E-03	-6.391983E-05	-9.273228E-02	-2.804104E-02	-5.241606E-03	-5.742689E-04	57
58	8.100725E-03	5.521141E-04	-5.386625E-01	-2.842734E-03	1.509788E-02	-2.358338E-03	60
61	4.037533E-02	2.526986E-03	-5.353929E-01	-3.055544E-03	1.002929E-01	-9.267186E-03	63

COLUMN 8

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-1.532178E-01	1.004152E-04	2.063131E-03	9.565451E-05	-2.414984E-01	1.387604E-03	3
4	-1.532861E-01	1.001522E-04	6.907861E-04	4.535146E-05	-1.627937E-01	9.684176E-04	6
7	-1.538240E-01	7.883762E-05	-7.389512E-04	-6.606218E-06	-8.759537E-02	5.061846E-04	9
10	-1.480937E-03	-1.054104E-04	-1.848055E-01	3.558792E-04	5.778042E-03	-2.570415E-04	12
13	-1.188220E-01	4.281838E-04	-1.535933E-03	-1.008648E-04	-1.878660E-02	-2.927792E-04	15
16	1.000000E+00	0.000000E+00	3.517024E-03	2.076536E-04	-1.880266E-02	-2.929204E-04	18
19	-1.848731E-01	1.841643E-04	-8.223231E-04	-8.531718E-05	7.632838E-02	-8.921899E-04	21
22	-1.838293E-01	2.514990E-04	-1.757392E-03	-1.115034E-04	9.644524E-03	-5.215141E-04	24
25	-1.818680E-01	2.923056E-04	-4.104760E-04	-9.861932E-05	-1.010446E-03	-2.407575E-04	27
28	-2.233524E-01	3.278535E-04	1.275952E-03	-1.432381E-04	7.310281E-02	-8.674380E-04	30
31	-9.998850E-02	-4.404463E-04	-5.251486E-04	5.477894E-05	-1.275880E-01	8.444986E-04	33
34	-9.997840E-02	-4.398483E-04	-6.629441E-03	2.701809E-05	5.180479E-02	-9.038076E-04	36
37	-9.885027E-02	-4.288921E-04	-6.834058E-03	1.217829E-04	-1.323651E-01	1.132602E-03	39
40	-9.885511E-02	-4.292634E-04	-6.256543E-03	1.021118E-05	4.549552E-02	-7.091322E-04	42
43	-1.681191E-01	1.224924E-04	-8.316352E-04	-1.256871E-06	1.654023E-01	-1.152140E-03	45
46	-1.461846E-01	2.965601E-04	1.431204E-03	2.498484E-04	3.849140E-01	-1.599688E-04	48
49	-1.759016E-01	-8.140573E-06	2.239898E-03	2.074704E-04	3.829772E-01	-7.362901E-05	51
52	-1.743458E-01	9.629080E-05	2.239922E-03	2.074703E-04	3.873783E-01	-2.941671E-04	54
55	-1.697388E-01	1.586353E-04	4.394586E-03	3.310770E-04	6.055567E-01	2.747857E-03	57
58	-3.802760E-01	-2.915147E-03	-5.635612E-03	-3.064025E-04	7.147202E-01	4.539274E-03	60
61	-3.852657E-01	-3.016591E-03	-5.483424E-03	-2.983725E-04	7.253388E-01	4.847234E-03	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

COLUMN 9

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	1.300814E-02	2.171001E-04	-7.374458E-02	-3.538177E-03	-1.442138E-01	5.061335E-04	3
4	1.460828E-02	2.384291E-04	2.231037E-03	-2.548703E-03	-1.845372E-01	3.056672E-04	6
7	1.361938E-02	1.948579E-04	7.402385E-02	-1.688691E-03	-1.620554E-01	1.852918E-04	9
10	-1.579458E-01	-7.860509E-04	1.340208E-02	2.222305E-04	-1.492868E-01	-7.753347E-05	12
13	2.977527E-03	1.387136E-04	-3.140482E-01	6.323010E-05	2.005981E-03	-6.203099E-05	15
16	-2.160853E-03	-4.089472E-04	6.130680E-01	7.817259E-03	2.008638E-03	-6.210426E-05	18
19	7.083323E-04	1.178711E-04	-8.493840E-02	-3.725174E-04	-3.923165E-03	-3.014043E-04	21
22	7.823704E-02	7.248569E-04	-1.379475E-01	-7.079447E-04	-9.976128E-01	-1.617116E-04	24
25	-7.875298E-02	-4.607493E-04	-1.379429E-01	-7.126601E-04	1.000000E+00	0.000000E+00	27
28	4.895718E-03	2.628014E-04	-4.814672E-01	-5.119444E-04	-1.855866E-03	-2.742078E-04	30
31	4.995265E-02	3.597780E-04	7.678277E-01	-2.889535E-03	-7.370909E-01	1.251775E-03	33
34	4.992853E-02	3.580650E-04	8.890511E-01	-6.054283E-04	-7.000149E-01	7.272341E-06	36
37	-8.278593E-02	-6.011638E-04	7.683127E-01	-2.877710E-03	7.632229E-01	-6.885740E-04	39
40	-8.273929E-02	-5.983418E-04	8.889389E-01	-6.144858E-04	6.944817E-01	-4.416768E-04	42
43	1.520293E-02	4.200854E-05	1.509551E-01	-1.632724E-04	-2.588185E-01	-7.269807E-04	45
46	-1.253344E-03	4.820703E-05	4.223302E-01	-4.967188E-04	-1.911984E-02	-8.186538E-04	48
49	-2.497085E-02	5.527282E-04	2.145959E-01	-9.638744E-04	5.384907E-01	4.240280E-04	51
52	2.343940E-02	-4.767028E-04	2.145959E-01	-9.638738E-04	-5.779633E-01	-2.073500E-03	54
55	-6.825178E-04	6.431035E-05	2.871813E-01	-2.468588E-03	-1.857303E-02	-3.725659E-04	57
58	-1.190091E-02	-1.609321E-03	-9.876472E-01	-1.761415E-02	6.450429E-02	1.892049E-03	60
61	-1.064563E-02	-3.146788E-03	-9.775199E-01	-1.744610E-02	3.727258E-01	8.002545E-03	63

COLUMN 10

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-1.226118E-02	-5.109786E-05	2.138902E-01	3.720152E-03	-6.340198E-02	-7.121427E-03	3
4	-1.367438E-02	-8.888121E-06	1.313784E-01	1.995680E-03	-4.108133E-02	-4.147917E-03	6
7	-1.318639E-02	-1.793686E-04	5.185373E-02	5.836956E-04	-2.272930E-02	-1.512737E-03	9
10	-5.793142E-02	-1.705842E-03	-1.255305E-02	-6.432003E-04	-1.026290E-03	9.074024E-04	12
13	-9.582886E-03	-1.188459E-03	-7.758322E-02	-2.008083E-03	1.150263E-02	1.378827E-03	15
16	6.421388E-03	1.081007E-03	2.636573E-02	1.695839E-03	1.154365E-02	1.381238E-03	18
19	-1.482772E-03	-2.311489E-04	-1.146252E-01	-1.809377E-03	2.383456E-02	2.624537E-03	21
22	-8.055085E-02	-7.345653E-04	-6.721162E-02	-1.683317E-03	-7.032172E-02	-1.462977E-03	24
25	7.315390E-02	-2.828534E-04	-6.719481E-02	-1.679220E-03	9.542247E-02	4.554167E-03	27
28	-6.616678E-03	-6.258840E-04	-1.628639E-01	-2.468674E-03	2.323114E-02	2.571984E-03	30
31	-3.757484E-02	1.078519E-03	1.833298E-01	8.621824E-04	-1.141471E-01	-3.194463E-03	33
34	-3.750761E-02	1.083467E-03	-2.597850E-02	8.717354E-04	-3.679548E-02	5.411185E-04	36
37	8.995151E-02	1.805472E-03	1.782253E-01	7.104824E-04	8.749808E-02	-3.992769E-04	39
40	8.986080E-02	1.786021E-03	-2.284950E-02	1.033136E-03	8.303675E-02	4.647537E-03	42
43	6.213132E-03	4.179368E-04	-1.263819E-01	-5.851047E-04	2.080768E-02	1.920789E-03	45
46	-2.345707E-03	-5.334741E-04	-2.802502E-02	5.063234E-03	9.245082E-03	-4.508582E-04	48
49	-6.251890E-02	-1.988437E-03	-1.894558E-02	3.320155E-03	-1.965122E-02	4.272683E-03	51
52	7.110330E-02	2.917897E-03	-1.894557E-02	3.320150E-03	3.953496E-02	-6.108938E-03	54
55	1.851322E-03	-4.833687E-05	2.238142E-01	1.371794E-02	-6.966078E-02	-1.230103E-02	57
58	9.792770E-02	1.233106E-02	1.000000E+00	0.000000E+00	-1.829516E-01	-1.883146E-02	60
61	1.261028E-02	1.048813E-02	9.940821E-01	2.641122E-04	-3.894135E-01	-1.573957E-02	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
INTERMEDIATE MATRIX ... UAV

COLUMN 11

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.318718E-02	-2.476134E-04	7.289582E-02	7.954107E-03	3.488790E-01	1.566591E-03	3
4	-2.317246E-02	-3.272375E-04	4.102338E-02	4.686629E-03	1.918997E-01	8.544779E-04	6
7	-1.461925E-02	-6.946593E-05	1.075734E-02	1.697031E-03	5.076582E-02	6.198660E-04	9
10	-2.136227E-02	-2.190728E-03	1.950846E-02	6.370554E-04	-7.336466E-02	-4.046727E-04	12
13	6.307161E-02	3.665220E-04	-2.365677E-02	-2.548186E-03	-7.386148E-02	1.096571E-04	15
16	-3.903290E-02	-2.884688E-03	5.977785E-03	9.348387E-04	-7.416806E-02	1.382839E-04	18
19	8.527148E-03	6.384714E-04	-3.838169E-02	-4.327205E-03	-1.372846E-01	-1.322619E-03	21
22	1.549548E-03	-2.262128E-03	-2.431331E-02	-2.515297E-03	-9.140053E-02	-2.087497E-03	24
25	4.740857E-02	3.443520E-03	-2.441850E-02	-2.567815E-03	-7.135372E-02	1.531132E-03	27
28	2.704757E-02	1.278220E-03	-4.885221E-02	-5.388955E-03	-1.344189E-01	-1.296568E-03	30
31	-1.101642E-01	-2.581798E-04	5.302869E-03	8.125701E-03	1.370234E-01	-7.759820E-03	33
34	-1.100491E-01	-2.557850E-04	-1.460217E-02	-3.298027E-03	-1.557187E-01	-6.957288E-04	36
37	-7.518676E-02	3.628934E-03	5.674879E-02	1.315973E-03	1.568855E-01	-3.581663E-03	39
40	-7.514172E-02	3.621498E-03	-3.880106E-02	-7.326830E-04	-1.404535E-01	2.251510E-03	42
43	1.394868E-03	9.080605E-04	-4.076775E-02	-4.585532E-03	-1.522826E-01	-3.174335E-03	45
46	3.300672E-02	1.424434E-03	2.053120E-02	3.525811E-04	7.667832E-02	-4.470507E-03	48
49	-4.703041E-02	-1.763843E-03	2.243044E-02	3.348833E-04	6.899238E-02	-5.029343E-03	51
52	1.484136E-02	3.681764E-03	2.243043E-02	3.348831E-04	8.330418E-02	-4.793041E-03	54
55	2.834099E-03	1.814371E-03	1.308087E-01	1.050321E-02	6.045728E-01	5.344831E-03	57
58	-5.825564E-01	-8.071731E-03	2.345750E-01	3.258081E-02	9.372224E-01	8.661571E-03	60
61	-6.791679E-01	-8.720437E-03	2.346759E-01	3.250687E-02	1.000000E+00	0.000000E+00	63

COLUMN 12

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	4.353008E-03	3.548218E-04	-5.514127E-04	-1.695131E-04	-2.529957E-02	-2.101097E-03	3
4	4.248211E-03	3.373066E-04	4.344923E-05	-5.591321E-06	-1.217638E-02	-3.725718E-04	6
7	2.856334E-03	-9.180718E-06	4.387788E-04	9.125207E-05	-1.447102E-03	7.112647E-04	9
10	3.296597E-04	5.793594E-05	1.638618E-03	9.914847E-05	-8.519923E-04	3.594509E-04	12
13	6.876330E-04	7.910562E-05	6.783594E-04	8.483952E-05	-1.070559E-03	3.394358E-04	15
16	-2.906141E-04	-7.576678E-05	-1.844144E-04	-2.210208E-05	-1.082758E-03	3.433480E-04	18
19	1.789351E-03	9.955586E-05	1.010699E-04	-2.846602E-05	-1.373603E-03	-4.587047E-04	21
22	1.461716E-03	-3.328061E-05	3.060417E-04	4.488556E-05	-1.353298E-05	3.156914E-04	24
25	2.207823E-03	1.859414E-04	2.551678E-04	4.479061E-05	-1.985003E-03	1.441848E-04	27
28	1.830692E-03	4.645197E-04	1.512277E-03	8.663202E-05	-1.409076E-03	-4.312320E-04	30
31	-1.537822E-01	-6.188600E-04	-8.868156E-01	1.957453E-03	9.990668E-01	-5.199010E-04	33
34	-1.532892E-01	-5.815925E-04	-3.362581E-02	1.594395E-03	-1.407288E-02	-1.527258E-03	36
37	-1.528059E-01	-4.688898E-04	8.897111E-01	-1.023921E-03	1.000000E+00	0.000000E+00	39
40	-1.523157E-01	-4.301400E-04	3.040098E-02	-1.936660E-03	-1.652631E-02	-1.790739E-03	42
43	1.602477E-03	-8.855446E-05	-8.627868E-04	-1.853597E-04	-5.741718E-04	-1.088118E-03	45
46	2.018316E-03	1.209869E-05	-3.429734E-03	-4.697474E-04	3.424387E-04	-1.514127E-03	48
49	2.650507E-03	-4.429565E-05	-2.847394E-03	-4.196088E-04	-1.326232E-03	-1.818796E-03	51
52	1.345595E-03	-1.293847E-04	-2.847389E-03	-4.196072E-04	2.048993E-03	-1.522475E-03	54
55	1.837798E-03	3.574303E-05	-4.460949E-03	-3.778845E-04	1.848164E-03	3.238637E-04	57
58	1.187609E-03	-2.773572E-03	3.622093E-03	4.697362E-04	1.600731E-03	1.924322E-03	60
61	1.459442E-03	-3.575805E-03	3.548482E-03	4.713270E-04	-8.543328E-04	2.259532E-03	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
INTERMEDIATE MATRIX ... UAV

COLUMN 13

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	3.115014E-03	2.038235E-03	-4.493871E-02	-2.863594E-02	5.475009E-03	7.016599E-03	3
4	3.659089E-03	2.497440E-03	-2.174588E-02	-9.382884E-03	-3.494607E-03	-1.857475E-03	6
7	2.300487E-03	1.827824E-03	-2.190976E-03	6.702409E-03	-2.212343E-03	-3.181873E-03	9
10	1.767958E-03	7.542683E-03	-1.954175E-03	-8.355491E-04	-2.309892E-03	-5.423190E-03	12
13	4.234317E-03	2.428611E-03	3.880534E-03	4.200158E-03	-2.341781E-03	-2.693758E-03	15
16	-9.837485E-04	-4.653187E-04	-6.767248E-04	-8.302479E-05	-2.379291E-03	-2.734036E-03	18
19	-6.136655E-04	-8.608733E-04	8.976314E-03	6.333107E-03	-3.516798E-03	-1.316348E-03	21
22	7.189428E-03	1.773401E-03	2.971731E-03	7.893964E-03	-4.374493E-03	-2.280481E-02	24
25	-4.385189E-03	-9.843830E-04	2.808588E-03	7.895362E-03	8.546410E-04	1.808340E-02	27
28	-3.981584E-03	-2.674513E-03	6.171178E-02	6.741933E-03	-6.056471E-03	-1.690617E-03	30
31	2.253098E-02	-3.350563E-03	1.000000E+00	0.000000E+00	-9.084614E-01	1.586266E-02	33
34	2.232698E-02	-3.374668E-03	3.925175E-02	3.846731E-02	-1.694641E-02	-2.474758E-02	36
37	-3.287559E-02	-1.481685E-03	9.894659E-01	-9.187356E-03	9.008580E-01	-1.981598E-02	39
40	-3.285337E-02	-1.448897E-03	3.119744E-02	3.230433E-02	2.154980E-03	1.516101E-02	42
43	-1.068198E-02	-7.117395E-03	-1.851745E-02	-3.404167E-03	1.157913E-02	9.353060E-04	45
46	6.427232E-04	2.835240E-04	-1.238298E-01	-6.492983E-02	1.789359E-02	1.785085E-02	48
49	3.076297E-02	1.872711E-02	-1.084576E-01	-6.058704E-02	-3.139070E-02	8.099484E-03	51
52	-3.476230E-02	-2.238808E-02	-1.084571E-01	-6.058678E-02	7.212488E-02	3.224144E-02	54
55	-1.478370E-03	-1.798054E-03	-1.904382E-01	-1.118955E-01	3.595574E-02	2.726243E-02	57
58	3.511697E-03	1.291688E-02	1.223188E-01	8.103597E-02	8.028910E-03	1.505351E-03	60
61	1.347691E-02	2.496740E-02	1.195839E-01	7.924103E-02	-1.002072E-01	-7.420607E-02	63

COLUMN 14

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-3.558015E-03	9.702081E-03	1.170370E-01	-8.183554E-02	-6.933410E-02	-1.835403E-02	3
4	-5.419897E-03	1.088428E-02	3.486609E-02	-2.747538E-02	-5.980144E-03	-2.008078E-02	6
7	-6.557140E-03	6.010115E-03	-3.588688E-02	1.949541E-02	1.979974E-02	-2.785288E-03	9
10	-4.060718E-02	1.663514E-02	4.557375E-03	-8.882363E-04	3.555380E-02	-8.325430E-03	12
13	-1.223693E-02	7.875670E-03	-2.327228E-02	4.982238E-03	2.193810E-02	9.703432E-04	15
16	2.311613E-03	-1.863829E-03	9.789501E-04	1.081335E-03	2.233765E-02	9.484260E-04	18
19	7.490149E-03	9.896791E-04	-3.020742E-02	2.217714E-02	1.088809E-03	-7.321936E-03	21
22	-7.628000E-03	1.398269E-02	-4.203310E-02	1.863970E-02	1.245432E-01	-6.992578E-02	24
25	8.566897E-03	-8.230541E-03	-4.246249E-02	1.847058E-02	-8.689663E-02	7.191655E-02	27
28	2.040598E-02	1.342269E-03	2.522977E-02	5.140972E-02	7.774488E-04	-9.480368E-03	30
31	3.395539E-02	-3.543806E-02	1.000000E+00	0.000000E+00	-9.713620E-01	9.306664E-02	33
34	3.377563E-02	-3.536438E-02	-1.903862E-01	1.464274E-01	1.455589E-01	-1.110474E-01	36
37	-2.857893E-02	-1.586408E-02	9.671888E-01	-1.239248E-01	9.744385E-01	-1.037910E-01	39
40	-2.642165E-02	-1.583126E-02	-1.686706E-01	1.114999E-01	-9.285740E-02	6.486073E-02	42
43	2.862191E-02	-2.068246E-02	-5.803211E-03	-8.987200E-03	-1.124908E-02	-1.133877E-02	45
46	-7.544406E-04	1.498830E-03	2.336729E-01	-2.170650E-01	-1.252949E-01	1.035633E-02	48
49	-7.772509E-02	6.721343E-02	2.255053E-01	-1.991953E-01	-1.225804E-01	-4.049345E-02	51
52	9.561270E-02	-7.433889E-02	2.255042E-01	-1.991941E-01	-1.671933E-01	6.831738E-02	54
55	1.173166E-02	-4.899548E-04	4.482569E-01	-3.743783E-01	-1.335915E-01	6.473211E-02	57
58	-1.298970E-01	-2.548278E-02	-3.130840E-01	2.357680E-01	2.068708E-02	2.874890E-02	60
61	-2.240798E-01	-1.716133E-02	-3.054562E-01	2.308527E-01	3.571103E-01	-1.879995E-01	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 15						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-5.458273E-02	-5.559814E-03	1.000180E-01	4.295127E-02	3.900828E-01	1.330581E-02	3
4	-5.327127E-02	-6.163789E-03	2.458754E-02	1.211495E-02	1.402878E-01	9.069298E-03	6
7	-1.822859E-02	-7.900361E-04	-3.520837E-02	-1.291562E-02	-6.876116E-02	2.980045E-03	9
10	-3.483170E-02	-1.491328E-02	-2.028510E-02	1.337056E-03	-8.818918E-02	3.872537E-03	12
13	1.756014E-02	-1.083398E-03	-4.800395E-02	-5.301765E-03	-9.235298E-02	-4.123008E-04	15
16	-2.659080E-03	6.844835E-04	9.521696E-03	-3.769749E-04	-9.410698E-02	-1.517890E-04	18
19	-3.382111E-02	-1.888429E-03	-1.200032E-03	-1.111280E-02	3.354159E-02	-1.507076E-03	21
22	1.262034E-02	-1.451881E-03	-3.274840E-02	-1.502449E-02	-7.986019E-02	3.746847E-02	24
25	-3.758733E-02	1.077501E-03	-3.087650E-02	-1.540327E-02	-7.160674E-02	-4.169057E-02	27
28	-1.112137E-01	-2.854607E-03	-8.714545E-03	-9.242007E-04	2.870713E-02	-1.362032E-03	30
31	1.055185E-01	-5.174748E-02	-2.848331E-01	3.373473E-01	-8.121744E-02	-2.307758E-01	33
34	1.052923E-01	-5.157828E-02	-7.105782E-03	-5.288103E-02	-4.098092E-02	1.677164E-02	36
37	3.818400E-02	-6.601037E-02	3.157092E-01	2.926882E-01	1.585088E-01	3.776289E-01	39
40	3.817061E-02	-6.580050E-02	-2.558199E-02	-8.281385E-02	-4.639830E-02	-7.215055E-02	42
43	8.468896E-03	1.071320E-02	5.201170E-02	2.906977E-03	1.802651E-01	9.255030E-03	45
46	-5.490558E-03	8.908151E-04	2.024878E-01	9.974301E-02	4.358533E-01	1.514562E-02	48
49	-4.263464E-02	-3.124985E-02	1.884873E-01	9.569299E-02	5.559378E-01	1.544748E-02	51
52	2.164985E-02	3.401041E-02	1.884862E-01	9.569261E-02	4.851423E-01	-5.548943E-03	54
55	-3.706245E-02	-3.828551E-03	2.121825E-01	1.704677E-01	1.448916E-01	-2.450554E-02	57
58	6.458613E-01	2.982302E-02	-1.481012E-01	-1.246781E-01	-2.443300E-01	-1.592531E-02	60
61	1.000000E+00	0.000000E+00	-1.494482E-01	-1.229368E-01	-3.560432E-01	1.124220E-01	63

	COLUMN 16						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	1.525051E-02	-6.944949E-04	-2.693039E-01	5.884916E-02	6.384829E-02	-2.686142E-02	3
4	1.770821E-02	-1.598146E-03	-1.119833E-01	2.607249E-02	3.740730E-02	-8.079385E-03	6
7	1.351205E-02	-2.252999E-03	3.044208E-02	-6.646892E-03	2.466201E-02	1.018913E-03	9
10	1.587378E-01	-2.791906E-02	3.909282E-03	-8.485918E-04	1.929472E-02	6.314150E-03	12
13	-5.308981E-03	-3.512187E-03	3.145686E-01	-5.502779E-02	-2.215419E-02	8.645303E-03	15
16	1.150454E-03	9.028551E-04	-7.123090E-02	1.185782E-02	-2.264914E-02	8.886999E-03	18
19	-6.387390E-03	2.829884E-03	-5.902757E-03	-1.391162E-02	1.966076E-02	-1.668769E-03	21
22	-6.853789E-02	-1.005959E-02	1.476706E-01	-2.918406E-02	2.812641E-01	-6.433662E-03	24
25	4.593667E-02	1.402458E-02	1.499327E-01	-2.971495E-02	-3.223352E-01	2.199083E-02	27
28	1.908618E-02	3.486773E-03	-5.027161E-01	7.151538E-02	4.854806E-02	-6.141527E-03	30
31	1.035956E-01	-7.739514E-02	7.275767E-01	1.721817E-01	-6.261705E-01	-5.407884E-02	33
34	1.030862E-01	-7.722951E-02	-1.202160E-01	-1.410315E-02	2.206131E-01	-2.853436E-02	36
37	-2.939844E-03	-4.997363E-02	1.000000E+00	0.000000E+00	5.786188E-01	1.276826E-01	39
40	-2.765536E-03	-4.977859E-02	-7.620426E-02	-9.462218E-02	-1.788004E-01	-5.887889E-02	42
43	2.969535E-03	9.803249E-03	2.891402E-03	-1.779087E-02	2.073739E-03	1.410583E-03	45
46	-1.876411E-03	1.806796E-03	8.416502E-02	6.202162E-02	5.836097E-02	-3.432232E-02	48
49	-3.077085E-02	-3.043228E-02	6.472256E-02	6.109008E-02	1.319264E-01	-4.071770E-02	51
52	2.432939E-02	4.088972E-02	6.472218E-02	6.108969E-02	8.179569E-03	-4.327698E-02	54
55	-7.185793E-03	4.666380E-03	1.328229E-01	1.576774E-01	1.597585E-02	-4.477520E-02	57
58	9.137070E-02	-3.365309E-02	-4.715886E-02	-9.082394E-02	-3.121405E-02	2.410620E-03	60
61	1.338879E-01	-7.898953E-02	-4.635114E-02	-8.832398E-02	-6.828166E-04	1.271002E-01	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 17						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	1.344005E-02	2.534179E-03	5.147263E-03	-4.917276E-04	-3.540305E-02	-1.816474E-02	3
4	1.299758E-02	2.364577E-03	1.858698E-03	6.634572E-04	-9.241604E-03	-4.617987E-03	6
7	1.005378E-02	-2.985997E-05	-1.108483E-03	1.274747E-03	8.267927E-03	4.923372E-03	9
10	-1.784383E-04	-1.195969E-03	8.279954E-03	4.007928E-04	4.808990E-03	2.238924E-03	12
13	1.184178E-02	7.801600E-04	4.089465E-03	-3.228028E-03	2.863680E-03	3.020879E-03	15
16	-2.439088E-03	-3.710162E-04	-1.221138E-03	7.887302E-04	2.725550E-03	3.080488E-03	18
19	6.829592E-03	3.756774E-04	-2.072709E-03	2.545094E-04	4.358038E-03	-4.151388E-03	21
22	7.301055E-03	3.686554E-04	-2.345595E-04	-1.113781E-03	1.572662E-02	-3.309030E-03	24
25	1.073546E-02	5.863815E-04	-6.001838E-04	-1.201742E-03	-1.080321E-02	7.354088E-03	27
28	5.976618E-03	2.868705E-03	-7.822389E-03	8.449536E-03	4.885146E-03	-4.363402E-03	30
31	-8.170323E-01	-6.523324E-03	1.000000E+00	0.000000E+00	3.789162E-01	1.524241E-02	33
34	-8.146572E-01	-6.282702E-03	6.171877E-01	1.080753E-03	-7.336146E-01	-2.888785E-03	36
37	-8.182537E-01	-5.832961E-04	-9.348035E-01	-3.806712E-02	4.456426E-01	-2.508089E-02	39
40	-8.158765E-01	-3.748240E-04	-6.637654E-01	3.796836E-03	-7.701033E-01	4.610863E-03	42
43	1.008783E-02	-1.298337E-03	1.054688E-03	-1.706487E-03	1.383211E-02	-7.926165E-03	45
46	9.108557E-03	1.956598E-04	2.161184E-02	-9.181467E-03	3.919849E-02	-7.574360E-03	48
49	3.117981E-03	1.218686E-03	2.112582E-02	-8.032392E-03	4.908793E-02	-1.305679E-02	51
52	1.563753E-02	-3.320950E-03	2.112544E-02	-8.032336E-03	4.579185E-02	-5.613977E-03	54
55	5.241808E-03	-6.108919E-04	3.127209E-02	-1.380800E-02	2.219881E-02	3.508551E-03	57
58	6.224484E-02	-1.252868E-02	-1.677487E-02	9.127650E-03	-8.841689E-03	8.939316E-03	60
61	1.008005E-01	-1.676188E-02	-1.885872E-02	8.830978E-03	-1.277721E-02	5.264849E-03	63

	COLUMN 18						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-4.052788E-03	-9.154136E-04	-2.248065E-03	2.994382E-04	5.762804E-03	7.773228E-03	3
4	-3.950033E-03	-8.184061E-04	-7.818979E-04	-1.558679E-04	2.728753E-03	1.311439E-03	6
7	-3.339885E-03	2.403685E-04	4.768888E-04	-3.878008E-04	1.028527E-03	-2.855440E-03	9
10	3.174680E-04	6.907194E-05	-2.980198E-03	-6.267880E-06	6.067539E-03	-1.155214E-03	12
13	-8.707557E-03	-2.374248E-04	-9.268465E-04	-7.459141E-05	7.720316E-03	-1.130720E-03	15
16	2.348230E-03	1.434586E-04	3.252509E-04	2.480758E-05	7.962045E-03	-1.187418E-03	18
19	-2.402552E-03	1.774441E-04	3.545275E-04	2.291807E-04	5.255289E-03	2.193262E-03	21
22	-3.309922E-03	5.485716E-04	4.630514E-04	1.068309E-04	3.285992E-03	-1.070518E-03	24
25	-3.223080E-03	-3.239819E-04	2.956311E-04	1.347604E-04	8.585597E-03	-1.128091E-04	27
28	-2.309449E-03	-1.174070E-03	1.655986E-03	-3.286273E-04	6.173635E-03	2.125626E-03	30
31	3.391455E-01	-3.826402E-03	-7.107471E-01	6.647622E-03	-6.327743E-02	-1.589886E-03	33
34	3.377105E-01	-3.983777E-03	1.000000E+00	0.000000E+00	-8.959533E-01	1.332184E-03	36
37	3.401433E-01	-5.863765E-03	7.059359E-01	-9.283866E-03	-7.602674E-02	5.481084E-04	39
40	3.387031E-01	-6.007717E-03	-9.784819E-01	6.849302E-03	-8.789981E-01	6.022247E-03	42
43	-3.312428E-03	4.538098E-04	-8.208591E-04	2.986509E-04	1.431981E-03	3.658946E-03	45
46	-3.918808E-03	-5.810740E-05	-6.154396E-03	-4.731411E-04	-1.580347E-02	6.006997E-04	48
49	-1.943806E-03	1.031209E-03	-6.213789E-03	-6.858359E-04	-2.040160E-02	1.599794E-03	51
52	-4.125009E-03	8.638772E-04	-6.213727E-03	-6.858345E-04	-2.052047E-02	1.761844E-04	54
55	-1.267214E-03	9.217008E-04	-5.396214E-03	4.987789E-04	-1.574613E-02	-3.588888E-03	57
58	-2.838690E-02	-4.346798E-04	1.023719E-03	-9.525941E-04	-3.021723E-04	-2.463345E-03	60
61	-5.270802E-02	-5.047422E-03	1.276786E-03	-7.641304E-04	1.170224E-02	-2.144359E-05	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

COLUMN 19

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.195168E-03	-1.593045E-03	3.204824E-02	1.326618E-02	-3.988898E-03	-5.997258E-05	3
4	-2.638498E-03	-1.905981E-03	1.201002E-02	1.980767E-04	1.224676E-03	4.173035E-03	6
7	-1.280882E-03	-6.533300E-04	-4.197850E-03	-8.214647E-03	-3.222244E-03	-1.621317E-04	9
10	2.123186E-03	-1.185643E-03	9.140015E-04	1.308448E-03	-9.005779E-04	1.175717E-03	12
13	-3.345209E-03	-3.598494E-03	-4.499926E-03	2.391632E-04	2.287738E-03	9.127948E-04	15
16	8.868185E-04	8.370112E-04	1.473345E-03	-1.872198E-04	2.375542E-03	9.466657E-04	18
19	6.815475E-04	5.233443E-04	1.495124E-02	6.351260E-03	-1.219251E-03	-3.304097E-04	21
22	1.658037E-02	1.030476E-02	4.568457E-03	4.439131E-04	-1.936122E-02	5.945411E-03	24
25	-1.584034E-02	-1.078361E-02	4.373922E-03	4.319859E-04	2.284518E-02	-4.863040E-03	27
28	4.273496E-03	2.915041E-03	-1.153393E-02	-6.231848E-03	-2.455776E-04	2.220155E-04	30
31	4.670802E-01	3.838109E-03	-9.460788E-01	1.488805E-02	-9.966396E-01	-7.610222E-05	33
34	4.631149E-01	3.362683E-03	-2.418373E-01	2.662814E-02	3.200864E-01	-1.889014E-02	36
37	-4.649940E-01	-5.963879E-03	-9.483665E-01	1.527746E-02	1.000000E+00	0.000000E+00	39
40	-4.610332E-01	-5.485942E-03	-2.454105E-01	2.623632E-02	-3.218694E-01	1.895469E-02	42
43	-3.026058E-03	1.334822E-04	2.297873E-02	1.348373E-02	-1.034786E-02	-3.220964E-03	45
46	4.402597E-04	3.321288E-04	-2.073451E-02	2.151057E-03	-6.800075E-03	-3.898238E-03	48
49	2.402239E-02	1.067899E-02	-2.006370E-02	3.316897E-03	-1.128365E-02	-8.843481E-03	51
52	-2.602830E-02	-1.172780E-02	-2.006348E-02	3.316864E-03	-7.836622E-03	-1.980420E-03	54
55	2.092675E-04	1.932083E-04	-8.210844E-02	-3.203874E-02	1.197044E-02	8.076162E-03	57
58	-1.518028E-02	-4.999308E-03	3.309842E-02	1.029041E-02	1.014832E-02	5.917638E-03	60
61	-8.118242E-03	1.483499E-02	3.213805E-02	9.741236E-03	-4.446597E-02	-2.685675E-02	63

COLUMN 20

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-3.452835E-03	-3.350933E-03	3.671646E-02	9.806636E-03	1.409644E-02	2.820041E-02	3
4	-4.808984E-03	-3.265464E-03	-6.775757E-03	-3.464040E-03	2.375015E-02	6.859239E-03	6
7	-1.482190E-03	1.858886E-03	-3.598331E-02	-8.897481E-03	-2.569029E-03	-1.400651E-02	9
10	-5.088842E-03	1.299978E-03	3.132384E-03	1.238605E-03	6.420818E-03	-3.736199E-03	12
13	-1.730679E-02	-6.724501E-03	2.717898E-02	-2.587338E-04	9.264709E-04	-2.521518E-03	15
16	4.300358E-03	2.086952E-03	-8.236573E-03	2.068892E-04	9.630003E-04	-2.630681E-03	18
19	3.140551E-03	1.857619E-03	-4.144895E-03	9.076264E-03	6.830119E-03	1.178505E-02	21
22	1.499215E-02	1.402260E-02	-1.541075E-03	3.190068E-03	6.152959E-02	-4.952772E-03	24
25	-1.605634E-02	-1.413655E-02	-1.362080E-03	3.265814E-03	-6.033485E-02	3.996910E-03	27
28	6.422962E-03	3.121651E-05	-1.727402E-03	-5.318758E-03	7.219369E-03	1.200956E-02	30
31	9.440087E-02	-4.038725E-02	-3.932340E-01	9.886188E-02	-2.490895E-01	7.970224E-02	33
34	9.308679E-02	-4.017814E-02	9.987517E-01	-2.205090E-03	-8.795652E-01	1.118808E-02	36
37	-1.286723E-01	3.098691E-03	-3.961865E-01	8.948926E-02	2.522837E-01	-6.901059E-02	39
40	-1.272070E-01	3.067726E-03	1.000000E+00	0.000000E+00	8.833624E-01	-5.712267E-03	42
43	3.121985E-03	1.271647E-03	-4.493692E-03	1.359283E-02	6.285733E-03	1.044568E-02	45
46	2.328361E-03	3.825297E-04	-1.900101E-02	-1.386370E-02	-2.306232E-02	-1.558077E-02	48
49	1.101596E-02	2.038101E-02	-1.490479E-02	-1.389197E-02	-4.922592E-02	-2.223773E-02	51
52	1.931691E-03	-9.192482E-03	-1.490465E-02	-1.389185E-02	-1.741891E-02	-2.161669E-02	54
55	5.630506E-03	6.077073E-03	-2.112622E-02	-4.257948E-02	-2.327159E-02	-2.258851E-02	57
58	-3.223222E-02	-3.192901E-02	1.467985E-03	1.085352E-02	6.982033E-05	-3.001153E-03	60
61	-8.006983E-02	-8.011445E-02	1.602603E-03	1.127652E-02	2.136898E-02	-2.359828E-03	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

COLUMN 21

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	1.549482E-02	-5.175115E-04	5.133438E-02	2.925975E-02	-2.676538E-01	-1.972124E-02	3
4	9.746764E-03	-1.790238E-03	1.652545E-02	-1.482919E-03	-6.210486E-03	1.283385E-02	6
7	-1.993397E-02	-7.127639E-03	-1.755808E-02	-2.126740E-02	1.191631E-01	6.902614E-03	9
10	-1.591182E-02	-4.465065E-03	4.909174E-03	2.943808E-03	4.260352E-02	3.497015E-03	12
13	-7.126087E-03	-6.014866E-03	-7.104949E-03	5.421483E-03	3.701081E-02	6.305802E-04	15
16	-2.153167E-03	4.334974E-04	4.559970E-04	-2.098470E-03	3.874296E-02	3.289262E-04	18
19	-9.136946E-03	6.333152E-04	1.830937E-03	1.075309E-02	-1.191243E-01	5.701755E-04	21
22	5.480513E-03	2.137803E-02	-1.238037E-02	-1.420794E-03	7.647585E-02	1.755020E-02	24
25	-1.207329E-02	-2.511739E-02	-1.313008E-02	-1.095132E-03	-5.661868E-02	-1.333526E-02	27
28	4.832987E-02	1.086265E-02	-9.950472E-03	-9.692329E-03	-1.146276E-01	1.033783E-03	30
31	1.068775E-01	1.642142E-02	-1.798690E-02	-2.904962E-02	-1.145014E-01	-3.829714E-02	33
34	1.062643E-01	1.632960E-02	9.491320E-02	2.092385E-01	-1.309808E-01	-1.792777E-01	36
37	1.056493E-01	3.828103E-02	1.683030E-01	1.629148E-01	7.989213E-03	-1.402149E-01	39
40	1.050921E-01	3.770157E-02	1.381770E-01	1.881594E-01	1.186617E-01	1.658488E-01	42
43	-1.366518E-02	-7.150226E-05	3.687518E-02	2.720543E-02	-1.521133E-01	-1.350128E-02	45
46	5.281918E-03	3.724365E-03	1.042360E-01	5.392449E-03	1.104487E-01	-9.980077E-03	48
49	-3.821742E-02	2.773798E-02	1.158835E-01	1.068261E-02	1.199620E-01	-4.471370E-02	51
52	-7.462835E-02	-2.437891E-02	1.158824E-01	1.068265E-02	1.884725E-01	-1.270302E-02	54
55	-4.983080E-02	-5.890721E-03	-4.734654E-02	-9.166892E-02	3.371377E-01	2.515680E-02	57
58	2.447733E-01	7.183763E-03	6.720472E-02	2.744327E-02	1.190434E-01	5.182639E-03	60
61	1.000000E+00	0.000000E+00	5.854274E-02	2.248847E-02	-3.558635E-01	-4.072560E-02	63

COLUMN 22

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-3.931059E-02	-1.275376E-02	2.425798E-01	-3.774058E-02	1.538531E-01	-1.245450E-02	3
4	-4.312480E-02	-1.038898E-02	-2.953885E-03	2.318461E-03	8.525743E-02	-3.783959E-02	6
7	-2.553867E-03	-6.135333E-03	-1.558792E-01	3.398407E-02	-9.712119E-02	5.023858E-03	9
10	-1.051403E-02	-1.078961E-02	3.019716E-02	-1.811051E-02	1.109235E-03	-1.768298E-03	12
13	-1.716188E-01	1.708960E-01	-6.278154E-02	4.221501E-02	2.161023E-02	-2.294086E-02	15
16	4.349172E-02	-4.202677E-02	1.630474E-02	-1.304287E-02	2.255743E-02	-2.425466E-02	18
19	3.209837E-02	-2.008527E-02	1.488589E-01	-2.423608E-02	4.107488E-02	2.819087E-02	21
22	2.289296E-01	-4.578408E-02	2.415085E-02	-1.804247E-02	2.157898E-02	-2.805551E-02	24
25	-2.207461E-01	1.899342E-02	2.305150E-02	-1.734713E-02	8.558487E-03	3.499506E-02	27
28	9.624664E-02	-6.428509E-02	-7.617266E-02	8.689521E-04	4.868152E-02	2.626691E-02	30
31	-1.819831E-01	-1.893773E-01	9.441835E-01	1.983352E-01	6.694442E-01	1.852199E-01	33
34	-1.786142E-01	-1.878806E-01	-2.357568E-01	-2.424109E-01	3.540301E-01	1.443433E-01	36
37	3.097237E-03	2.409213E-01	1.000000E+00	0.000000E+00	-6.772352E-01	4.126701E-02	39
40	3.800137E-04	2.396181E-01	-2.518918E-01	-2.922268E-01	-3.292667E-01	-1.458456E-01	42
43	2.029303E-02	-1.090228E-02	2.808170E-01	-3.209461E-02	-4.517455E-02	6.126163E-02	45
46	2.956273E-02	-2.723659E-02	-4.020357E-02	3.531858E-02	-1.597419E-01	-7.618405E-02	48
49	3.185161E-01	-7.398732E-02	-1.667491E-02	3.322958E-02	-3.289352E-01	1.952264E-02	51
52	-2.392037E-01	2.161003E-02	-1.667508E-02	3.322931E-02	-1.700225E-01	-8.161791E-03	54
55	4.249653E-02	-1.008589E-02	-7.501295E-01	8.218822E-02	5.887973E-02	-6.802774E-02	57
58	-2.406023E-01	-4.197073E-02	2.341125E-01	-3.474592E-02	1.247154E-01	-3.983150E-02	60
61	-1.088709E-01	-1.055986E-01	2.248814E-01	-3.297794E-02	-4.504408E-01	4.355082E-02	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

COLUMN 23

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.027405E-03	5.934629E-04	1.089557E-03	6.065961E-04	2.640061E-03	-6.317996E-03	3
4	-1.985912E-03	4.815043E-04	-3.788225E-04	3.112136E-04	1.030902E-03	-4.346551E-04	6
7	-1.021202E-03	-6.282165E-05	-1.124003E-03	-4.750577E-05	-3.088847E-04	2.944256E-03	9
10	3.668985E-04	-4.485082E-04	-1.997080E-03	-1.548942E-04	-3.883052E-03	7.956280E-04	12
13	-1.332667E-02	3.702105E-03	2.758853E-04	7.160897E-04	-3.439107E-03	2.154742E-04	15
16	2.736782E-03	-9.811490E-04	-2.356807E-05	-2.425025E-04	-3.629884E-03	2.278158E-04	18
19	-2.195978E-03	-8.319939E-04	1.517055E-03	-1.374229E-04	-1.629715E-03	-2.003736E-03	21
22	4.991787E-04	-1.441214E-04	5.787324E-04	-4.187389E-04	-2.703405E-03	9.472905E-04	24
25	-3.380999E-03	-2.944452E-05	6.378863E-04	-4.210260E-04	-3.392891E-03	-8.330547E-04	27
28	-6.433208E-03	-1.892848E-03	-1.728232E-03	-2.524902E-04	-1.624225E-03	-2.012764E-03	30
31	2.525639E-01	1.844072E-03	8.806843E-01	4.724367E-04	1.000000E+00	0.000000E+00	33
34	2.541602E-01	2.148709E-03	9.013634E-02	3.140674E-03	3.232625E-02	-4.166899E-03	36
37	2.482804E-01	3.754451E-03	-8.852425E-01	-4.721324E-03	9.788361E-01	4.837808E-03	39
40	2.498291E-01	4.050628E-03	-9.332764E-02	3.229821E-03	2.447894E-02	3.787357E-03	42
43	-1.826005E-03	-7.830357E-04	2.259397E-03	2.934519E-04	1.672610E-03	-1.115658E-03	45
46	-2.103651E-03	-8.427720E-04	-1.415793E-03	1.578528E-03	5.984494E-05	2.187681E-03	48
49	-3.293765E-04	-1.954245E-03	-1.243410E-03	1.796240E-03	-5.315037E-04	2.708909E-03	51
52	-4.678604E-03	-1.895214E-03	-1.243370E-03	1.796229E-03	8.475678E-04	4.317920E-03	54
55	-1.358620E-03	-1.323016E-03	-4.715570E-03	4.878966E-04	-4.157414E-03	3.294867E-03	57
58	-3.883303E-03	2.343236E-03	1.136363E-04	1.023442E-04	-2.784280E-03	8.107130E-04	60
61	-1.413540E-02	1.023570E-02	2.560748E-04	8.457605E-05	-9.457389E-04	-3.934015E-03	63

COLUMN 24

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-7.253062E-02	3.968068E-02	3.723782E-01	3.820957E-02	-2.388620E-01	-2.879586E-01	3
4	-8.388898E-02	3.287866E-02	2.866696E-02	6.233837E-03	3.851139E-02	4.604422E-03	6
7	-6.960028E-02	-4.153995E-03	-2.134987E-01	-1.288942E-02	2.521182E-02	1.273110E-01	9
10	-6.661727E-02	-2.451744E-02	-5.417817E-02	-4.118026E-02	3.894706E-02	-1.333052E-02	12
13	5.788954E-01	4.581879E-01	5.515231E-02	6.174419E-02	-4.319212E-02	-7.276778E-02	15
16	-1.442822E-01	-1.128054E-01	-2.320589E-02	-1.965347E-02	-4.623202E-02	-7.685035E-02	18
19	-7.017358E-02	-7.848148E-02	1.642150E-01	3.081752E-02	7.959827E-02	4.028294E-02	21
22	2.283517E-01	2.921190E-02	-1.874694E-02	-1.780744E-02	2.260768E-02	-2.178057E-02	24
25	-3.652318E-01	-8.884249E-02	-1.841796E-02	-1.586552E-02	7.895917E-02	-7.435218E-03	27
28	-1.376209E-01	-2.574575E-01	-8.058024E-02	-4.459824E-02	8.280146E-02	3.803726E-02	30
31	9.637792E-02	-1.767861E-01	1.000000E+00	0.000000E+00	8.485054E-01	-1.334709E-01	33
34	9.932674E-02	-1.755842E-01	5.063216E-02	-7.000906E-02	1.789413E-01	-3.558993E-02	36
37	8.187209E-02	3.179023E-01	6.672132E-01	3.095282E-02	-4.251283E-01	3.224247E-02	39
40	7.905521E-02	3.158569E-01	-1.402386E-01	-1.075503E-01	-1.697198E-01	-1.291430E-02	42
43	-7.805089E-02	-6.332314E-02	3.336489E-01	7.611481E-02	6.145780E-02	1.614047E-01	45
46	-8.361421E-02	-1.017116E-01	-7.848373E-03	1.525248E-02	-1.535554E-01	-3.463576E-03	48
49	2.178750E-01	-4.487488E-02	3.138713E-02	3.116763E-02	-4.148153E-01	-3.965396E-02	51
52	-4.791754E-01	-1.657898E-01	3.138778E-02	3.118804E-02	-1.035414E-01	6.877880E-02	54
55	-5.468100E-02	-5.662847E-02	-8.088802E-01	-1.844119E-01	-4.957742E-02	-1.837891E-01	57
58	-3.778589E-01	-2.115424E-01	1.948452E-01	-5.776152E-03	4.322984E-02	-1.007034E-01	60
61	-4.431159E-01	-5.475877E-01	1.883008E-01	-7.238559E-04	-5.443564E-01	-7.077862E-02	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE-MATRIX ... UAV

COLUMN 25

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-7.701222E-03	-9.484904E-03	4.166251E-02	-5.873198E-04	3.485427E-02	2.968992E-02	3
4	-7.248889E-03	-7.583356E-03	5.517263E-03	2.167315E-03	-3.889741E-03	-1.554616E-02	6
7	-2.174227E-03	-2.507758E-03	-2.373127E-02	3.036158E-03	-2.350282E-02	-1.361848E-02	9
10	-2.709815E-02	-1.337378E-02	2.274300E-03	-5.058706E-04	-8.021271E-03	2.457462E-04	12
13	-2.086383E-02	5.157104E-04	8.225582E-02	4.390063E-02	5.948359E-03	5.744984E-03	15
16	6.354295E-03	3.684310E-04	-2.628868E-02	-1.398240E-02	6.384101E-03	6.138853E-03	18
19	3.145747E-03	2.359514E-03	2.139868E-03	-1.850068E-02	1.129567E-03	-2.301596E-03	21
22	2.994863E-02	-1.263759E-02	-2.515099E-02	-1.865557E-02	-9.175358E-02	-4.131336E-02	24
25	-2.364658E-02	1.371819E-02	-2.578048E-02	-1.892657E-02	9.768832E-02	4.885483E-02	27
28	5.723573E-03	7.130884E-03	5.140485E-03	8.890931E-03	7.858077E-05	-3.172935E-03	30
31	-6.918853E-01	5.399525E-03	-8.178806E-01	-2.824542E-02	-9.778027E-01	1.821219E-02	33
34	-6.918585E-01	5.279265E-03	-2.504839E-01	-2.151365E-02	-5.309228E-02	9.110609E-03	36
37	6.897297E-01	-4.509557E-03	-8.268342E-01	-3.490143E-02	1.000000E+00	0.000000E+00	39
40	6.895875E-01	-4.333725E-03	-2.544832E-01	-2.671868E-02	5.868102E-02	-6.003323E-03	42
43	4.123052E-03	3.084219E-03	1.872172E-02	-2.433854E-02	-8.834543E-03	-9.196468E-03	45
46	3.053483E-03	2.776824E-03	1.505955E-02	1.006641E-02	-9.960060E-03	-3.816755E-04	48
49	2.522831E-02	-2.292194E-02	1.183706E-02	5.362571E-03	-6.147770E-04	2.136376E-02	51
52	-1.555471E-02	2.764136E-02	1.183678E-02	5.362446E-03	-3.887121E-02	-2.262480E-02	54
55	3.937288E-03	9.867614E-04	-4.381814E-02	4.648003E-02	1.054532E-02	1.088192E-02	57
58	-1.571686E-02	1.388822E-02	1.585002E-02	-6.203235E-03	1.389378E-02	5.776102E-03	60
61	1.852479E-02	6.090279E-02	1.538482E-02	-6.554498E-03	-4.878579E-02	9.078260E-03	63

COLUMN 26

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-3.222492E-02	-2.389388E-03	1.053244E-01	-3.877431E-02	7.532798E-02	-2.997128E-02	3
4	-2.884723E-02	-1.991726E-03	1.285782E-02	-1.076603E-02	-2.383126E-02	6.271926E-04	6
7	-1.330897E-02	-1.397305E-03	-5.480837E-02	1.868560E-02	-5.752319E-02	2.082227E-02	9
10	-9.539800E-02	5.103737E-02	-8.658224E-04	-4.893504E-03	-1.432948E-02	1.768514E-02	12
13	-1.732407E-02	5.931324E-02	2.688194E-01	-1.278156E-01	2.858457E-02	-1.077840E-02	15
16	7.565088E-03	-1.847178E-02	-8.753703E-02	4.221028E-02	3.081536E-02	-1.158625E-02	18
19	6.749588E-03	-8.127468E-03	-6.894219E-02	3.400154E-02	-2.202838E-02	1.255479E-02	21
22	2.930458E-03	-3.319767E-04	-1.046152E-01	5.752981E-02	-3.328368E-01	1.793798E-01	24
25	7.383881E-03	-1.867585E-02	-1.053184E-01	5.828448E-02	3.844788E-01	-1.775324E-01	27
28	1.623570E-02	-3.783838E-03	4.678627E-02	-2.583557E-02	-2.716520E-02	1.573598E-02	30
31	5.290224E-01	3.675775E-02	6.718097E-01	6.574186E-02	1.000000E+00	0.000000E+00	33
34	5.295068E-01	3.882622E-02	-5.855151E-02	1.154348E-01	2.283918E-01	-5.187810E-02	36
37	-5.352190E-01	-2.163807E-02	6.841451E-01	3.619880E-02	-9.938848E-01	3.611565E-02	39
40	-5.358383E-01	-2.187803E-02	-5.276019E-02	9.888820E-02	-2.200057E-01	5.317344E-02	42
43	3.725432E-03	-1.060500E-02	-7.581076E-02	2.935810E-02	-6.397868E-02	1.910831E-02	45
46	9.817129E-03	-7.852565E-03	3.158329E-03	-2.099385E-02	1.411658E-02	-6.736397E-03	48
49	-7.089150E-02	1.503208E-02	-3.186709E-02	-7.884417E-03	1.932915E-01	-8.119403E-02	51
52	8.043501E-02	-4.183598E-02	-3.186852E-02	-7.884133E-03	-1.410098E-01	5.456007E-02	54
55	-4.876182E-04	-7.120167E-03	1.351307E-01	-4.403074E-02	3.663852E-02	-1.424028E-02	57
58	8.637889E-02	-1.825127E-02	-6.332915E-03	4.053239E-05	4.713053E-03	-8.247482E-03	60
61	1.244952E-01	-6.992902E-02	-6.715324E-03	-1.849466E-04	5.772670E-02	1.137002E-03	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 27						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-1.743801E-01	-1.694476E-03	-9.334911E-03	-1.822033E-02	4.540230E-01	-8.579192E-02	3
4	-1.508294E-01	-1.759524E-03	2.092362E-02	7.303784E-03	-1.578242E-01	-5.474717E-03	6
7	-7.243070E-02	7.639653E-03	2.983674E-02	1.358013E-02	-2.180584E-01	4.889415E-02	9
10	-5.872228E-03	-1.131813E-03	-3.004055E-02	-1.931467E-03	7.435987E-02	5.790206E-04	12
13	1.721291E-01	7.405064E-02	-2.022304E-02	-1.712988E-02	4.068385E-02	-1.980810E-02	15
16	-4.292946E-02	-1.962562E-02	4.482084E-03	4.831232E-03	4.388685E-02	-2.229587E-02	18
19	1.096135E-02	4.580766E-03	-4.305389E-02	1.055645E-03	1.011844E-01	1.756745E-03	21
22	-1.250302E-01	2.543176E-03	-1.059625E-02	-1.225136E-03	2.024114E-01	5.038400E-02	24
25	-6.383263E-03	2.677812E-02	-9.301356E-03	-5.986611E-03	-7.545211E-02	-1.648448E-02	27
28	2.264162E-01	-7.280937E-02	3.278990E-02	-1.141710E-02	1.031972E-01	2.683950E-03	30
31	6.731429E-02	8.305595E-02	8.060103E-02	9.543526E-02	3.231055E-01	1.015166E-01	33
34	6.793859E-02	8.304677E-02	1.686715E-01	8.311010E-02	-2.327868E-02	-7.017185E-02	36
37	-5.124326E-02	-6.940848E-02	-1.359841E-01	1.557699E-02	1.593970E-01	-3.612311E-02	39
40	-5.030070E-02	-6.911417E-02	-4.185107E-02	7.398318E-02	1.364787E-01	4.273873E-02	42
43	1.295535E-02	1.530903E-02	-3.821158E-02	1.705014E-02	-5.979332E-02	5.137721E-02	45
46	1.527551E-02	4.518810E-03	1.289273E-01	3.499523E-02	-2.354095E-01	-3.612935E-02	48
49	-3.814843E-02	5.969018E-02	1.525672E-01	5.602207E-02	-6.741623E-01	-5.136133E-02	51
52	3.295508E-02	-3.742134E-03	1.525634E-01	5.802110E-02	-3.897962E-01	1.219847E-01	54
55	7.735196E-03	1.545601E-02	4.976830E-03	-7.938206E-02	1.901462E-01	-1.332334E-02	57
58	-2.064455E-01	-2.741625E-02	8.774601E-02	1.370860E-02	2.727487E-01	-2.310751E-03	60
61	1.000000E+00	0.000000E+00	7.253696E-02	3.311127E-03	-4.946347E-01	-5.050847E-02	63

	COLUMN 28						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-4.403495E-02	-5.177730E-02	5.127575E-02	5.142380E-02	-2.188185E-02	2.849184E-02	3
4	-4.572866E-02	-4.943295E-02	-8.011765E-03	-4.515020E-03	9.005034E-03	-1.292129E-02	6
7	-4.244686E-02	-3.135659E-02	-4.209841E-02	-3.372970E-02	-1.509432E-02	-2.843319E-02	9
10	1.457506E-02	1.065172E-02	-2.384688E-02	-8.301327E-03	1.083507E-02	2.153719E-02	12
13	2.015305E-02	5.206848E-02	-4.307317E-03	-1.545758E-02	6.733516E-03	1.315773E-02	15
16	-7.325644E-03	-1.367746E-02	2.885797E-03	5.766930E-03	7.812752E-03	1.439840E-02	18
19	-1.880442E-02	-3.835854E-03	2.321711E-02	3.786438E-02	-2.024485E-02	-1.169884E-02	21
22	4.687058E-02	4.858314E-02	2.950011E-02	2.446198E-02	-3.004978E-03	5.039538E-02	24
25	-1.211512E-01	-8.751447E-02	3.384552E-02	2.417017E-02	-5.317232E-03	-1.938521E-02	27
28	1.598429E-01	8.879875E-02	1.754707E-02	2.381778E-03	-1.526866E-02	-7.017431E-03	30
31	-2.186855E-03	-2.149343E-02	1.784396E-02	3.361527E-02	1.826280E-02	2.821400E-02	33
34	-2.157988E-03	-2.117123E-02	1.129639E-02	1.334204E-02	5.805898E-02	3.752919E-02	36
37	3.278652E-02	5.269721E-02	4.811719E-03	-7.467835E-03	1.937825E-02	5.480347E-02	39
40	3.259203E-02	5.244331E-02	6.846309E-03	-1.235740E-02	-4.503397E-02	-1.933773E-02	42
43	-4.458965E-02	-3.067631E-02	-1.881231E-02	2.171381E-02	-7.867940E-02	-4.590180E-02	45
46	-3.228211E-02	-9.618230E-03	-1.032929E-01	-9.825794E-02	2.279851E-01	1.213821E-01	48
49	-1.768366E-01	1.952676E-02	-1.494424E-01	-1.034299E-01	1.000000E+00	0.000000E+00	51
52	-7.477004E-02	-6.116307E-02	-1.494360E-01	-1.034277E-01	4.170821E-01	1.919038E-01	54
55	-5.607889E-02	-4.146236E-02	1.298482E-01	6.258547E-02	-2.262119E-02	-2.360408E-03	57
58	3.378830E-01	1.722126E-01	-6.600005E-02	-4.893982E-02	-2.223805E-01	-9.640332E-02	60
61	-4.912008E-01	-3.058299E-01	-5.978214E-02	-3.589468E-02	5.228314E-01	2.584512E-01	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 29						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	5.528919E-02	-4.285988E-03	6.212157E-02	-5.340506E-02	1.000000E+00	0.000000E+00	3
4	5.477598E-02	-3.845672E-03	3.613957E-02	-3.116798E-02	8.910173E-01	-8.424708E-02	6
7	5.477348E-02	-3.845181E-03	1.089732E-02	-9.528050E-03	7.854916E-01	-1.664315E-01	9
10	-2.864537E-02	2.339458E-02	1.025123E-01	3.242173E-02	6.515639E-01	-2.713903E-01	12
13	1.532555E-01	6.380528E-02	-4.106199E-02	3.109213E-02	6.484430E-01	-2.795588E-01	15
16	3.119713E-01	1.873683E-01	-7.190121E-02	5.089422E-02	6.484430E-01	-2.795588E-01	18
19	1.020393E-01	2.391643E-02	-5.875998E-02	4.837375E-02	5.329599E-01	-3.694758E-01	21
22	6.913479E-02	5.163430E-02	-3.328832E-02	2.857902E-02	6.126380E-01	-2.698232E-01	24
25	1.343914E-01	-4.233342E-03	-3.328924E-02	2.857915E-02	8.655823E-01	-3.038254E-01	27
28	1.526909E-01	6.335401E-02	-5.749514E-02	5.374603E-02	5.375783E-01	-3.658791E-01	30
31	-5.107142E-02	-5.914957E-02	4.400428E-02	-3.415946E-02	8.378285E-01	-1.085300E-01	33
34	-5.107142E-02	-5.914957E-02	-2.488644E-02	2.488988E-02	5.498478E-01	-3.308319E-01	36
37	-6.830693E-03	-9.702569E-02	4.400568E-02	-3.415964E-02	8.737270E-01	-1.295834E-01	39
40	-6.830682E-03	-9.702569E-02	-2.488628E-02	2.488988E-02	5.857470E-01	-3.538838E-01	42
43	7.044873E-02	1.231015E-02	-8.140767E-02	6.874555E-02	4.127400E-01	-4.539175E-01	45
46	5.622277E-02	-1.175748E-02	-1.339534E-01	1.146519E-01	1.817512E-01	-6.429323E-01	48
49	1.004752E-01	-5.553773E-03	-1.387898E-01	1.176710E-01	1.974611E-01	-6.506243E-01	51
52	6.591021E-02	2.403743E-02	-1.387898E-01	1.176710E-01	1.894134E-01	-6.326146E-01	54
55	8.032181E-02	7.006483E-03	-1.846870E-01	1.570659E-01	-1.048922E-02	-7.926142E-01	57
58	2.304172E-01	1.205556E-01	-2.330953E-01	1.923693E-01	-9.084825E-02	-8.575994E-01	60
61	2.374491E-01	1.126325E-01	-2.327746E-01	1.921431E-01	-8.390063E-02	-8.615624E-01	63

	COLUMN 30						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	2.756048E-02	-1.155106E-03	-2.818995E-01	-1.321078E-05	4.836896E-02	-1.365780E-02	3
4	2.998890E-02	-1.152600E-03	-1.843294E-01	1.154518E-04	4.414646E-02	-1.535081E-02	6
7	2.998877E-02	-1.152590E-03	-4.899457E-02	2.398034E-04	3.888372E-02	-1.698123E-02	9
10	1.198543E-01	8.961788E-05	2.985674E-02	-4.265867E-04	3.084289E-02	-1.903990E-02	12
13	9.835422E-03	2.558018E-04	1.553044E-01	-3.037237E-04	1.887134E-02	-1.899152E-02	15
16	1.760853E-02	2.706875E-03	2.439692E-01	-1.516994E-03	1.887134E-02	-1.899152E-02	18
19	7.065183E-03	-5.354510E-04	2.517858E-01	2.249154E-04	1.307086E-02	-2.077480E-02	21
22	1.548668E-01	-3.780865E-04	1.366408E-01	1.011731E-04	9.452554E-02	-2.017767E-02	24
25	-1.405641E-01	-7.013984E-04	1.368408E-01	1.011908E-04	-5.771972E-02	-1.809367E-02	27
28	9.609339E-03	2.488863E-04	2.750760E-01	-1.678950E-04	1.330288E-02	-2.070347E-02	30
31	1.005634E-01	-2.449368E-03	-1.711679E-01	8.456848E-04	8.089205E-02	-1.849566E-02	33
34	1.005634E-01	-2.449368E-03	1.408750E-01	1.185438E-03	6.642894E-02	-2.094370E-02	36
37	-9.959118E-02	-2.867913E-03	-1.711677E-01	8.456553E-04	-2.232545E-02	-1.507923E-02	39
40	-9.959118E-02	-2.867915E-03	1.408750E-01	1.185432E-03	-3.678728E-02	-1.953050E-02	42
43	4.183086E-02	-8.612239E-04	3.618194E-01	5.406111E-04	2.589688E-02	-2.278537E-02	45
46	4.763823E-03	-1.242855E-03	6.088403E-01	9.918858E-04	-4.569517E-03	-2.819807E-02	48
49	-7.206783E-02	-9.120517E-04	6.198798E-01	7.834427E-04	-4.480402E-02	-2.582008E-02	51
52	8.430498E-02	-7.409265E-04	6.198798E-01	7.834427E-04	3.583416E-02	-2.672389E-02	54
55	5.974387E-03	-8.708209E-04	8.283484E-01	1.035228E-03	-1.422545E-02	-2.916881E-02	57
58	4.229182E-03	1.405574E-03	1.000000E+00	0.000000E+00	-2.308445E-02	-3.038983E-02	60
61	-3.290852E-02	1.347407E-03	9.889219E-01	8.411521E-05	-4.218555E-02	-3.010184E-02	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

COLUMN 31

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	8.305505E-01	2.545260E-02	1.575857E-02	-1.527280E-03	-5.414809E-01	1.034404E-02	3
4	8.304237E-01	2.546931E-02	9.756902E-03	-6.693308E-04	-3.886793E-01	8.147582E-03	6
7	8.304191E-01	2.546901E-02	3.777387E-03	1.603580E-04	-2.403715E-01	8.052854E-03	9
10	-1.903277E-03	-2.348528E-04	7.842332E-01	2.594088E-02	-5.081253E-02	6.758720E-03	12
13	7.008442E-01	2.824529E-02	-2.918796E-04	-1.869423E-03	-4.157758E-02	7.388563E-03	15
16	4.776389E-01	2.788170E-02	6.081811E-03	-7.245396E-03	-4.157758E-02	7.388563E-03	18
19	7.730515E-01	2.572008E-02	-8.724562E-03	7.781708E-04	1.208017E-01	6.192345E-03	21
22	7.858409E-01	2.679508E-02	-2.869559E-03	-5.110621E-05	-2.294437E-02	2.678170E-03	24
25	7.809864E-01	2.664042E-02	-2.882149E-03	-5.152596E-05	-3.388404E-02	1.190814E-02	27
28	7.018411E-01	2.624501E-02	-6.432327E-03	-9.735755E-04	1.143073E-01	6.240222E-03	30
31	9.523512E-01	2.509892E-02	3.820384E-03	2.685658E-03	-3.305486E-01	6.372433E-03	33
34	9.523512E-01	2.509892E-02	-1.206673E-02	4.939349E-03	7.585788E-02	3.427832E-03	36
37	9.625428E-01	2.363958E-02	3.838310E-03	2.666133E-03	-3.378454E-01	1.263743E-02	39
40	9.625430E-01	2.363958E-02	-1.206458E-02	4.939450E-03	6.821635E-02	9.685126E-03	42
43	8.044678E-01	2.573758E-02	-1.596071E-02	2.477796E-03	2.820834E-01	3.889376E-03	45
46	8.374739E-01	2.524557E-02	-2.897103E-02	5.104818E-03	6.146012E-01	2.554200E-03	48
48	8.035409E-01	2.495460E-02	-2.879403E-02	4.178151E-03	6.093300E-01	5.015978E-03	51
52	7.856657E-01	2.609527E-02	-2.879403E-02	4.178151E-03	6.151312E-01	1.273943E-04	54
55	8.035898E-01	2.549517E-02	-3.962340E-02	5.807811E-03	8.848988E-01	5.632263E-04	57
58	5.958714E-01	2.896160E-02	-3.821013E-02	1.442344E-03	1.000000E+00	0.000000E+00	60
61	5.993994E-01	2.667880E-02	-3.823508E-02	1.478657E-03	9.980897E-01	1.183436E-03	63

COLUMN 32

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.915770E-02	3.486442E-03	2.649582E-01	-3.200288E-03	1.038221E-01	-4.138030E-03	3
4	-3.190964E-02	3.577384E-03	1.254805E-01	1.390351E-03	1.137123E-01	-3.915514E-03	6
7	-3.189574E-02	3.578538E-03	-1.001033E-02	5.851872E-03	1.131008E-01	-3.600784E-03	9
10	2.113160E-02	9.488025E-03	-2.874308E-02	3.340855E-03	1.014714E-01	-3.084887E-03	12
13	-1.775234E-03	2.325482E-03	2.483739E-01	7.434707E-03	3.020867E-03	-2.080590E-03	15
16	-1.064753E-03	1.856173E-03	1.000000E+00	0.000000E+00	3.020867E-03	-2.080590E-03	18
19	-2.054929E-03	2.476774E-03	-1.425376E-01	1.473601E-02	2.492526E-03	-1.739088E-03	21
22	-1.771324E-01	8.244731E-03	-7.488456E-03	1.028011E-02	5.461647E-01	-8.488703E-03	24
25	1.730164E-01	-3.289084E-03	-7.488490E-03	1.028004E-02	-6.422085E-01	4.382878E-03	27
28	-1.824268E-03	2.327263E-03	1.032089E-01	1.214331E-02	2.513154E-03	-1.752564E-03	30
31	-1.212700E-01	6.766821E-03	-3.484463E-01	7.324000E-03	4.419250E-01	-7.108073E-03	33
34	-1.212707E-01	6.766556E-03	-7.180494E-01	1.946300E-02	4.400905E-01	-6.215408E-03	36
37	1.159329E-01	-1.036521E-03	-3.484471E-01	7.323907E-03	-4.338587E-01	1.714219E-03	39
40	1.159336E-01	-1.036557E-03	-7.180494E-01	1.846297E-02	-4.348003E-01	2.532093E-03	42
43	-4.480030E-02	3.950378E-03	-4.005312E-01	2.066613E-02	1.591115E-01	-2.973888E-03	45
46	-2.265255E-03	2.612321E-03	-8.106332E-01	3.175880E-02	8.796610E-04	-7.001320E-04	48
48	9.058032E-02	-5.204133E-04	-6.807743E-01	3.040952E-02	-3.408447E-01	2.714933E-03	51
52	-9.486324E-02	6.585475E-03	-6.807743E-01	3.040952E-02	3.426185E-01	-4.125174E-03	54
55	-2.154648E-03	2.541027E-03	-9.434948E-01	3.875180E-02	-2.815730E-06	-1.313012E-04	57
58	9.415410E-03	1.740082E-03	-3.479278E-01	3.518079E-02	-4.051387E-02	5.185779E-04	60
61	5.338578E-02	2.837899E-04	-3.529320E-01	3.521988E-02	-2.025788E-01	2.156606E-03	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

COLUMN 33

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.116511E-02	1.293216E-03	9.150286E-01	-2.663443E-02	-4.887106E-02	-4.548779E-03	3
4	-2.317771E-02	1.416779E-03	8.126887E-01	-2.035094E-02	-5.488481E-02	-4.907611E-03	6
7	-2.324433E-02	1.417533E-03	7.130508E-01	-1.424495E-02	-5.582479E-02	-4.809472E-03	9
10	4.781660E-01	-1.518968E-02	-2.053369E-02	1.241366E-03	-5.073366E-02	-4.231518E-03	12
13	-4.686552E-04	-5.699031E-06	3.471460E-01	-2.489328E-02	8.590717E-04	-9.737133E-06	15
16	1.080221E-03	-1.464418E-04	-4.752871E-02	-5.722820E-02	8.590722E-04	-8.737162E-06	18
19	-1.058483E-03	4.455482E-05	3.657815E-01	-7.810207E-03	-2.219928E-04	9.300523E-05	21
22	-1.292072E-01	7.924899E-03	4.685521E-01	-1.389744E-02	-3.379549E-01	-2.763384E-02	24
25	1.271133E-01	-7.835953E-03	4.655502E-01	-1.389736E-02	3.394882E-01	2.763105E-02	27
28	-5.704365E-04	-8.877142E-07	2.440971E-01	-1.834587E-02	-1.884784E-04	8.660400E-05	30
31	-8.984639E-02	5.514325E-03	1.000000E+00	0.000000E+00	-2.303171E-01	-1.887891E-02	33
34	-8.984367E-02	5.514295E-03	7.245778E-01	1.673237E-02	-2.299088E-01	-1.886598E-02	36
37	8.530426E-02	-5.191538E-03	9.899849E-01	3.948059E-07	2.380678E-01	1.848116E-02	39
40	8.530144E-02	-5.191504E-03	7.245747E-01	1.673245E-02	2.301211E-01	1.879055E-02	42
43	-3.257850E-02	1.988419E-03	3.172858E-01	3.567728E-03	-8.385178E-02	-6.533626E-03	45
46	-1.483053E-03	8.520229E-05	1.485401E-01	2.180226E-02	-3.464281E-03	4.046404E-04	48
48	6.683658E-02	-4.115786E-03	8.302120E-02	1.623951E-02	1.761496E-01	1.502887E-02	51
52	-6.830355E-02	4.238399E-03	8.302120E-02	1.623951E-02	-1.830470E-01	-1.422257E-02	54
55	-1.280087E-03	6.383002E-05	-9.273221E-02	2.804104E-02	-5.242474E-03	5.745564E-04	57
58	8.101031E-03	-5.522961E-04	-5.386625E-01	2.842738E-03	1.509689E-02	2.358677E-03	60
61	4.037584E-02	-2.527170E-03	-5.353928E-01	3.055548E-03	1.002919E-01	9.267539E-03	63

COLUMN 34

	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-1.532181E-01	-1.003984E-04	2.073503E-03	-9.616358E-05	-2.414870E-01	-1.397518E-03	3
4	-1.532864E-01	-1.001433E-04	7.000104E-04	-4.576261E-05	-1.627844E-01	-9.683486E-04	6
7	-1.539242E-01	-7.881922E-05	-7.308450E-04	6.308970E-06	-8.759607E-02	-5.061336E-04	9
10	-1.485582E-03	1.053123E-04	-1.848057E-01	-3.558622E-04	5.777418E-03	2.570689E-04	12
13	-1.189220E-01	-4.281748E-04	-1.532191E-03	1.008372E-04	-1.878858E-02	2.927671E-04	15
16	1.000000E+00	0.000000E+00	3.515881E-03	-2.079317E-04	-1.880285E-02	2.928082E-04	18
19	-1.848731E-01	-1.841636E-04	-8.182138E-04	8.530641E-05	7.632639E-02	8.921773E-04	21
22	-1.838308E-01	-2.513851E-04	-1.752162E-03	1.114187E-04	9.840353E-03	5.217806E-04	24
25	-1.818886E-01	-2.924138E-04	-4.052458E-04	9.953256E-05	-1.008250E-03	2.404851E-04	27
28	-2.233625E-01	-3.278485E-04	1.278547E-03	1.433401E-04	7.310281E-02	8.674155E-04	30
31	-9.998949E-02	4.405077E-04	-5.135616E-04	-5.534343E-05	-1.275888E-01	-8.442637E-04	33
34	-9.997939E-02	4.393097E-04	-6.520944E-03	-2.729755E-05	5.180196E-02	9.040660E-04	36
37	-9.884931E-02	4.267999E-04	-6.822475E-03	-1.223408E-04	-1.323621E-01	-1.132798E-03	39
40	-9.885416E-02	4.291713E-04	-6.248045E-03	-1.049568E-05	4.550237E-02	7.089285E-04	42
43	-1.881195E-01	-1.224891E-04	-9.279849E-04	1.258218E-06	1.854013E-01	1.152186E-03	45
45	-1.481848E-01	-2.965579E-04	1.433112E-03	-2.496988E-04	3.849139E-01	1.589662E-04	48
48	-1.759009E-01	8.178241E-06	2.241005E-03	-2.074924E-04	3.828794E-01	7.355314E-05	51
52	-1.743466E-01	-9.633835E-05	2.241029E-03	-2.074923E-04	3.873761E-01	2.942364E-04	54
55	-1.897388E-01	-1.568377E-04	4.393860E-04	-3.312708E-04	5.085586E-01	-2.747777E-03	57
58	-3.602759E-01	2.915044E-03	-5.841409E-03	3.057310E-04	7.147204E-01	-4.539096E-03	60
61	-3.652652E-01	3.016556E-03	-5.489184E-03	2.977045E-04	7.253379E-01	-4.846834E-03	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

INTERMEDIATE MATRIX ... UAV

	COLUMN 35						
	REAL	IMAGINARY	REAL	IMAGINARY	REAL	IMAGINARY	
1	-2.318718E-02	2.476131E-04	7.289581E-02	-7.954096E-03	3.489790E-01	-1.566592E-03	3
4	-2.317246E-02	3.272372E-04	4.102337E-02	-4.688620E-03	1.918997E-01	-8.544790E-04	6
7	-1.461925E-02	6.946560E-05	1.075734E-02	-1.697022E-03	5.076582E-02	-6.198659E-04	9
10	-2.136227E-02	2.190734E-03	1.950848E-02	-6.370557E-04	-7.336466E-02	4.046722E-04	12
13	6.307161E-02	-3.665822E-04	-2.365677E-02	2.548191E-03	-7.386148E-02	-1.096570E-04	15
16	-3.903290E-02	2.864689E-03	5.977766E-03	-9.348399E-04	-7.416806E-02	-1.382838E-04	18
19	8.527147E-03	-6.384715E-04	-3.838169E-02	4.327209E-03	-1.372846E-01	1.322619E-03	21
22	1.549548E-03	2.262125E-03	-2.431332E-02	2.515302E-03	-9.140052E-02	2.087493E-03	24
25	4.740857E-02	-3.443518E-03	-2.441850E-02	2.567821E-03	-7.135372E-02	-1.531128E-03	27
28	2.704757E-02	-1.278220E-03	-4.885222E-02	5.368958E-03	-1.344189E-01	1.286566E-03	30
31	-1.101642E-01	2.581789E-04	5.302858E-03	-8.125889E-03	1.370234E-01	7.759918E-03	33
34	-1.100491E-01	2.557641E-04	-1.460218E-02	3.298036E-03	-1.557187E-01	6.957260E-04	36
37	-7.518678E-02	-3.628933E-03	5.674977E-02	-1.315961E-03	1.588855E-01	3.581665E-03	39
40	-7.514172E-02	-3.621495E-03	-3.980107E-02	7.328922E-04	-1.408535E-01	-2.251507E-03	42
43	1.394868E-03	-9.080610E-04	-4.076775E-02	4.585536E-03	-1.522826E-01	3.174334E-03	45
46	3.300672E-02	-1.424434E-03	2.053120E-02	-3.525790E-04	7.667932E-02	4.470507E-03	48
49	-4.703041E-02	1.763844E-03	2.243044E-02	-3.348821E-04	6.899238E-02	5.029345E-03	51
52	1.484138E-02	-3.681785E-03	2.243043E-02	-3.348819E-04	8.330418E-02	4.753038E-03	54
55	2.834098E-03	-1.814372E-03	1.308087E-01	-1.050322E-02	6.045728E-01	-5.344832E-03	57
58	-5.825564E-01	8.071732E-03	2.345750E-01	-3.258082E-02	9.372224E-01	-8.661572E-03	60
61	-6.791679E-01	8.720438E-03	2.346759E-01	-3.250688E-02	1.000000E+00	0.000000E+00	63

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

COMPLEX EIGENVALUE = -1.189085E-02, -2.397042E-12

COMPLEX EIGENVECTOR NO. 1

(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-1.211566E-02	-1.182616E-03	-3.336734E-01	0.0	0.0	0.0
		-9.600934E-13	-2.781579E-13	-1.521826E-11	0.0	0.0	0.0
1003	G	-1.210582E-02	-6.902715E-04	-2.018108E-01	0.0	0.0	0.0
		-9.576850E-13	-1.568207E-13	-1.370330E-11	0.0	0.0	0.0
1004	G	-1.210551E-02	-2.040782E-04	-7.322623E-02	0.0	0.0	0.0
		-9.576280E-13	-3.918825E-14	-1.223461E-11	0.0	0.0	0.0
1006	G	-6.446625E-02	8.750125E-04	9.021787E-02	0.0	-2.809296E-03	1.089763E-05
		-1.561756E-12	1.828658E-13	-1.037256E-11	0.0	-3.213142E-14	2.583406E-15
1007	G	-6.297781E-02	1.429549E-03	2.392004E-01	0.0	0.0	0.0
		-1.564431E-12	3.177732E-13	-8.696318E-12	0.0	0.0	0.0
1012	G	-4.038792E-02	2.849248E-03	6.635745E-01	-2.451785E-05	-2.809359E-03	1.070350E-05
		-1.382896E-12	6.771571E-13	-3.851759E-12	-3.896127E-15	-3.215703E-14	2.586487E-15
1013	G	-3.971895E-02	2.849248E-03	6.651069E-01	-2.451767E-05	-2.809359E-03	1.070354E-05
		-1.221594E-12	6.771571E-13	-3.712188E-12	-3.765615E-15	-3.215703E-14	2.578884E-15
1017	G	-6.327218E-02	9.348327E-04	1.086351E-01	0.0	0.0	0.0
		-1.712820E-12	1.885889E-13	-1.040059E-11	0.0	0.0	0.0
1018	G	-6.200858E-02	9.348449E-04	1.115285E-01	0.0	0.0	0.0
		-1.408350E-12	1.885808E-13	-9.947131E-12	0.0	0.0	0.0
1021	G	-1.252867E-01	1.438281E-03	9.873263E-02	-2.451947E-05	-2.809341E-03	1.069820E-05
		-2.277212E-12	2.739222E-13	-1.030365E-11	-3.839338E-15	-3.213164E-14	2.581563E-15
1022	G	-3.183446E-01	3.123283E-03	9.873263E-02	-2.451972E-05	-2.809339E-03	1.069830E-05
		-4.486018E-12	5.379869E-13	-1.030350E-11	-3.844425E-15	-3.215221E-14	2.581043E-15
1023	G	9.679386E-02	-1.456858E-03	-1.525514E-01	-2.452068E-05	-2.809217E-03	1.069756E-05
		3.618985E-13	-2.615802E-13	-1.303417E-11	-3.843891E-15	-3.211756E-14	2.580565E-15
1024	G	9.593802E-02	-1.457132E-03	-1.545132E-01	-2.452058E-05	-2.809216E-03	1.070235E-05
		1.550354E-13	-2.614438E-13	-1.334215E-11	-3.847580E-15	-3.211846E-14	2.578849E-15
1025	G	9.679398E-02	-1.225532E-04	1.978143E-01	-2.451798E-05	-2.809222E-03	1.070022E-05
		3.617452E-13	6.135320E-14	-9.027598E-12	-3.822074E-15	-3.213378E-14	2.611018E-15
1026	G	9.593802E-02	-1.225842E-04	1.958531E-01	-2.451811E-05	-2.809232E-03	1.069764E-05
		1.549607E-13	6.001758E-14	-9.335130E-12	-3.861945E-15	-3.214428E-14	2.562033E-15
1028	G	-2.154429E-01	5.655519E-03	9.991562E-01	-2.451808E-05	-2.809359E-03	1.070243E-05
		-3.358411E-12	1.222688E-12	-6.153618E-14	-3.787523E-15	-3.217492E-14	2.576267E-15

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.199085E-02, -2.397042E-12

C O M P L E X E I G E N V E C T O R NO. 1
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-1.245871E-01	1.945817E-03	2.335816E-01	-2.451813E-05	-2.809359E-03	1.070353E-05
		-2.269371E-12	3.970284E-13	-8.760543E-12	-3.848439E-15	-3.214845E-14	2.584221E-15
2511	G	-3.406458E-02	1.705797E-03	3.779381E-01	-2.452071E-05	-2.809360E-03	1.070494E-05
		-1.198219E-12	4.055559E-13	-7.057245E-12	-3.851252E-15	-3.214907E-14	2.583551E-15
2572	G	-7.248548E-03	2.570768E-03	6.683915E-01	-2.451775E-05	-2.809359E-03	1.070351E-05
		-9.267395E-13	6.343983E-13	-3.807477E-12	-3.842393E-15	-3.214928E-14	2.582714E-15
2649	G	-3.656140E-02	3.717471E-03	9.002229E-01	-2.451762E-05	-2.809359E-03	1.070348E-05
		-1.262388E-12	8.893319E-13	-1.130354E-12	-3.831026E-15	-3.188676E-14	2.584198E-15
2687	G	-2.187002E-01	5.669706E-03	1.000000E+00	-2.451794E-05	-2.809358E-03	1.070297E-05
		-3.334306E-12	1.225025E-12	0.0	-3.771717E-15	-3.215600E-14	2.584013E-15
19777	G	-6.951146E-02	9.191461E-04	9.024435E-02	-2.451982E-05	-2.809310E-03	1.069995E-05
		-1.618619E-12	1.897962E-13	-1.036840E-11	-3.854017E-15	-3.213792E-14	2.579216E-15

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -4.271184E-03, -2.531390E-10

C O M P L E X E I G E N V E C T O R NO. 2
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-8.681373E-03	4.335779E-05	-2.783220E-01	0.0	0.0	0.0
		4.413097E-11	-5.479511E-11	7.039858E-10	0.0	0.0	0.0
1003	G	-8.861759E-03	2.619432E-05	-1.528718E-01	0.0	0.0	0.0
		4.458129E-11	-3.210882E-11	6.346611E-10	0.0	0.0	0.0
1004	G	-8.861588E-03	8.510014E-06	-2.953449E-02	0.0	0.0	0.0
		4.457955E-11	-1.002838E-11	5.671350E-10	0.0	0.0	0.0
1006	G	-5.885950E-02	1.739612E-04	1.272576E-01	0.0	-2.694453E-03	-3.631843E-07
		7.111572E-11	2.112424E-11	4.807859E-10	0.0	1.478111E-12	4.827042E-13
1007	G	-5.734778E-02	1.492276E-04	2.702559E-01	0.0	0.0	0.0
		6.646504E-11	4.666346E-11	4.009887E-10	0.0	0.0	0.0
1012	G	-3.534941E-02	1.311759E-05	6.777013E-01	-1.002229E-05	-2.694500E-03	-3.588397E-07
		3.931830E-11	1.183700E-10	1.721481E-10	-1.641103E-13	1.478307E-12	4.826878E-13
1013	G	-3.537184E-02	1.311759E-05	6.783276E-01	-1.002227E-05	-2.694500E-03	-3.589309E-07
		6.948654E-11	1.183700E-10	1.824035E-10	-1.640495E-13	1.478307E-12	4.826948E-13
1017	G	-5.700322E-02	1.646320E-04	1.458250E-01	0.0	0.0	0.0
		3.780904E-11	2.445882E-11	4.592516E-10	0.0	0.0	0.0
1018	G	-5.704587E-02	1.645000E-04	1.470078E-01	0.0	0.0	0.0
		9.476740E-11	2.445941E-11	4.786151E-10	0.0	0.0	0.0
1021	G	-1.171098E-01	3.895552E-04	1.355311E-01	-1.002408E-05	-2.694486E-03	-3.647551E-07
		9.824561E-11	2.618833E-11	4.749038E-10	-1.641018E-13	1.478261E-12	4.826890E-13
1022	G	-3.022748E-01	1.078420E-03	1.355311E-01	-1.002425E-05	-2.694486E-03	-3.647442E-07
		2.008322E-10	3.744530E-11	4.749036E-10	-1.640996E-13	1.478273E-12	4.826895E-13
1023	G	9.546754E-02	-3.687113E-04	-1.060227E-01	-1.002524E-05	-2.694397E-03	-3.628018E-07
		1.933338E-12	-3.012863E-11	6.141727E-10	-1.641276E-13	1.477888E-12	4.827248E-13
1024	G	9.549648E-02	-3.689068E-04	-1.058248E-01	-1.002617E-05	-2.694397E-03	-3.593898E-07
		-3.668347E-11	-3.012746E-11	6.010414E-10	-1.641062E-13	1.477859E-12	4.827153E-13
1025	G	9.548754E-02	-4.138780E-04	2.300226E-01	-1.002313E-05	-2.694400E-03	-3.608282E-07
		1.933277E-12	3.007660E-11	4.298513E-10	-1.641215E-13	1.477875E-12	4.827205E-13
1026	G	9.549648E-02	-4.139000E-04	2.292209E-01	-1.002319E-05	-2.694408E-03	-3.628315E-07
		-3.668347E-11	3.007708E-11	4.187226E-10	-1.640985E-13	1.477874E-12	4.827200E-13
1028	G	-2.033830E-01	5.852701E-04	9.893907E-01	-1.002253E-05	-2.694498E-03	-3.583838E-07
		1.376844E-10	1.882084E-10	-2.179538E-12	-1.641313E-13	1.478306E-12	4.827065E-13

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -4.271184E-03, -2.531390E-10

C O M P L E X E I G E N V E C T O R NO. 2
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-1.164381E-01	3.697414E-04	2.648869E-01	-1.002298E-05	-2.694498E-03	-3.588658E-07
		9.888464E-11	4.929691E-11	4.039453E-10	-1.641013E-13	1.478314E-12	4.826905E-13
2511	G	-2.976928E-02	2.885065E-05	4.031254E-01	-1.003407E-05	-2.694503E-03	-3.535651E-07
		5.826847E-11	6.875996E-11	3.305274E-10	-1.642024E-13	1.478272E-12	4.827453E-13
2572	G	-3.886949E-03	-1.041746E-04	6.799814E-01	-1.002228E-05	-2.694500E-03	-3.589361E-07
		3.714016E-11	1.168062E-10	1.761971E-10	-1.640964E-13	1.478308E-12	4.826924E-13
2649	G	-3.201136E-02	-2.947764E-05	9.042527E-01	-1.002225E-05	-2.694500E-03	-3.589531E-07
		5.256489E-11	1.586944E-10	5.315317E-11	-1.641301E-13	1.478239E-12	4.826922E-13
2697	G	-2.047463E-01	6.002601E-04	1.000000E+00	-1.002248E-05	-2.694499E-03	-3.591840E-07
		1.455631E-10	1.863736E-10	0.0	-1.641140E-13	1.478299E-12	4.826963E-13
19777	G	-6.370993E-02	1.920035E-04	1.272684E-01	-1.002427E-05	-2.694463E-03	-3.614932E-07
		7.429771E-11	2.141962E-11	4.809631E-10	-1.640987E-13	1.478153E-12	4.826968E-13

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.600943E-03, -1.678274E-02

C O M P L E X E I G E N V E C T O R NO. 3
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	5.529059E-02	6.210482E-02	1.000000E+00	0.0	0.0	0.0
		4.279252E-03	5.348112E-02	0.0	0.0	0.0	0.0
1003	G	5.477753E-02	3.612979E-02	8.910168E-01	0.0	0.0	0.0
		3.838306E-03	3.120232E-02	8.424617E-02	0.0	0.0	0.0
1004	G	5.477503E-02	1.089430E-02	7.854906E-01	0.0	0.0	0.0
		3.837817E-03	9.541547E-03	1.664300E-01	0.0	0.0	0.0
1006	G	9.885398E-02	-2.963825E-02	6.520468E-01	0.0	2.309385E-03	-5.528627E-04
		-2.887908E-02	-2.342888E-02	2.717000E-01	0.0	-1.798375E-03	-4.741275E-04
1007	G	1.020396E-01	-5.874504E-02	5.329558E-01	0.0	0.0	0.0
		-2.391582E-02	-4.844170E-02	3.694754E-01	0.0	0.0	0.0
1012	G	1.004708E-01	-1.387532E-01	1.974536E-01	4.488811E-04	2.309677E-03	-5.528927E-04
		5.574370E-03	-1.178383E-01	6.508341E-01	2.885062E-04	-1.798336E-03	-4.741342E-04
1013	G	6.591501E-02	-1.387532E-01	1.694110E-01	4.488809E-04	2.309677E-03	-5.528927E-04
		-2.405902E-02	-1.178383E-01	6.326024E-01	2.885059E-04	-1.798336E-03	-4.741342E-04
1017	G	1.343828E-01	-3.328111E-02	6.655848E-01	0.0	0.0	0.0
		4.272788E-03	-2.661605E-02	3.038473E-01	0.0	0.0	0.0
1018	G	6.914379E-02	-3.328019E-02	6.126402E-01	0.0	0.0	0.0
		-5.167451E-02	-2.661592E-02	2.898037E-01	0.0	0.0	0.0
1021	G	1.532561E-01	-4.105263E-02	6.484405E-01	4.488828E-04	2.309609E-03	-5.528605E-04
		-6.380538E-02	-3.113413E-02	2.795598E-01	2.885067E-04	-1.798343E-03	-4.741218E-04
1022	G	3.119727E-01	-7.188622E-02	6.484405E-01	4.488848E-04	2.309614E-03	-5.528604E-04
		-1.873876E-01	-5.096033E-02	2.795598E-01	2.885072E-04	-1.798345E-03	-4.741219E-04
1023	G	-5.106589E-02	4.399386E-02	8.378263E-01	4.488802E-04	2.309011E-03	-5.528529E-04
		5.912149E-02	3.420576E-02	1.065183E-01	2.885118E-04	-1.798430E-03	-4.741298E-04
1024	G	-6.837001E-03	4.389525E-02	8.737222E-01	4.488807E-04	2.308988E-03	-5.528768E-04
		9.705159E-02	3.420594E-02	1.295998E-01	2.885119E-04	-1.798428E-03	-4.741328E-04
1025	G	-5.106589E-02	-2.495839E-02	5.498481E-01	4.488698E-04	2.309020E-03	-5.528641E-04
		5.912148E-02	-2.482775E-02	3.308187E-01	2.885087E-04	-1.798431E-03	-4.741304E-04
1026	G	-6.836990E-03	-2.495823E-02	5.857408E-01	4.488709E-04	2.309074E-03	-5.528519E-04
		9.705160E-02	-2.482773E-02	3.538887E-01	2.885089E-04	-1.798412E-03	-4.741288E-04
1028	G	2.374473E-01	-2.327151E-01	-8.390842E-02	4.488810E-04	2.309877E-03	-5.528881E-04
		-1.126198E-01	-1.924128E-01	8.615662E-01	2.885071E-04	-1.798337E-03	-4.741381E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.500943E-03, -1.678274E-02

C O M P L E X E I G E N V E C T O R NO. 3
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	1.526914E-01	-5.747870E-02	5.375762E-01	4.486749E-04	2.309898E-03	-5.528918E-04
		-5.335414E-02	-5.382033E-02	3.858798E-01	2.885037E-04	-1.798328E-03	-4.741338E-04
2511	G	7.045101E-02	-8.138629E-02	4.127375E-01	4.485298E-04	2.309633E-03	-5.528245E-04
		-1.232036E-02	-6.884316E-02	4.538125E-01	2.884562E-04	-1.798350E-03	-4.741117E-04
2572	G	5.822281E-02	-1.338178E-01	1.817463E-01	4.486809E-04	2.309677E-03	-5.528926E-04
		1.175685E-02	-1.148155E-01	6.429310E-01	2.885061E-04	-1.798336E-03	-4.741342E-04
2649	G	8.032188E-02	-1.846180E-01	-1.049508E-02	4.486805E-04	2.309677E-03	-5.528825E-04
		-7.008991E-03	-1.572894E-01	7.926120E-01	2.885067E-04	-1.798336E-03	-4.741344E-04
2697	G	2.304176E-01	-2.330358E-01	-9.095283E-02	4.486812E-04	2.309677E-03	-5.528910E-04
		-1.205529E-01	-1.926392E-01	8.575980E-01	2.885064E-04	-1.798337E-03	-4.741357E-04
18777	G	1.025139E-01	-3.044587E-02	6.515622E-01	4.486829E-04	2.309455E-03	-5.528748E-04
		-3.242817E-02	-2.394620E-02	2.713884E-01	2.885053E-04	-1.798363E-03	-4.741294E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -5.868273E-03, -2.339854E-02

C O M P L E X E I G E N V E C T O R NO. 4
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	2.786103E-02	-2.818995E-01	4.838340E-02	0.0	0.0	0.0
		1.157251E-03	1.308180E-05	1.369091E-02	0.0	0.0	0.0
1003	G	2.998946E-02	-1.643294E-01	4.415628E-02	0.0	0.0	0.0
		1.154746E-03	-1.155282E-04	1.538144E-02	0.0	0.0	0.0
1004	G	2.988933E-02	-4.999458E-02	3.888902E-02	0.0	0.0	0.0
		1.154736E-03	-2.398278E-04	1.700857E-02	0.0	0.0	0.0
1006	G	2.694825E-02	1.198542E-01	2.944901E-02	0.0	1.160918E-04	2.501953E-03
		4.968321E-04	-6.968008E-05	1.904824E-02	0.0	-3.561877E-05	-2.738125E-06
1007	G	7.067518E-03	2.517858E-01	1.306518E-02	0.0	0.0	0.0
		5.384988E-04	-2.249153E-04	2.078758E-02	0.0	0.0	0.0
1012	G	-7.206630E-02	6.198787E-01	-4.482459E-02	-1.290210E-03	1.161083E-04	2.501965E-03
		9.146514E-04	-7.832289E-04	2.663541E-02	-1.765658E-05	-3.561508E-05	-2.737015E-06
1013	G	8.430850E-02	6.198787E-01	3.581354E-02	-1.290210E-03	1.161083E-04	2.501965E-03
		7.435959E-04	-7.832289E-04	2.673898E-02	-1.765673E-05	-3.561506E-05	-2.736958E-06
1017	G	-1.405618E-01	1.366407E-01	-5.772082E-02	0.0	0.0	0.0
		7.043724E-04	-1.012411E-04	1.811910E-02	0.0	0.0	0.0
1018	G	1.546691E-01	1.366408E-01	9.452435E-02	0.0	0.0	0.0
		3.811921E-04	-1.012238E-04	2.020244E-02	0.0	0.0	0.0
1021	G	9.840943E-03	1.553044E-01	1.887060E-02	-1.290229E-03	1.161067E-04	2.501914E-03
		-2.618383E-04	3.035458E-04	1.901682E-02	-1.765150E-05	-3.561702E-05	-2.738580E-06
1022	G	1.761983E-02	2.439892E-01	1.887060E-02	-1.290234E-03	1.161074E-04	2.501915E-03
		-2.899249E-03	1.516438E-03	1.901682E-02	-1.764861E-05	-3.561724E-05	-2.738933E-06
1023	G	1.005601E-01	-1.711679E-01	8.090013E-02	-1.290220E-03	1.160462E-04	2.501850E-03
		2.449501E-03	-8.455275E-04	1.652517E-02	-1.767488E-05	-3.561177E-05	-2.723829E-06
1024	G	-9.859444E-02	-1.711677E-01	-2.231731E-02	-1.290220E-03	1.160841E-04	2.501948E-03
		2.888058E-03	-8.454980E-04	1.510927E-02	-1.767491E-05	-3.564358E-05	-2.724394E-06
1025	G	1.005601E-01	1.408750E-01	6.842473E-02	-1.290215E-03	1.160867E-04	2.501940E-03
		2.449500E-03	-1.185140E-03	2.088702E-02	-1.768880E-05	-3.562111E-05	-2.723061E-06
1026	G	-9.859445E-02	1.408750E-01	-3.679141E-02	-1.290214E-03	1.160381E-04	2.501942E-03
		2.888058E-03	-1.185136E-03	1.955428E-02	-1.766889E-05	-3.563183E-05	-2.722717E-06
1028	G	-3.290084E-02	9.989218E-01	-4.221780E-02	-1.290210E-03	1.161087E-04	2.501875E-03
		-1.341850E-03	-8.408930E-06	3.011108E-02	-1.765023E-05	-3.561418E-05	-2.702146E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -5.868273E-03, -2.339854E-02

C O M P L E X E I G E N V E C T O R NO. 4
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	9.613836E-03	2.750760E-01	1.329741E-02	-1.290208E-03	1.161116E-04	2.501968E-03
		-2.425351E-04	1.677718E-04	2.072635E-02	-1.785751E-05	-3.561564E-05	-2.738286E-06
2511	G	4.183218E-02	3.618194E-01	2.588614E-02	-1.290220E-03	1.161053E-04	2.501969E-03
		8.637698E-04	-5.404995E-04	2.280559E-02	-1.766065E-05	-3.561625E-05	-2.735485E-06
2572	G	4.764301E-03	6.068403E-01	-4.590284E-03	-1.290210E-03	1.161082E-04	2.501965E-03
		1.245001E-03	-9.914067E-04	2.621318E-02	-1.785740E-05	-3.561534E-05	-2.736801E-06
2649	G	5.975775E-03	8.283484E-01	-1.425433E-02	-1.290211E-03	1.161087E-04	2.501966E-03
		8.733928E-04	-1.034914E-03	2.917753E-02	-1.785883E-05	-3.561475E-05	-2.735428E-06
2697	G	4.236910E-03	1.000000E+00	-2.311682E-02	-1.290211E-03	1.161090E-04	2.501969E-03
		-1.398775E-03	0.0	3.037878E-02	-1.765073E-05	-3.561322E-05	-2.723694E-06
19777	G	2.885931E-02	1.219766E-01	3.084244E-02	-1.290216E-03	1.160849E-04	2.501954E-03
		4.297615E-04	-3.789978E-05	1.906530E-02	-1.785551E-05	-3.561841E-05	-2.736398E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.092172E-02, -1.262680E-01

C O M P L E X E I G E N V E C T O R NO. 5
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	8.305505E-01	1.575651E-02	-5.414810E-01	0.0	0.0	0.0
		-2.545264E-02	1.526940E-03	-1.034417E-02	0.0	0.0	0.0
1003	G	8.304237E-01	9.756889E-03	-3.886795E-01	0.0	0.0	0.0
		-2.546835E-02	6.691843E-04	-9.147740E-03	0.0	0.0	0.0
1004	G	8.304191E-01	3.777419E-03	-2.403716E-01	0.0	0.0	0.0
		-2.546905E-02	-1.603162E-04	-8.053020E-03	0.0	0.0	0.0
1006	G	7.702219E-01	-1.903396E-03	-5.091278E-02	0.0	-3.251556E-03	-1.271597E-04
		-2.587812E-02	2.348085E-04	-6.843340E-03	0.0	-2.379891E-05	-1.828025E-05
1007	G	7.730515E-01	-6.724623E-03	1.208016E-01	0.0	0.0	0.0
		-2.572015E-02	-7.779865E-04	-6.192358E-03	0.0	0.0	0.0
1012	G	8.035410E-01	-2.879385E-02	6.093303E-01	-9.279822E-05	-3.247474E-03	-1.276141E-04
		-2.495481E-02	-4.177201E-03	-5.015473E-03	-7.820179E-05	-2.392136E-05	-1.824430E-05
1013	G	7.955658E-01	-2.879385E-02	6.151309E-01	-9.281686E-05	-3.247474E-03	-1.275910E-04
		-2.609522E-02	-4.177201E-03	-1.279816E-04	-7.819836E-05	-2.392136E-05	-1.824869E-05
1017	G	7.809664E-01	-2.882254E-03	-3.388339E-02	0.0	0.0	0.0
		-2.464074E-02	5.152297E-05	-1.190711E-02	0.0	0.0	0.0
1018	G	7.659410E-01	-2.869663E-03	-2.294504E-02	0.0	0.0	0.0
		-2.679491E-02	5.110322E-05	-2.679204E-03	0.0	0.0	0.0
1021	G	7.008443E-01	-2.922381E-04	-4.157759E-02	-9.274475E-05	-3.248231E-03	-1.269378E-04
		-2.624536E-02	1.889014E-03	-7.388556E-03	-7.821108E-05	-2.392687E-05	-1.827462E-05
1022	G	4.776390E-01	6.080683E-03	-4.157759E-02	-9.273686E-05	-3.247918E-03	-1.269207E-04
		-2.789175E-02	7.243788E-03	-7.388556E-03	-7.821395E-05	-2.392917E-05	-1.827719E-05
1023	G	9.523513E-01	3.820821E-03	-3.305491E-01	-9.259309E-05	-3.257081E-03	-1.273093E-04
		-2.509884E-02	-2.665058E-03	-5.373119E-03	-7.824308E-05	-2.359561E-05	-1.823061E-05
1024	G	9.625428E-01	3.838747E-03	-3.379449E-01	-9.282246E-05	-3.257018E-03	-1.276328E-04
		-2.383983E-02	-2.665533E-03	-1.263672E-02	-7.823929E-05	-2.366520E-05	-1.822129E-05
1025	G	9.523513E-01	-1.208817E-02	7.585722E-02	-9.280825E-05	-3.256714E-03	-1.275015E-04
		-2.509884E-02	-4.938238E-03	-3.428540E-03	-7.821767E-05	-2.363382E-05	-1.822042E-05
1026	G	9.625429E-01	-1.208402E-02	6.821679E-02	-9.279893E-05	-3.256025E-03	-1.273387E-04
		-2.383983E-02	-4.938337E-03	-9.684436E-03	-7.821844E-05	-2.367173E-05	-1.822673E-05
1028	G	5.993984E-01	-3.823549E-02	9.980688E-01	-9.276022E-05	-3.247489E-03	-1.276150E-04
		-2.667884E-02	-1.478305E-03	-1.163177E-03	-7.821510E-05	-2.392017E-05	-1.827102E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.092172E-02, -1.262680E-01

C O M P L E X E I G E N V E C T O R NO. 5
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1028	G	7.018412E-01	-6.432636E-03	1.143073E-01	-9.283756E-05	-3.247234E-03	-1.275742E-04
		-2.624508E-02	9.733683E-04	-6.240214E-03	-7.819976E-05	-2.393501E-05	-1.824755E-05
2511	G	8.044679E-01	-1.598061E-02	2.820832E-01	-9.416523E-05	-3.247847E-03	-1.269890E-04
		-2.573759E-02	-2.477230E-03	-3.889649E-03	-7.815764E-05	-2.391265E-05	-1.826477E-05
2572	G	8.374740E-01	-2.997072E-02	6.146011E-01	-9.280916E-05	-3.247480E-03	-1.276023E-04
		-2.524565E-02	-5.103661E-03	-2.554242E-03	-7.819948E-05	-2.392095E-05	-1.824674E-05
2649	G	8.035899E-01	-3.962313E-02	8.848988E-01	-9.280244E-05	-3.247508E-03	-1.276028E-04
		-2.549525E-02	-5.806494E-03	-5.632837E-04	-7.819951E-05	-2.392005E-05	-1.824784E-05
2697	G	1.958715E-01	-3.821054E-02	1.000000E+00	-9.278400E-05	-3.247486E-03	-1.276048E-04
		-2.696168E-02	-1.442000E-03	0.0	-7.820796E-05	-2.392183E-05	-1.825658E-05
19777	G	7.842332E-01	-1.736359E-03	-5.081264E-02	-9.272307E-05	-3.250651E-03	-1.273270E-04
		-2.594072E-02	3.755714E-04	-6.758879E-03	-7.820373E-05	-2.382718E-05	-1.825644E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -3.863643E-02, -1.461380E-01

C O M P L E X E I G E N V E C T O R NO. 6
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.915736E-02	2.649682E-01	1.038221E-01	0.0	0.0	0.0
		-3.485870E-03	3.200257E-03	4.137707E-03	0.0	0.0	0.0
1003	G	-3.190929E-02	1.254905E-01	1.137123E-01	0.0	0.0	0.0
		-3.578612E-03	-1.390356E-03	3.915280E-03	0.0	0.0	0.0
1004	G	-3.189538E-02	-1.001034E-02	1.131007E-01	0.0	0.0	0.0
		-3.575966E-03	-5.851671E-03	3.600637E-03	0.0	0.0	0.0
1006	G	-2.555786E-02	2.113162E-02	8.986112E-02	0.0	1.084508E-05	-2.967318E-03
		-3.246914E-03	-9.488019E-03	2.966869E-03	0.0	6.872432E-06	-9.771894E-05
1007	G	-2.054567E-03	-1.425375E-01	2.492371E-03	0.0	0.0	0.0
		-2.478238E-03	-1.473800E-02	1.739150E-03	0.0	0.0	0.0
1012	G	9.058086E-02	-6.807742E-01	-3.408450E-01	-1.093543E-02	1.060256E-05	-2.967096E-03
		5.209621E-04	-3.040848E-02	-2.714580E-03	-1.094537E-04	6.830647E-06	-9.768877E-05
1013	G	-9.486288E-02	-6.807742E-01	3.426192E-01	-1.093543E-02	1.060256E-05	-2.967096E-03
		-5.584918E-03	-3.040948E-02	4.125522E-03	-1.094484E-04	6.830649E-06	-9.769101E-05
1017	G	1.730167E-01	-7.488473E-03	-6.422066E-01	0.0	0.0	0.0
		3.289594E-03	-1.026003E-02	-4.392896E-03	0.0	0.0	0.0
1018	G	-1.771320E-01	-7.488438E-03	6.481848E-01	0.0	0.0	0.0
		-8.244187E-03	-1.026010E-02	8.498678E-03	0.0	0.0	0.0
1021	G	-1.774850E-03	2.483740E-01	3.020784E-03	-1.093706E-02	1.036387E-05	-2.968399E-03
		-2.324987E-03	-7.434702E-03	2.080560E-03	-1.084542E-04	6.824156E-06	-9.770267E-05
1022	G	-1.064298E-03	1.000000E+00	3.020784E-03	-1.093782E-02	1.033319E-05	-2.968311E-03
		-1.855808E-03	0.0	2.080560E-03	-1.080123E-04	6.827051E-06	-9.775463E-05
1023	G	-1.212697E-01	-3.484463E-01	4.419250E-01	-1.094044E-02	1.587394E-05	-2.963717E-03
		-5.785972E-03	-7.324000E-03	7.107869E-03	-1.097255E-04	7.198218E-06	-9.735879E-05
1024	G	1.159332E-01	-3.484471E-01	-4.338587E-01	-1.094044E-02	6.392874E-06	-2.963708E-03
		1.037161E-03	-7.323907E-03	-1.714418E-03	-1.097265E-04	6.505596E-06	-9.736206E-05
1025	G	-1.212704E-01	-7.180493E-01	4.400904E-01	-1.093805E-02	1.233078E-05	-2.963243E-03
		-5.786006E-03	-1.946289E-02	6.215441E-03	-1.095319E-04	7.028033E-06	-9.732834E-05
1026	G	1.159339E-01	-7.180493E-01	-4.348004E-01	-1.093805E-02	9.915973E-06	-2.963242E-03
		1.037197E-03	-1.946296E-02	-2.532054E-03	-1.095325E-04	6.893790E-06	-9.732452E-05
1028	G	5.338619E-02	-3.529318E-01	-2.025793E-01	-1.093574E-02	1.061742E-05	-2.967390E-03
		-2.833675E-04	-3.521984E-02	-2.156028E-03	-1.108327E-04	6.898365E-06	-9.8786E4E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -3.863643E-02, -1.481380E-01

C O M P L E X E I G E N V E C T O R NO. 6
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-1.823884E-03	1.032089E-01	2.513000E-03	-1.093557E-02	1.036539E-05	-2.967238E-03
		-2.326767E-03	-1.214330E-02	1.752624E-03	-1.093312E-04	6.783624E-06	-8.770907E-05
2511	G	-4.479994E-02	-4.006311E-01	1.591113E-01	-1.093535E-02	1.081531E-05	-2.967089E-03
		-3.949820E-03	-2.066611E-02	2.974042E-03	-1.093306E-04	6.832385E-06	-9.768175E-05
2572	G	-2.264915E-03	-8.106331E-01	8.793487E-04	-1.093542E-02	1.080420E-05	-2.967097E-03
		-2.611746E-03	-3.175877E-02	7.004840E-04	-1.094245E-04	6.839427E-06	-9.768950E-05
2649	G	-2.154297E-03	-9.434947E-01	-3.213956E-06	-1.093546E-02	1.057474E-05	-2.967128E-03
		-2.540472E-03	-3.875176E-02	1.318107E-04	-1.095552E-04	6.748345E-06	-9.778054E-05
2697	G	-9.415826E-03	-3.478277E-01	-4.051430E-02	-1.093562E-02	1.080652E-05	-2.967228E-03
		-1.739649E-03	-3.518075E-02	-5.180009E-04	-1.103788E-04	6.853350E-06	-9.812560E-05
19777	G	-2.874271E-02	4.081529E-02	1.014713E-01	-1.093536E-02	1.102702E-05	-2.967318E-03
		-3.340121E-03	-9.291363E-03	3.084860E-03	-1.092506E-04	6.852462E-06	-9.772310E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -8.303528E-03, -6.335569E-01

C O M P L E X E I G E N V E C T O R NO. 7
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.116519E-02	9.150287E-01	-4.887138E-02	0.0	0.0	0.0
		-1.293298E-03	2.663443E-02	4.548661E-03	0.0	0.0	0.0
1003	G	-2.317779E-02	8.126887E-01	-5.488511E-02	0.0	0.0	0.0
		-1.416861E-03	2.035094E-02	4.907531E-03	0.0	0.0	0.0
1004	G	-2.324441E-02	7.130508E-01	-5.582487E-02	0.0	0.0	0.0
		-1.417615E-03	1.424498E-02	4.809428E-03	0.0	0.0	0.0
1006	G	-1.822262E-02	4.781680E-01	-4.453249E-02	0.0	1.874837E-05	-2.174530E-03
		-1.100867E-03	1.518969E-02	3.725697E-03	0.0	2.014475E-06	-1.336100E-04
1007	G	-1.058617E-03	3.657615E-01	-2.218044E-04	0.0	0.0	0.0
		-4.465183E-05	7.810210E-03	-9.297303E-05	0.0	0.0	0.0
1012	G	6.583648E-02	8.302114E-02	1.761502E-01	5.747189E-03	2.136654E-05	-2.178260E-03
		4.115694E-03	-1.623860E-02	-1.502869E-02	-4.680177E-04	2.045601E-06	-1.336703E-04
1013	G	-6.930366E-02	8.302114E-02	-1.830464E-01	5.747182E-03	2.136654E-05	-2.178256E-03
		-4.238491E-03	-1.623980E-02	1.422276E-02	-4.680209E-04	2.045600E-06	-1.336701E-04
1017	G	1.271132E-01	4.685502E-01	3.394882E-01	0.0	0.0	0.0
		7.835859E-03	1.389736E-02	-2.763106E-02	0.0	0.0	0.0
1018	G	-1.292073E-01	4.665521E-01	-3.378548E-01	0.0	0.0	0.0
		-7.924997E-03	1.389745E-02	2.763385E-02	0.0	0.0	0.0
1021	G	-4.687927E-04	3.471480E-01	8.591244E-04	5.742972E-03	2.223446E-05	-2.177184E-03
		5.635788E-06	2.489328E-02	9.723723E-06	-4.699972E-04	2.058715E-06	-1.337198E-04
1022	G	1.080556E-03	-4.752873E-02	8.591249E-04	5.743371E-03	2.226971E-05	-2.177229E-03
		1.489388E-04	5.722920E-02	9.723744E-06	-4.709087E-04	2.059818E-06	-1.336120E-04
1023	G	-8.984634E-02	1.000000E+00	-2.303173E-01	5.783542E-03	-7.384125E-06	-2.207152E-03
		-5.514383E-03	0.0	1.887885E-02	-4.676983E-04	1.887429E-08	-1.341188E-04
1024	G	8.530429E-02	9.988849E-01	2.360677E-01	5.783535E-03	5.246188E-05	-2.208807E-03
		5.191483E-03	-3.979621E-07	-1.848123E-02	-4.676959E-04	2.522694E-06	-1.341073E-04
1025	G	-8.984368E-02	7.245778E-01	-2.299086E-01	5.767159E-03	7.578721E-06	-2.207140E-03
		-5.514353E-03	-1.673236E-02	1.886600E-02	-4.679461E-04	1.817878E-06	-1.341486E-04
1026	G	8.530147E-02	7.245747E-01	2.301212E-01	5.787180E-03	3.579078E-05	-2.207425E-03
		5.191449E-03	-1.673246E-02	-1.878054E-02	-4.679450E-04	2.340178E-06	-1.341589E-04
1028	G	4.037533E-02	-5.353929E-01	1.002929E-01	5.748435E-03	2.125708E-05	-2.178471E-03
		2.526988E-03	-3.055544E-03	-9.267196E-03	-4.680662E-04	1.909662E-06	-1.332058E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -8.303528E-03, -6.335569E-01

C O M P L E X E I G E N V E C T O R NO. 7
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-5.706168E-04	2.440971E-01	-1.682952E-04	5.747757E-03	2.417569E-05	-2.175838E-03
		7.723141E-07	1.834568E-02	-8.857338E-05	-4.682031E-04	2.119476E-06	-1.336211E-04
2511	G	-3.257660E-02	3.172858E-01	-8.385146E-02	5.746411E-03	2.131882E-05	-2.178052E-03
		-1.986508E-03	-3.567727E-03	6.533702E-03	-4.681882E-04	2.048240E-06	-1.336773E-04
2572	G	-1.483122E-03	1.485401E-01	-3.463671E-03	5.747086E-03	2.136573E-05	-2.178219E-03
		-8.528078E-05	-2.180226E-02	-4.044601E-04	-4.680309E-04	2.042752E-06	-1.336813E-04
2649	G	-1.280186E-03	-9.273228E-02	-5.241606E-03	5.747557E-03	2.125333E-05	-2.178338E-03
		-6.391983E-05	-2.804104E-02	-5.742689E-04	-4.676181E-04	2.172048E-06	-1.335835E-04
2897	G	8.100725E-03	-5.386625E-01	1.509788E-02	5.748360E-03	2.126072E-05	-2.178526E-03
		5.521141E-04	-2.842734E-03	-2.356338E-03	-4.667853E-04	1.943193E-06	-1.334560E-04
19777	G	-2.053382E-02	4.678298E-01	-5.073380E-02	5.741949E-03	2.045075E-05	-2.174081E-03
		-1.241463E-03	1.601271E-02	4.231516E-03	-4.683502E-04	2.053509E-06	-1.336044E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.730956E-02, -1.987510E+01

C O M P L E X E I G E N V E C T O R NO. 8
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-1.532178E-01	2.063131E-03	-2.414964E-01	0.0	0.0	0.0
		1.004152E-04	9.565451E-05	1.397604E-03	0.0	0.0	0.0
1003	G	-1.532861E-01	6.907861E-04	-1.627937E-01	0.0	0.0	0.0
		1.001622E-04	4.535148E-05	8.684178E-04	0.0	0.0	0.0
1004	G	-1.539240E-01	-7.389512E-04	-8.759537E-02	0.0	0.0	0.0
		7.683762E-05	-6.606218E-06	5.061846E-04	0.0	0.0	0.0
1006	G	-1.823312E-01	-1.490937E-03	5.823209E-03	0.0	-1.271693E-03	-7.977927E-05
		3.335043E-04	-1.054104E-04	-2.559549E-04	0.0	1.580871E-05	-8.275981E-08
1007	G	-1.848731E-01	-8.223231E-04	7.632638E-02	0.0	0.0	0.0
		1.841643E-04	-8.531718E-05	-8.921899E-04	0.0	0.0	0.0
1012	G	-1.759016E-01	2.239898E-03	3.829772E-01	7.205493E-05	-2.394537E-03	8.828621E-05
		-8.140573E-06	2.074704E-04	-7.362901E-05	2.088184E-06	-2.110931E-05	1.786512E-06
1013	G	-1.743458E-01	2.239922E-03	3.873783E-01	-2.084460E-04	-2.394538E-03	-3.943155E-05
		9.529080E-05	2.074703E-04	-2.941671E-04	4.528939E-06	-2.110927E-05	1.338220E-06
1017	G	-1.818880E-01	-4.104760E-04	-1.010446E-03	0.0	0.0	0.0
		2.923058E-04	-9.961932E-05	-2.407575E-04	0.0	0.0	0.0
1018	G	-1.838293E-01	-1.757392E-03	8.644524E-03	0.0	0.0	0.0
		2.514990E-04	-1.115034E-04	-5.215141E-04	0.0	0.0	0.0
1021	G	-1.189220E-01	-1.535933E-03	-1.678660E-02	1.956925E-04	8.456515E-03	-3.149720E-05
		4.281836E-04	-1.006648E-04	-2.927782E-04	-3.088200E-06	3.593113E-06	-1.037574E-06
1022	G	1.000000E+00	3.517024E-03	-1.880256E-02	-1.442788E-04	2.173793E-02	7.455512E-04
		0.0	2.078536E-04	-2.929204E-04	-5.581851E-06	-1.373085E-05	-1.705283E-06
1023	G	-9.998850E-02	-5.251486E-04	-1.275850E-01	-4.179044E-05	-1.488855E-03	-4.990104E-05
		-4.404453E-04	5.477894E-05	8.444986E-04	2.176869E-06	1.284583E-05	-1.255729E-06
1024	G	-9.885027E-02	-6.834058E-03	-1.323851E-01	-1.362800E-04	-1.502047E-03	5.182133E-05
		-4.288921E-04	1.217829E-04	1.132802E-03	3.235075E-06	1.798608E-05	-1.657120E-05
1025	G	-9.897840E-02	-6.828441E-03	5.180479E-02	-7.175815E-05	-1.370988E-03	-5.433864E-05
		-4.398483E-04	2.701809E-05	-9.038076E-04	2.664538E-06	1.768939E-05	-1.651977E-06
1026	G	-9.885511E-02	-6.258643E-03	4.549852E-02	-7.950698E-05	-1.388037E-03	-2.258255E-05
		-4.292634E-04	1.021118E-05	-7.091322E-04	1.320143E-06	1.584137E-05	1.847479E-06
1028	G	-3.652657E-01	-5.483424E-03	7.253368E-01	9.142240E-04	-2.995408E-03	5.437833E-04
		-3.018591E-03	-2.983725E-04	4.847234E-03	2.272113E-05	-4.886312E-05	1.022189E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.730956E-02, -1.987510E+01

C O M P L E X E I G E N V E C T O R NO. 8
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-2.233524E-01	1.275952E-03	7.310281E-02	-1.071712E-04	-1.685119E-03	1.348823E-05
		3.278535E-04	-1.432381E-04	-8.674380E-04	1.681972E-06	8.051126E-06	9.662942E-07
2511	G	-1.681191E-01	-9.316362E-04	1.654023E-01	-9.980738E-05	-1.899950E-03	-3.399418E-05
		1.224924E-04	-1.256871E-06	-1.152140E-03	3.509083E-06	-3.274452E-08	-7.697674E-07
2572	G	-1.461846E-01	1.431204E-03	3.849140E-01	-7.456866E-05	-2.378977E-03	2.670163E-05
		2.965601E-04	2.496484E-04	-1.599688E-04	3.832467E-06	-2.130953E-05	1.867830E-06
2648	G	-1.697388E-01	4.394588E-03	6.065567E-01	-9.942226E-06	-2.440316E-03	5.298726E-05
		1.566353E-04	3.310770E-04	2.747857E-03	5.189097E-06	-4.617888E-05	1.920476E-06
2697	G	-3.602760E-01	-5.636612E-03	7.147202E-01	5.542034E-04	-3.057901E-03	3.520024E-04
		-2.915147E-03	-3.064025E-04	4.539274E-03	2.030311E-05	-5.161181E-05	8.192568E-06
19777	G	-1.848055E-01	-1.836026E-03	5.778042E-03	1.344131E-04	-1.344603E-03	-4.996780E-05
		3.558792E-04	-1.077552E-04	-2.570415E-04	1.006075E-06	1.332038E-05	-1.483083E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.262188E-01, -2.447568E+01

C O M P L E X E I G E N V E C T O R NO. 9
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	1.300614E-02	-7.374458E-02	-1.442138E-01	0.0	0.0	0.0
		2.171001E-04	-3.538177E-03	5.061335E-04	0.0	0.0	0.0
1003	G	1.460826E-02	2.231037E-03	-1.645372E-01	0.0	0.0	0.0
		2.364281E-04	-2.548703E-03	3.055672E-04	0.0	0.0	0.0
1004	G	1.361836E-02	7.402395E-02	-1.620554E-01	0.0	0.0	0.0
		1.948579E-04	-1.668691E-03	1.652918E-04	0.0	0.0	0.0
1006	G	1.168758E-02	-1.579456E-01	-1.312978E-01	0.0	1.769335E-04	1.335465E-03
		2.039780E-04	-7.860509E-04	-7.751455E-05	0.0	4.470303E-06	1.013989E-05
1007	G	7.083323E-04	-8.493840E-02	-3.923165E-03	0.0	0.0	0.0
		1.178711E-04	-3.725174E-04	-3.014043E-04	0.0	0.0	0.0
1012	G	-2.497085E-02	2.145959E-01	5.394907E-01	1.802014E-02	3.618705E-05	7.712763E-04
		5.527262E-04	-9.638744E-04	4.240280E-04	3.746485E-05	-3.953241E-07	-1.673655E-05
1013	G	2.343940E-02	2.145959E-01	-5.779833E-01	1.802655E-02	3.615928E-05	7.711950E-04
		-4.767028E-04	-9.638736E-04	-2.073500E-03	3.842985E-05	-3.949361E-07	-1.758035E-05
1017	G	-7.676298E-02	-1.378429E-01	1.000000E+00	0.0	0.0	0.0
		-4.607493E-04	-7.126601E-04	0.0	0.0	0.0	0.0
1018	G	7.823704E-02	-1.378475E-01	-9.976126E-01	0.0	0.0	0.0
		7.246569E-04	-7.079447E-04	-1.617118E-04	0.0	0.0	0.0
1021	G	2.977527E-03	-3.140482E-01	2.005981E-03	-5.768957E-03	6.892234E-05	1.428623E-03
		1.367136E-04	6.323010E-05	-6.203095E-05	-8.756022E-05	-2.706016E-06	1.227792E-05
1022	G	-2.160853E-03	5.130880E-01	2.008638E-03	-1.856849E-02	-9.528789E-05	2.929075E-03
		-4.089472E-04	7.817269E-03	-6.210825E-05	-1.299652E-04	-1.125559E-05	1.880264E-05
1023	G	4.995265E-02	7.676277E-01	-7.370909E-01	1.838850E-02	-1.361488E-03	-2.267090E-04
		3.597780E-04	-2.889535E-03	1.251775E-03	-1.850320E-05	2.352923E-05	3.013447E-05
1024	G	-6.276593E-02	7.683127E-01	7.632229E-01	1.846580E-02	1.772430E-03	-1.800218E-04
		-6.011638E-04	-2.877710E-03	-6.865740E-04	-1.628731E-05	-1.515812E-05	2.998084E-05
1025	G	4.992853E-02	8.890511E-01	-7.000149E-01	1.825095E-02	5.135366E-04	2.130581E-03
		3.580650E-04	-6.054283E-04	7.272341E-06	-1.292094E-05	-2.124765E-06	7.876490E-06
1026	G	-6.273929E-02	8.889389E-01	6.948917E-01	1.826680E-02	-3.181332E-04	2.122804E-03
		-5.983418E-04	-6.144859E-04	-4.418758E-04	-1.307122E-05	9.550540E-06	7.266833E-06
1028	G	-1.064563E-02	-9.775199E-01	3.727258E-01	2.084738E-02	-2.940222E-04	-1.018282E-04
		-3.148788E-03	-1.744610E-02	8.002545E-03	4.708500E-04	-3.444174E-05	1.529212E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.262188E-01, -2.447568E+01

C O M P L E X E I G E N V E C T O R NO. 9
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	4.895716E-03	-4.814872E-01	-1.855856E-03	1.697322E-02	7.295465E-04	1.611875E-03
		2.628014E-04	-5.118444E-04	-2.742078E-04	5.858903E-06	9.103935E-05	8.841307E-06
2511	G	1.520293E-02	1.509551E-01	-2.588185E-01	1.720440E-02	1.377049E-04	1.031105E-03
		4.200954E-05	-1.632724E-04	-7.269607E-04	1.158857E-05	4.172207E-06	-7.014628E-06
2572	G	-1.253344E-03	4.223302E-01	-1.911984E-02	1.768672E-02	5.279985E-05	7.821629E-04
		4.820703E-05	-4.957189E-04	-8.186538E-04	4.313470E-05	-4.349019E-08	-1.517562E-05
2649	G	-6.825176E-04	2.871613E-01	-1.857303E-02	1.882464E-02	-1.748501E-04	5.317361E-04
		6.431035E-05	-2.468586E-03	-3.725659E-04	1.234436E-04	2.127767E-05	-1.324711E-05
2697	G	-1.190091E-02	-9.876472E-01	6.450429E-02	2.068941E-02	-3.113391E-04	-1.082128E-05
		-1.809321E-03	-1.761415E-02	1.892049E-03	3.413648E-04	-2.621346E-05	4.084818E-05
19777	G	1.340208E-02	-1.878951E-01	-1.492868E-01	1.665664E-02	1.683290E-04	1.306949E-03
		2.222305E-04	-7.859307E-04	-7.753347E-05	1.752255E-08	4.074335E-06	1.011178E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.399542E+00, -4.685574E+01

C O M P L E X E I G E N V E C T O R NO. 10
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-1.226116E-02	2.138902E-01	-6.340198E-02	0.0	0.0	0.0
		-5.109786E-05	3.720152E-03	-7.121427E-03	0.0	0.0	0.0
1003	G	-1.387439E-02	1.313794E-01	-4.108133E-02	0.0	0.0	0.0
		-8.868121E-05	1.995680E-03	-4.147817E-03	0.0	0.0	0.0
1004	G	-1.316838E-02	5.195373E-02	-2.272930E-02	0.0	0.0	0.0
		-1.793886E-04	5.836956E-04	-1.512737E-03	0.0	0.0	0.0
1006	G	-1.068420E-02	-5.793142E-02	4.808443E-04	0.0	-1.215459E-04	-1.282002E-03
		-5.780277E-04	-1.705942E-03	9.701912E-04	0.0	-3.030503E-05	-5.827800E-06
1007	G	-1.482772E-03	-1.148252E-01	2.363466E-02	0.0	0.0	0.0
		-2.311469E-04	-1.809377E-03	2.624537E-03	0.0	0.0	0.0
1012	G	-6.251690E-02	-1.894558E-02	-1.965122E-02	-9.632200E-04	5.533171E-04	2.188108E-03
		-1.988437E-03	3.320155E-03	4.272683E-03	1.765002E-04	8.047759E-05	7.215979E-05
1013	G	7.110330E-02	-1.894557E-02	3.953496E-02	-1.010290E-03	5.533247E-04	2.215200E-03
		2.917897E-03	3.320150E-03	-5.105938E-03	1.868540E-04	8.047344E-05	8.697588E-05
1017	G	7.315390E-02	-6.719481E-02	9.542247E-02	0.0	0.0	0.0
		-2.828534E-04	-1.679220E-03	4.564167E-03	0.0	0.0	0.0
1018	G	-6.055085E-02	-6.721162E-02	-7.032172E-02	0.0	0.0	0.0
		-7.346853E-04	-1.883317E-03	-1.462977E-03	0.0	0.0	0.0
1021	G	-9.582885E-03	-7.758322E-02	1.150263E-02	-5.494044E-04	-1.302786E-05	-1.349036E-03
		-1.188459E-03	-2.008083E-03	1.378827E-03	-3.645747E-05	6.903893E-05	-1.220415E-05
1022	G	6.421368E-03	2.638573E-02	1.154365E-02	-2.115010E-03	3.964148E-04	-1.141718E-03
		1.081007E-03	1.695639E-03	1.381239E-03	-6.660934E-05	5.091192E-05	-6.208782E-06
1023	G	-3.757484E-02	1.833298E-01	-1.141471E-01	1.973489E-03	-1.123928E-03	-2.224250E-03
		1.078519E-03	8.621824E-04	-3.194463E-03	2.581924E-05	-1.817221E-05	3.324217E-05
1024	G	6.995151E-02	1.782263E-01	6.749908E-02	1.877285E-03	2.610217E-04	-2.113222E-03
		1.805472E-03	7.104624E-04	-3.992759E-04	2.707148E-05	-4.694578E-05	3.778498E-05
1025	G	-3.750761E-02	-2.597850E-02	-3.678548E-02	1.508476E-03	-1.333977E-04	-1.374572E-03
		1.083467E-03	8.717354E-04	5.411185E-04	3.398883E-05	-4.088662E-05	-2.389042E-05
1026	G	6.886080E-02	-2.284950E-02	8.303875E-02	1.618789E-03	-5.873122E-04	-1.370700E-03
		1.798021E-03	1.033135E-03	4.847537E-03	4.127591E-05	-4.293851E-05	-2.624528E-05
1028	G	1.261028E-02	9.940821E-01	-3.884135E-01	-1.268501E-02	2.277857E-03	5.823787E-03
		1.048813E-02	2.841122E-04	-1.573957E-02	1.443476E-04	2.038599E-04	1.438821E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.399542E+00, -4.685574E+01

C O M P L E X E I G E N V E C T O R NO. 10
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-6.818578E-03	-1.628639E-01	2.323114E-02	1.220284E-03	2.583823E-05	-5.688172E-04
		-6.258840E-04	-2.456674E-03	2.571984E-03	6.095856E-05	-2.857233E-05	-4.110508E-06
2511	G	6.213132E-03	-1.263819E-01	2.080768E-02	7.547030E-04	-1.020715E-04	9.390314E-04
		4.179366E-04	-5.851047E-04	1.920789E-03	7.532578E-05	5.753426E-06	5.255266E-05
2572	G	-2.345707E-03	-2.802502E-02	9.245082E-03	-8.979911E-04	5.416934E-04	2.043839E-03
		-5.334741E-04	5.063234E-03	-4.509582E-04	1.143531E-04	5.941212E-05	7.636074E-05
2649	G	1.851322E-03	2.236142E-01	-6.986076E-02	-5.058698E-03	1.489626E-03	3.240170E-03
		-4.833667E-05	1.371794E-02	-1.230103E-02	2.369995E-04	6.534347E-05	1.403586E-04
2697	G	9.792770E-02	1.000000E+00	-1.829516E-01	-1.231534E-02	2.433684E-03	5.327951E-03
		1.233106E-02	0.0	-1.863146E-02	2.788281E-04	2.175920E-04	6.966011E-05
19777	G	-1.255305E-02	-6.045883E-02	-1.028290E-03	1.395309E-03	-2.653469E-04	-1.306690E-03
		-6.432003E-04	-1.811227E-03	9.074024E-04	5.813775E-05	-3.178076E-05	-6.451182E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.305214E+00, -5.062168E+01

C O M P L E X E I G E N V E C T O R NO. 11
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.318718E-02	7.289582E-02	3.489790E-01	0.0	0.0	0.0
		-2.476134E-04	7.954107E-03	1.566591E-03	0.0	0.0	0.0
1003	G	-2.317246E-02	4.102338E-02	1.918997E-01	0.0	0.0	0.0
		-3.272375E-04	4.688629E-03	8.544779E-04	0.0	0.0	0.0
1004	G	-1.461925E-02	1.075734E-02	5.078582E-02	0.0	0.0	0.0
		-6.946593E-05	1.697031E-03	6.198660E-04	0.0	0.0	0.0
1006	G	1.690447E-02	-2.136227E-02	-7.333230E-02	0.0	1.408297E-03	-4.717434E-04
		8.533147E-04	-2.190728E-03	-3.827137E-04	0.0	3.802623E-05	-4.782055E-05
1007	G	8.527148E-03	-3.838168E-02	-1.372846E-01	0.0	0.0	0.0
		6.384714E-04	-4.327205E-03	-1.322619E-03	0.0	0.0	0.0
1012	G	-4.703041E-02	2.243044E-02	6.898238E-02	-1.033386E-04	-4.113836E-03	1.073622E-03
		-1.763643E-03	3.348833E-04	-5.029343E-03	-4.876109E-05	-3.966008E-05	8.319127E-05
1013	G	1.484136E-02	2.243043E-02	8.330418E-02	-4.208435E-04	-4.113830E-03	9.725888E-04
		3.681784E-03	3.348831E-04	-4.793041E-03	4.917279E-05	-3.966085E-05	9.014185E-05
1017	G	4.740857E-02	-2.441650E-02	-7.135372E-02	0.0	0.0	0.0
		3.443520E-03	-2.567815E-03	1.531132E-03	0.0	0.0	0.0
1018	G	1.549548E-03	-2.431331E-02	-9.140053E-02	0.0	0.0	0.0
		-2.262128E-03	-2.515297E-03	-2.087497E-03	0.0	0.0	0.0
1021	G	6.307161E-02	-2.365677E-02	-7.386148E-02	-2.327799E-04	2.149315E-04	-4.703062E-04
		3.665820E-04	-2.548188E-03	1.098571E-04	-2.971935E-05	-3.507537E-05	-5.333731E-05
1022	G	-3.903290E-02	5.977785E-03	-7.416806E-02	-5.782506E-04	-2.629353E-03	-5.867517E-04
		-2.884888E-03	9.348387E-04	1.382839E-04	-6.447918E-05	-5.638539E-05	-5.046853E-05
1023	G	-1.101642E-01	5.302869E-03	1.370234E-01	-1.167115E-04	2.558341E-03	-2.080558E-04
		-2.581798E-04	8.125701E-03	-7.759920E-03	9.583668E-05	-1.488055E-04	-1.084990E-04
1024	G	-7.518678E-02	5.674978E-02	1.568855E-01	5.363681E-04	3.002949E-03	-1.037335E-03
		3.628934E-03	1.315973E-03	-3.581663E-03	-1.583152E-05	-1.158132E-04	-1.070067E-05
1025	G	-1.100491E-01	-1.460217E-02	-1.557187E-01	5.096150E-04	2.803888E-03	-3.880574E-04
		-2.557650E-04	-3.298027E-03	-6.957288E-04	-5.224731E-06	-3.098810E-05	-7.349683E-05
1026	G	-7.514172E-02	-3.980106E-02	-1.408535E-01	-3.417981E-04	2.494567E-03	-4.832358E-04
		3.821496E-03	-7.326830E-04	2.251510E-03	6.577986E-05	-4.889909E-05	-3.765478E-05
1028	G	-6.791879E-01	2.346759E-01	1.000000E+00	5.969558E-03	-9.078778E-03	8.137812E-03
		-8.720437E-03	3.250887E-02	0.0	-6.987884E-04	-1.259290E-04.	1.888384E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.305214E+00, -5.062168E+01

C O M P L E X E I G E N V E C T O R NO. 11
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	2.704757E-02	-4.885221E-02	-1.344189E-01	1.445058E-04	1.077315E-03	-8.227253E-05
		1.278220E-03	-5.368955E-03	-1.296566E-03	3.498538E-05	2.948007E-05	-2.236163E-05
2511	G	1.394868E-03	-4.076775E-02	-1.522826E-01	1.430562E-04	-5.764433E-04	2.819832E-04
		9.080805E-04	-4.585532E-03	-3.174335E-03	3.267071E-05	1.884592E-05	3.905043E-05
2572	G	3.300672E-02	2.053120E-02	7.667932E-02	-1.737728E-04	-4.162583E-03	9.581670E-04
		1.424434E-03	3.525811E-04	-4.470507E-03	-1.076532E-05	-4.728376E-05	8.724354E-05
2649	G	2.834099E-03	1.308087E-01	6.045728E-01	-8.821271E-04	-4.657681E-03	1.710141E-03
		1.814371E-03	1.050321E-02	5.344831E-03	-1.124664E-04	-6.919274E-04	1.285516E-04
2697	G	-5.825564E-01	2.345750E-01	9.372224E-01	2.466035E-03	-9.694078E-03	5.611076E-03
		-8.071731E-03	3.258081E-02	8.661571E-03	-4.048186E-04	-1.433443E-04	8.346468E-05
19777	G	1.950846E-02	-2.137403E-02	-7.336466E-02	2.996298E-05	1.849150E-03	-3.374764E-04
		8.370554E-04	-2.260088E-03	-4.046727E-04	3.885091E-05	2.351448E-05	-5.424573E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.108957E-01, -8.346183E+01

C O M P L E X E I G E N V E C T O R NO. 12
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	4.353008E-03	-5.514127E-04	-2.528857E-02	0.0	0.0	0.0
		3.548218E-04	-1.695131E-04	-2.101097E-03	0.0	0.0	0.0
1003	G	4.248211E-03	4.344923E-05	-1.217638E-02	0.0	0.0	0.0
		3.373088E-04	-5.591321E-06	-3.725718E-04	0.0	0.0	0.0
1004	G	2.856334E-03	4.387766E-04	-1.447102E-03	0.0	0.0	0.0
		-9.180718E-06	9.125207E-05	7.112647E-04	0.0	0.0	0.0
1006	G	1.609053E-03	3.298597E-04	-8.699049E-04	0.0	1.330686E-06	3.886401E-07
		8.366737E-05	5.793594E-05	3.583342E-04	0.0	1.152920E-05	-1.353243E-06
1007	G	1.789361E-03	1.010699E-04	-1.373803E-03	0.0	0.0	0.0
		9.955568E-05	-2.846602E-05	-4.587047E-04	0.0	0.0	0.0
1012	G	2.650507E-03	-2.847394E-03	-1.326232E-03	-5.421459E-05	-1.727232E-05	-3.467351E-05
		-4.429565E-05	-4.196088E-04	-1.818796E-03	-1.637011E-05	-6.610824E-06	-3.573470E-07
1013	G	1.345595E-03	-2.847389E-03	2.048993E-03	-5.956120E-05	-1.727176E-05	-9.939295E-06
		-1.293947E-04	-4.196072E-04	-1.522475E-03	5.576404E-06	-6.610698E-06	-2.985390E-06
1017	G	2.207823E-03	2.551678E-04	-1.996003E-03	0.0	0.0	0.0
		1.859414E-04	4.479061E-05	1.441848E-04	0.0	0.0	0.0
1018	G	1.461718E-03	3.080417E-04	-1.353298E-05	0.0	0.0	0.0
		-3.328061E-05	4.488856E-05	3.158914E-04	0.0	0.0	0.0
1021	G	6.676330E-04	6.793594E-04	-1.070559E-03	-7.449422E-06	9.282751E-06	-4.590877E-07
		7.910562E-05	9.483952E-05	3.394368E-04	-1.303044E-07	4.884092E-06	-1.495514E-06
1022	G	-2.908141E-04	-1.844144E-04	-1.082758E-03	2.372585E-05	-3.047848E-05	-6.322287E-06
		-7.576678E-05	-2.210208E-05	3.433480E-04	2.762721E-06	-6.822819E-06	-2.486502E-06
1023	G	-1.537822E-01	-8.868156E-01	9.990668E-01	-1.433262E-02	1.855148E-02	1.590559E-02
		-6.188600E-04	1.957453E-03	-5.199010E-04	4.838353E-05	-1.420725E-05	-3.037312E-05
1024	G	-1.526059E-01	8.897111E-01	1.000000E+00	1.431181E-02	1.886092E-02	-1.595715E-02
		-4.658896E-04	-1.023921E-03	0.0	-4.303892E-05	2.974497E-07	1.003889E-05
1025	G	-1.532892E-01	-3.362581E-02	-1.407288E-02	-3.392048E-03	3.022482E-03	-4.669189E-04
		-5.815925E-04	1.994395E-03	-1.627258E-03	6.500734E-05	2.886560E-05	3.088488E-05
1026	G	-1.523157E-01	3.040099E-02	-1.852631E-02	3.328552E-03	3.053898E-03	4.047462E-04
		-4.301400E-04	-1.936650E-03	-1.790739E-03	-7.085155E-05	3.119064E-05	-3.495953E-05
1028	G	1.459442E-03	3.548482E-03	-8.543328E-04	-1.685852E-04	-6.370291E-06	-2.478611E-05
		-3.575805E-03	4.713270E-04	2.259532E-03	3.160278E-05	-4.359897E-05	7.231951E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.108957E-01, -8.346183E+01

C O M P L E X E I G E N V E C T O R NO. 12
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	1.830692E-03	1.512277E-03	-1.409076E-03	-2.675572E-05	-1.638047E-05	-2.144962E-05
		4.645197E-04	8.663202E-05	-4.312320E-04	-1.990063E-06	1.385665E-05	-2.545388E-06
2511	G	1.802477E-03	-8.627689E-04	-5.741716E-04	-3.339898E-05	-8.236060E-06	-1.592000E-05
		-8.855446E-05	-1.853597E-04	-1.088118E-03	9.506659E-07	9.419827E-06	-7.374727E-06
2572	G	2.018316E-03	-3.429734E-03	3.424387E-04	-5.123220E-05	-2.327100E-05	-1.954008E-05
		1.209989E-05	-4.697474E-04	-1.514127E-03	-3.747291E-06	-6.047772E-06	-9.843449E-07
2649	G	1.837798E-03	-4.480949E-03	1.848164E-03	-9.118873E-05	-4.027988E-05	-1.997616E-05
		3.574303E-05	-3.778845E-04	3.238637E-04	-1.118815E-05	-4.630417E-06	3.389168E-06
2697	G	1.187609E-03	3.622083E-03	1.600731E-03	-1.615712E-04	-2.675736E-06	-1.267244E-05
		-2.773572E-03	4.697362E-04	1.924322E-03	1.459338E-05	-5.099536E-05	3.966180E-05
19777	G	1.638616E-03	3.598697E-04	-8.519923E-04	-1.658577E-05	1.683889E-05	-6.919030E-07
		9.914847E-05	5.917784E-05	3.594509E-04	-1.033969E-06	9.843851E-06	-2.072062E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.850773E+00, -9.683298E+01

C O M P L E X E I G E N V E C T O R NO. 13
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	3.115014E-03	-4.493871E-02	5.475009E-03	0.0	0.0	0.0
		2.038238E-03	-2.863594E-02	7.016599E-03	0.0	0.0	0.0
1003	G	3.659089E-03	-2.174598E-02	-3.494607E-03	0.0	0.0	0.0
		2.497440E-03	-9.382884E-03	-1.887475E-03	0.0	0.0	0.0
1004	G	2.300497E-03	-2.190976E-03	-2.212343E-03	0.0	0.0	0.0
		1.827824E-03	6.702409E-03	-3.181973E-03	0.0	0.0	0.0
1005	G	-2.181671E-03	1.767958E-03	-2.388333E-03	0.0	-1.859678E-04	1.821006E-04
		-8.982357E-04	7.542583E-03	-5.152050E-03	0.0	-5.761787E-05	3.874155E-05
1007	G	-6.138655E-04	8.976314E-03	-3.518798E-03	0.0	0.0	0.0
		-8.609733E-04	6.333107E-03	-1.316348E-03	0.0	0.0	0.0
1012	G	3.078297E-02	-1.084578E-01	-3.139070E-02	-1.593862E-03	-2.075533E-04	-1.138137E-03
		1.872711E-02	-6.088704E-02	8.099494E-03	-1.862349E-04	-1.586389E-04	-7.188980E-04
1013	G	-3.478230E-02	-1.084571E-01	7.212488E-02	-1.929228E-03	-2.075331E-04	-1.166913E-03
		-2.238608E-02	-6.088678E-02	3.224144E-02	-5.088286E-04	-1.586483E-04	-7.526733E-04
1017	G	-4.385189E-03	2.808568E-03	8.546410E-04	0.0	0.0	0.0
		-9.643830E-04	7.895382E-03	1.806340E-02	0.0	0.0	0.0
1018	G	7.189428E-03	2.971731E-03	-4.374493E-03	0.0	0.0	0.0
		1.773401E-03	7.893964E-03	-2.280461E-02	0.0	0.0	0.0
1021	G	4.234317E-03	3.980534E-03	-2.341781E-03	4.643949E-05	4.382102E-05	2.804723E-04
		2.428611E-03	4.200158E-03	-2.693758E-03	1.045141E-04	1.287194E-05	9.454585E-05
1022	G	-9.837486E-04	-6.767249E-04	-2.378291E-03	8.272452E-05	-1.358844E-04	2.484882E-04
		-4.853187E-04	-8.302479E-05	-2.734038E-03	3.358018E-05	-6.536543E-05	9.888347E-05
1023	G	2.253098E-02	1.000000E+00	-9.084614E-01	1.427678E-02	-1.818350E-02	-2.008072E-02
		-3.350563E-03	0.0	1.586268E-02	1.732033E-04	6.438239E-04	4.103740E-04
1024	G	-3.287559E-02	9.694559E-01	9.008560E-01	1.383735E-02	1.816406E-02	-1.943578E-02
		-1.481885E-03	-9.187356E-03	-1.981598E-02	1.629993E-05	-6.347351E-04	5.985751E-04
1025	G	2.232688E-02	3.925175E-02	-1.694841E-02	3.578434E-03	-4.005101E-04	7.236285E-04
		-3.374668E-03	3.846731E-02	-2.474758E-02	8.040885E-04	2.251078E-04	3.662915E-04
1026	G	-3.265337E-02	3.119744E-02	2.154980E-03	3.225985E-03	7.110900E-04	8.448101E-04
		-1.448897E-03	3.230433E-02	1.516101E-02	6.282205E-04	-4.722913E-05	3.347938E-04
1028	G	1.347681E-02	1.195839E-01	-1.002072E-01	-7.821367E-03	2.397322E-04	-7.264651E-04
		2.485740E-02	7.924103E-02	-7.420607E-02	-5.585979E-03	3.575880E-04	-9.909437E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.650773E+00, -9.683298E+01

C O M P L E X E I G E N V E C T O R NO. 13
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-3.981564E-03	6.171178E-02	-6.066471E-03	-5.728853E-04	-9.622580E-04	-8.176893E-04
		-2.674513E-03	6.741933E-03	-1.690617E-03	1.619375E-04	-1.494415E-04	-2.110085E-04
2511	G	-1.066199E-02	-1.661745E-02	1.157913E-02	-7.253743E-04	-8.733272E-05	-9.641950E-04
		-7.117395E-03	-3.404167E-03	9.353060E-04	9.809418E-05	-8.645789E-05	-6.368744E-04
2572	G	6.427232E-04	-1.238299E-01	1.799359E-02	-1.568992E-03	-2.094109E-04	-9.433451E-04
		2.835240E-04	-6.492983E-02	1.795085E-02	-4.788027E-04	-1.588350E-04	-5.797022E-04
2649	G	-1.478370E-03	-1.904382E-01	3.595574E-02	-3.392164E-03	-3.984829E-04	-1.086636E-03
		-1.798054E-03	-1.118955E-01	2.726243E-02	-1.794796E-03	-4.077183E-04	-7.052124E-04
2697	G	3.511697E-03	1.223188E-01	8.028910E-03	-6.582014E-03	2.355875E-04	-6.547471E-04
		1.291688E-02	8.103597E-02	1.505351E-03	-4.462490E-03	3.833326E-04	-6.517567E-04
19777	G	-1.954175E-03	1.948931E-03	-2.309892E-03	-7.263027E-05	-4.424693E-06	2.180188E-04
		-8.355491E-04	7.107484E-03	-5.423190E-03	2.510554E-04	1.574480E-06	5.541901E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -5.003501E+00, -1.049873E+02

C O M P L E X E I G E N V E C T O R NO. 14
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-3.556015E-03	1.170370E-01	-6.933410E-02	0.0	0.0	0.0
		9.702061E-03	-8.183554E-02	-1.835403E-02	0.0	0.0	0.0
1003	G	-5.819997E-03	3.486609E-02	-5.990144E-03	0.0	0.0	0.0
		1.086428E-02	-2.747536E-02	-2.008079E-02	0.0	0.0	0.0
1004	G	-6.557140E-03	-3.586698E-02	1.979974E-02	0.0	0.0	0.0
		6.010115E-03	1.949541E-02	-2.785288E-03	0.0	0.0	0.0
1006	G	4.698070E-03	-4.080716E-02	3.408760E-02	0.0	2.767201E-04	-1.087382E-04
		-1.405430E-03	1.683514E-02	-7.379103E-03	0.0	-1.194664E-04	2.892597E-04
1007	G	7.480149E-03	-3.020742E-02	1.088609E-03	0.0	0.0	0.0
		9.896791E-04	2.217714E-02	-7.321936E-03	0.0	0.0	0.0
1012	G	-7.772509E-02	2.255053E-01	-1.225604E-01	-9.114545E-04	7.390774E-04	3.051745E-03
		6.721343E-02	-1.991953E-01	4.048345E-02	-1.555561E-03	-4.116334E-04	-2.527401E-03
1013	G	8.581270E-02	2.255042E-01	-1.871933E-01	1.862541E-03	7.391233E-04	3.216589E-03
		-7.433688E-02	-1.991941E-01	6.831739E-02	-2.030530E-03	-4.116234E-04	-2.586219E-03
1017	G	8.566697E-03	-4.246249E-02	-8.688663E-02	0.0	0.0	0.0
		-8.230541E-03	1.847058E-02	7.181655E-02	0.0	0.0	0.0
1018	G	-7.629000E-03	-4.203310E-02	1.245432E-01	0.0	0.0	0.0
		1.398269E-02	1.863970E-02	-6.992578E-02	0.0	0.0	0.0
1021	G	-1.223693E-02	-2.327228E-02	2.193810E-02	-4.448884E-04	-8.597966E-05	-3.318002E-04
		7.875670E-03	4.982238E-03	9.703432E-04	3.504573E-04	1.263801E-04	3.795635E-04
1022	G	2.311613E-03	9.769501E-04	2.233755E-02	-2.656134E-04	3.474928E-04	-3.283507E-04
		-1.863828E-03	1.081335E-03	9.494280E-04	-1.249837E-04	-2.704963E-04	4.140512E-04
1023	G	3.395539E-02	1.000000E+00	-9.713620E-01	1.280810E-02	-2.128677E-02	-2.240129E-02
		-3.543606E-02	0.0	9.306864E-02	8.771253E-04	3.069992E-03	1.322322E-03
1024	G	-2.657693E-02	9.671866E-01	9.744395E-01	1.273285E-02	2.088486E-02	-2.162304E-02
		-1.586406E-02	-1.239248E-01	-1.037910E-01	-3.519601E-04	-2.949483E-03	3.981084E-03
1025	G	3.377563E-02	-1.903862E-01	1.456598E-01	-1.875171E-03	-2.103016E-03	-1.824703E-03
		-3.536438E-02	1.484274E-01	-1.110474E-01	3.920980E-03	1.652485E-03	1.691072E-03
1026	G	-2.842165E-02	-1.688708E-01	-8.286740E-02	-1.087585E-03	1.293349E-03	-1.700153E-03
		-1.583128E-02	1.114998E-01	6.488073E-02	2.430683E-03	-3.915506E-04	1.316028E-03
1028	G	-2.240798E-01	-3.054562E-01	3.571103E-01	2.522931E-02	-2.741149E-03	8.090782E-03
		-1.715133E-02	2.308527E-01	-1.879895E-01	-1.581056E-02	-7.281068E-06	-3.752718E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -5.003501E+00, -1.049873E+02

C O M P L E X E I G E N V E C T O R NO. 14
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	2.040598E-02	2.522977E-02	7.774486E-04	-1.416223E-03	7.448310E-06	2.210000E-04
		1.342269E-03	5.140972E-02	-9.480368E-03	3.465956E-04	-7.481079E-04	-9.803937E-04
2511	G	2.862191E-02	-5.803211E-03	-1.124906E-02	-1.164631E-03	6.334141E-04	2.373992E-03
		-2.068246E-02	-8.987200E-03	-1.133977E-02	1.825951E-04	4.198548E-05	-1.860018E-03
2572	G	-7.544408E-04	2.336729E-01	-1.252949E-01	1.201551E-03	7.332441E-04	2.411803E-03
		1.496630E-03	-2.170650E-01	1.035533E-02	-1.789469E-03	-3.440039E-04	-1.959480E-03
2649	G	1.173166E-02	4.482569E-01	-1.335915E-01	6.685874E-03	2.255108E-03	3.235448E-03
		-4.899548E-04	-3.743783E-01	6.473211E-02	-6.048079E-03	-1.162822E-03	-2.296841E-03
2697	G	-1.298870E-01	-3.130840E-01	2.068706E-02	1.950596E-02	-3.167655E-03	4.798011E-03
		-2.548278E-02	2.357680E-01	2.874690E-02	-1.288429E-02	-1.872088E-04	-7.669882E-04
19777	G	4.557375E-03	-3.843337E-02	3.565360E-02	-1.348143E-03	3.925628E-05	-1.857003E-04
		-8.862363E-04	1.511647E-02	-8.325430E-03	8.762286E-04	1.019622E-04	3.107983E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -8.047928E+00, -1.075832E+02

C O M P L E X E I G E N V E C T O R NO. 15
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-5.458273E-02	1.000180E-01	3.900828E-01	0.0	0.0	0.0
		-5.559814E-03	4.295127E-02	1.330881E-02	0.0	0.0	0.0
1003	G	-5.327127E-02	2.458754E-02	1.402878E-01	0.0	0.0	0.0
		-6.163789E-03	1.211495E-02	9.069296E-03	0.0	0.0	0.0
1004	G	-1.822859E-02	-3.520837E-02	-6.876116E-02	0.0	0.0	0.0
		-7.900361E-04	-1.291562E-02	2.880045E-03	0.0	0.0	0.0
1006	G	-1.951427E-02	-3.483170E-02	-8.837874E-02	0.0	-1.497825E-03	2.892388E-04
		1.422311E-03	-1.491328E-02	3.455898E-03	0.0	8.677804E-05	-5.438370E-05
1007	G	-3.392111E-02	-1.200032E-03	3.354159E-02	0.0	0.0	0.0
		-1.688429E-03	-1.111280E-02	-1.507076E-03	0.0	0.0	0.0
1012	G	-4.263464E-02	1.884673E-01	5.559378E-01	6.799174E-03	-3.595348E-04	1.240851E-03
		-3.124985E-02	9.589299E-02	1.544748E-02	-3.454874E-04	9.813844E-05	1.165732E-03
1013	G	2.164985E-02	1.884862E-01	4.651423E-01	-3.567550E-03	-3.595662E-04	1.088587E-03
		3.401041E-02	9.569261E-02	-5.548943E-03	7.485496E-04	8.816435E-05	1.222473E-03
1017	G	-3.758733E-02	-3.087850E-02	-7.160674E-02	0.0	0.0	0.0
		1.077501E-03	-1.540327E-02	-4.169057E-02	0.0	0.0	0.0
1018	G	1.262034E-02	-3.274840E-02	-7.988019E-02	0.0	0.0	0.0
		-1.451881E-03	-1.502449E-02	3.746647E-02	0.0	0.0	0.0
1021	G	1.756014E-02	-4.800395E-02	-9.235298E-02	1.901440E-04	-8.246968E-05	1.699149E-04
		-1.083398E-03	-5.301765E-03	-4.123008E-04	-3.058801E-04	-6.150718E-05	-1.282972E-04
1022	G	-2.659080E-03	9.521698E-03	-9.410898E-02	-1.433272E-03	-4.671655E-04	3.422145E-04
		6.844835E-04	-3.759749E-04	-1.517890E-04	6.655913E-05	7.635611E-05	-1.858015E-04
1023	G	1.055185E-01	-2.848331E-01	-8.121744E-02	-2.001936E-03	-1.496484E-03	5.741225E-03
		-5.174748E-02	3.373473E-01	-2.307758E-01	3.884198E-03	-4.959216E-03	-8.053418E-03
1024	G	3.819400E-02	3.167092E-01	1.585068E-01	4.362876E-03	3.899801E-03	-7.420484E-03
		-6.801037E-02	2.926882E-01	3.776299E-01	4.022801E-03	8.326396E-03	-6.379978E-03
1025	G	1.052923E-01	-7.105782E-03	-4.098092E-02	-1.779363E-04	-2.670673E-04	4.449404E-04
		-5.157828E-02	-5.288103E-02	1.677184E-02	-2.868072E-04	8.282425E-04	-7.570614E-04
1026	G	3.817061E-02	-2.558198E-02	-4.839830E-02	-1.118872E-05	8.449258E-05	-4.841673E-05
		-6.580050E-02	-8.281395E-02	-7.218055E-02	-1.345851E-03	1.767404E-03	-7.824222E-04
1028	G	1.000000E+00	-1.484482E-01	-3.560432E-01	-1.055215E-02	1.035631E-02	-3.218349E-02
		0.0	-1.228368E-01	1.124220E-01	9.808489E-03	3.256748E-04	2.536859E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -8.047928E+00, -1.075832E+02

C O M P L E X E I G E N V E C T O R NO. 15
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-1.112137E-01	-8.714545E-03	2.870713E-02	-5.459585E-05	-2.830102E-03	6.950977E-04
		-2.854607E-03	-9.242007E-04	-1.362032E-03	-4.363183E-04	-7.488423E-05	2.376232E-04
2511	G	8.468896E-03	5.201170E-02	1.802651E-01	-3.303335E-04	-2.699755E-03	1.784680E-03
		1.071320E-02	2.906977E-03	9.255030E-03	-3.416304E-04	-1.307769E-04	1.030008E-03
2572	G	-5.490558E-03	2.024878E-01	4.358533E-01	1.280399E-03	-4.178414E-04	8.880852E-04
		8.909151E-04	9.974301E-02	1.514562E-02	5.889059E-04	-2.627183E-04	8.905928E-04
2649	G	-3.706245E-02	2.121825E-01	1.446916E-01	4.373273E-03	-2.719885E-03	-8.132075E-04
		-3.828551E-03	1.704677E-01	-2.450554E-02	2.672483E-03	3.376186E-03	1.032614E-03
2697	G	6.458613E-01	-1.481012E-01	-2.443300E-01	-5.025204E-03	1.302332E-02	-1.808637E-02
		2.982302E-02	-1.246761E-01	-1.592531E-02	6.860714E-03	6.703649E-04	1.247064E-03
19777	G	-2.026510E-02	-3.433715E-02	-8.818916E-02	-1.949842E-04	-7.566539E-04	5.658787E-04
		1.337056E-03	-1.406098E-02	3.972537E-03	-4.785564E-04	-5.282429E-06	-7.013538E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.886219E+00, -1.169990E+02

C O M P L E X E I G E N V E C T O R NO. 15
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	1.525051E-02	-2.693039E-01	6.394829E-02	0.0	0.0	0.0
		-6.944849E-04	5.884916E-02	-2.686142E-02	0.0	0.0	0.0
1003	G	1.770821E-02	-1.119833E-01	3.740730E-02	0.0	0.0	0.0
		-1.599146E-03	2.807249E-02	-8.079365E-03	0.0	0.0	0.0
1004	G	1.351205E-02	3.044206E-02	2.456201E-02	0.0	0.0	0.0
		-2.252999E-03	-6.646692E-03	1.018813E-03	0.0	0.0	0.0
1006	G	6.614706E-03	1.587378E-01	1.492923E-02	0.0	9.867138E-04	-1.795007E-03
		-8.110445E-04	-2.791906E-02	6.510271E-03	0.0	-8.909102E-05	-5.380184E-05
1007	G	-6.387350E-03	-5.802757E-03	1.886078E-02	0.0	0.0	0.0
		2.829884E-03	-1.391162E-02	-1.888789E-03	0.0	0.0	0.0
1012	G	-3.077098E-02	6.472256E-02	1.319264E-01	3.028758E-03	-6.942924E-05	1.053870E-03
		-3.043228E-02	6.109008E-02	-4.071770E-02	-6.111731E-04	2.449834E-04	1.267670E-03
1013	G	2.432939E-02	6.472215E-02	8.179589E-03	1.379868E-03	-6.947248E-05	9.726839E-04
		4.086972E-02	6.108969E-02	-4.327598E-02	4.294753E-04	2.449888E-04	1.427211E-03
1017	G	4.593667E-02	1.499327E-01	-3.223352E-01	0.0	0.0	0.0
		1.402458E-02	-2.971495E-02	2.189093E-02	0.0	0.0	0.0
1018	G	-6.853769E-02	1.478708E-01	2.812641E-01	0.0	0.0	0.0
		-1.005959E-02	-2.918405E-02	-6.433662E-03	0.0	0.0	0.0
1021	G	-5.308961E-03	3.145686E-01	-2.215419E-02	-4.287473E-03	3.555774E-04	-1.033362E-03
		-3.512187E-03	-5.502779E-02	8.645303E-03	8.974638E-04	-1.501031E-04	-1.347044E-04
1022	G	1.150454E-03	-7.123090E-02	-2.264914E-02	1.113907E-02	6.299028E-05	-2.870351E-03
		9.028551E-04	1.185782E-02	8.886999E-03	-1.992885E-03	1.517348E-04	2.228559E-04
1023	G	1.035956E-01	7.275767E-01	-6.261705E-01	7.049612E-03	-1.585441E-02	-1.726637E-02
		-7.739514E-02	1.721817E-01	-5.407884E-02	2.038630E-03	-7.411978E-04	-3.971098E-03
1024	G	-2.939884E-03	1.000000E+00	5.786188E-01	9.854472E-03	1.416396E-02	-2.362504E-02
		-4.987363E-02	0.0	1.278626E-01	-1.540767E-04	2.910086E-03	7.489449E-05
1025	G	1.030862E-01	-1.202160E-01	2.206131E-01	-5.355937E-03	-3.816406E-03	-5.211525E-04
		-7.722951E-02	-1.410316E-02	-2.853436E-02	1.017778E-03	1.373441E-03	-5.052788E-04
1026	G	-2.785538E-03	-7.820428E-02	-1.788004E-01	-3.459440E-03	1.972205E-03	-2.784175E-05
		-4.877559E-02	-9.482219E-02	-5.887989E-02	-2.135998E-03	1.590764E-03	-1.388913E-03
1028	G	1.338879E-01	-4.635114E-02	-8.828168E-04	1.959235E-03	1.489330E-03	-4.185786E-03
		-7.898953E-02	-8.832398E-02	1.271002E-01	9.581057E-03	-7.500949E-04	3.795867E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.888219E+00, -1.189990E+02

C O M P L E X E I G E N V E C T O R NO. 16
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	1.908616E-02	-5.027161E-01	4.854806E-02	9.855807E-04	1.094178E-02	6.462602E-03
		3.486773E-03	7.151538E-02	-6.141527E-03	-5.060953E-04	-1.542688E-03	-9.641291E-04
2511	G	2.869535E-03	2.891402E-03	2.073739E-03	1.183818E-03	-3.124011E-04	6.501288E-04
		9.603249E-03	-1.779087E-02	1.410583E-03	-5.936896E-04	9.785148E-05	6.458618E-04
2572	G	-1.878411E-03	8.418502E-02	5.836097E-02	1.744860E-03	-6.293778E-05	7.412407E-04
		1.806796E-03	6.202162E-02	-3.432232E-02	2.818166E-04	9.456601E-05	9.156353E-04
2649	G	-7.185793E-03	1.328229E-01	1.597585E-02	2.649429E-03	-3.009961E-05	7.310945E-04
		4.866380E-03	1.576774E-01	-4.477520E-02	2.252367E-03	1.135041E-03	1.449416E-03
2697	G	9.137070E-02	-4.715886E-02	-3.121405E-02	1.948329E-03	1.959056E-03	-1.627728E-03
		-3.365309E-02	-9.082384E-02	2.410620E-03	6.897784E-03	-7.803459E-04	2.275986E-03
19777	G	3.909282E-03	1.656462E-01	1.929472E-02	-4.042122E-03	-3.353557E-04	-1.946096E-03
		-8.485918E-04	-2.822465E-02	6.314150E-03	1.815933E-04	-4.747448E-06	-2.685359E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.451561E-01, -1.181006E+02

C O M P L E X E I G E N V E C T O R NO. 17
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	1.344005E-02	5.147263E-03	-3.540305E-02	0.0	0.0	0.0
		2.534179E-03	-4.917276E-04	-1.816474E-02	0.0	0.0	0.0
1003	G	1.299758E-02	1.858698E-03	-9.241604E-03	0.0	0.0	0.0
		2.364577E-03	6.834572E-04	-4.617987E-03	0.0	0.0	0.0
1004	G	1.006378E-02	-1.108483E-03	8.267927E-03	0.0	0.0	0.0
		-2.985997E-05	1.274747E-03	4.923372E-03	0.0	0.0	0.0
1006	G	8.200438E-03	-1.784383E-04	4.421457E-03	0.0	7.901815E-05	-4.467444E-05
		2.484449E-04	-1.195969E-03	2.321869E-03	0.0	7.086014E-05	1.203441E-05
1007	G	6.829592E-03	-2.072709E-03	4.356038E-03	0.0	0.0	0.0
		3.756774E-04	2.545094E-04	-4.151396E-03	0.0	0.0	0.0
1012	G	3.117981E-03	2.112562E-02	4.908793E-02	5.210007E-04	-1.242588E-04	1.230186E-04
		1.218686E-03	-8.032392E-03	-1.305879E-02	-2.509249E-04	-6.918826E-05	-6.209999E-05
1013	G	1.563753E-02	2.112544E-02	4.579185E-02	-5.298415E-04	-1.242574E-04	3.444439E-04
		-3.320950E-03	-8.032336E-03	-5.613977E-03	-3.749872E-05	-6.918342E-05	-9.707820E-05
1017	G	1.073546E-02	-6.001836E-04	-1.080321E-02	0.0	0.0	0.0
		5.883815E-04	-1.201742E-03	7.354068E-03	0.0	0.0	0.0
1018	G	7.301055E-03	-2.345595E-04	1.572662E-02	0.0	0.0	0.0
		3.686554E-04	-1.113781E-03	-3.308030E-03	0.0	0.0	0.0
1021	G	1.184178E-02	4.069465E-03	2.663560E-03	-1.226315E-04	1.187401E-04	-4.599199E-05
		7.801600E-04	-3.228026E-03	3.020879E-03	6.180291E-05	3.930018E-05	5.543556E-06
1022	G	-2.439098E-03	-1.221138E-03	2.725550E-03	1.858507E-04	-3.988246E-04	-1.107079E-04
		-3.710162E-04	7.987302E-04	3.090489E-03	-1.259633E-04	-5.053855E-05	2.270368E-05
1023	G	-8.170323E-01	1.000000E+00	3.799162E-01	1.513289E-02	1.257672E-02	-2.277318E-02
		-6.523324E-03	0.0	1.524241E-02	-3.622268E-05	3.252597E-04	5.076740E-05
1024	G	-8.182537E-01	-9.348035E-01	4.456426E-01	-1.470901E-02	1.424767E-02	2.104721E-02
		-5.832961E-04	-3.805712E-02	-2.508089E-02	-4.748082E-04	-5.993301E-04	8.488314E-04
1025	G	-8.146572E-01	6.171877E-01	-7.336145E-01	2.432523E-02	2.186752E-02	6.991421E-03
		-6.282702E-03	1.080753E-03	-2.888785E-03	4.560257E-05	8.011310E-05	-3.345534E-05
1026	G	-8.158785E-01	-6.837858E-01	-7.701033E-01	-2.551076E-02	2.234442E-02	-7.628773E-03
		-3.748240E-04	3.796836E-03	4.610883E-03	8.038980E-05	-6.557023E-05	2.088561E-05
1028	G	1.006005E-01	-1.885872E-02	-1.277721E-02	-4.290889E-04	8.404929E-04	-3.558485E-03
		-1.876188E-02	8.830978E-03	5.264849E-03	-1.950088E-04	-1.764836E-04	3.893401E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.451561E-01, -1.181006E+02

C O M P L E X E I G E N V E C T O R NO. 17
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	5.978618E-03	-7.822369E-03	4.885146E-03	-9.042134E-05	1.240061E-04	1.861924E-04
		2.888705E-03	8.449535E-03	-4.363402E-03	-1.239122E-05	-6.529322E-05	-1.308382E-04
2511	G	1.008783E-02	1.054686E-03	1.383211E-02	-1.454387E-04	-1.990233E-04	2.571104E-04
		-1.288337E-03	-1.706487E-03	-7.926165E-03	3.108750E-06	5.113255E-05	-9.061137E-05
2572	G	9.108557E-03	2.161164E-02	3.918849E-02	7.242432E-05	-1.667751E-04	1.850085E-04
		1.855599E-04	-9.181487E-03	-7.574360E-03	-8.538870E-05	-1.128220E-04	-6.484761E-05
2649	G	5.241806E-03	3.127209E-02	2.219981E-02	5.132090E-04	-5.285618E-04	2.622481E-05
		-6.108919E-04	-1.380800E-02	3.508551E-03	-2.539033E-04	2.110328E-04	-6.162785E-05
2697	G	6.224484E-02	-1.677487E-02	-8.641689E-03	-2.053534E-04	1.144087E-03	-1.636861E-03
		-1.252868E-02	9.127650E-03	8.939316E-03	-3.298038E-04	-1.763033E-04	1.797810E-04
19777	G	8.279954E-03	1.183082E-04	4.606990E-03	-1.717896E-04	6.907661E-05	-4.150235E-05
		4.007926E-04	-1.330472E-03	2.239924E-03	7.587531E-05	7.922201E-05	1.087787E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -3.355287E-01, -1.371099E+02

C O M P L E X E I G E N V E C T O R NO. 18
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-4.052788E-03	-2.246065E-03	5.762804E-03	0.0	0.0	0.0
		-9.154136E-04	2.994392E-04	7.773228E-03	0.0	0.0	0.0
1003	G	-3.950033E-03	-7.818979E-04	2.729753E-03	0.0	0.0	0.0
		-8.184061E-04	-1.556579E-04	1.311439E-03	0.0	0.0	0.0
1004	G	-3.339995E-03	4.768888E-04	1.029527E-03	0.0	0.0	0.0
		2.403565E-04	-3.878006E-04	-2.856440E-03	0.0	0.0	0.0
1006	G	-2.884502E-03	3.174660E-04	6.151892E-03	0.0	-2.588328E-06	-4.762744E-06
		5.573139E-05	6.907194E-05	-1.152639E-03	0.0	-4.173881E-05	8.780032E-06
1007	G	-2.402552E-03	3.545278E-04	5.265289E-03	0.0	0.0	0.0
		1.774441E-04	2.291807E-04	2.193262E-03	0.0	0.0	0.0
1012	G	-1.943808E-03	-8.213789E-03	-2.040150E-02	-3.162175E-04	1.367739E-04	4.506596E-06
		1.031209E-03	-8.858359E-04	1.599794E-03	4.943261E-05	5.136425E-05	-2.393735E-05
1013	G	-4.125009E-03	-8.213727E-03	-2.053047E-02	3.293181E-04	1.367730E-04	-8.839515E-05
		8.636772E-04	-8.858345E-04	1.781944E-04	2.288686E-05	5.136166E-05	1.381344E-05
1017	G	-3.223080E-03	2.958311E-04	8.585587E-03	0.0	0.0	0.0
		-3.239618E-04	1.347804E-04	-1.128081E-04	0.0	0.0	0.0
1018	G	-3.309822E-03	4.630514E-04	3.285892E-03	0.0	0.0	0.0
		5.485718E-04	1.088309E-04	-1.070518E-03	0.0	0.0	0.0
1021	G	-9.707557E-03	-9.288485E-04	7.720316E-03	6.061252E-05	-2.045410E-04	2.374374E-06
		-2.374248E-04	-7.459141E-05	-1.130720E-03	1.775517E-06	-2.359451E-05	9.318348E-06
1022	G	2.348230E-03	3.252508E-04	7.962045E-03	-5.402861E-05	4.034838E-04	4.880039E-05
		1.434588E-04	2.480758E-05	-1.167418E-03	-3.350144E-06	2.261889E-05	1.248779E-05
1023	G	3.391455E-01	-7.107471E-01	-6.327743E-02	9.401972E-03	6.340223E-05	2.249282E-02
		-3.826402E-03	6.647622E-03	-1.589856E-03	2.648228E-05	2.858290E-05	-1.742552E-04
1024	G	3.401433E-01	7.059358E-01	-7.602674E-02	-9.268704E-03	-2.830481E-04	-2.230430E-02
		-5.863785E-03	-9.283868E-03	5.461084E-04	5.069294E-05	4.661314E-05	2.762452E-04
1025	G	3.377105E-01	1.000000E+00	-8.959533E-01	3.636193E-02	1.189148E-02	1.891492E-02
		-3.883777E-03	0.0	1.332164E-03	-1.685816E-05	-3.334038E-06	-2.259470E-06
1026	G	3.387031E-01	-9.784819E-01	-8.789881E-01	-3.570262E-02	1.180284E-02	-1.858415E-02
		-6.007717E-03	8.649302E-03	6.022247E-03	2.273056E-04	-5.491923E-05	1.304015E-04
1028	G	-5.270802E-02	1.276788E-03	1.170224E-02	9.853830E-04	-3.705985E-04	2.421808E-03
		-5.047422E-03	-7.841304E-04	-2.144359E-05	1.838523E-04	-1.423451E-05	4.213142E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -3.355287E-01, -1.371099E+02

C O M P L E X E I G E N V E C T O R NO. 18
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-2.309449E-03	1.655956E-03	5.173535E-03	2.432513E-05	-2.395583E-05	-4.133231E-05
		-1.174070E-03	-3.266273E-04	2.125626E-03	7.843159E-06	-4.487058E-05	4.977998E-06
2511	G	-3.312428E-03	-8.206591E-04	1.431981E-03	3.775509E-05	1.000895E-04	-8.454593E-05
		4.538099E-04	2.986609E-04	3.658946E-03	-8.574517E-06	-5.607600E-06	4.608897E-06
2572	G	-3.815808E-03	-6.154396E-03	-1.580347E-02	-6.950672E-06	1.559296E-04	-2.785000E-05
		-5.610740E-05	-4.731411E-04	6.006997E-04	1.272871E-06	7.883921E-05	-6.827502E-07
2649	G	-1.267214E-03	-5.396214E-03	-1.574613E-02	-9.233746E-05	4.701340E-04	8.153066E-05
		9.217008E-04	4.987799E-04	-5.589888E-03	1.517803E-05	-5.970680E-05	2.885449E-05
2687	G	-2.636690E-02	1.023719E-03	-3.021723E-04	6.600138E-04	-5.230733E-04	1.104533E-03
		-4.346798E-04	-9.525941E-04	-2.463345E-03	1.784463E-04	-5.265372E-05	1.917319E-04
19777	G	-2.980196E-03	1.639810E-04	6.067539E-03	7.810490E-05	-4.740559E-05	-9.596193E-06
		-6.267880E-06	6.654708E-05	-1.155214E-03	2.383926E-06	-3.937021E-05	8.210292E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -7.666564E-01, -1.509125E+02

C O M P L E X E I G E N V E C T O R NO. 19
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.195168E-03	3.204824E-02	-3.988898E-03	0.0	0.0	0.0
		-1.583045E-03	1.328618E-02	-5.997258E-05	0.0	0.0	0.0
1003	G	-2.638498E-03	1.201002E-02	1.224678E-03	0.0	0.0	0.0
		-1.905981E-03	1.980787E-04	4.173035E-03	0.0	0.0	0.0
1004	G	-1.280882E-03	-4.197850E-03	-3.222244E-03	0.0	0.0	0.0
		-6.533300E-04	-8.214647E-03	-1.621317E-04	0.0	0.0	0.0
1006	G	5.307277E-04	2.123186E-03	-5.765259E-04	0.0	-8.800081E-05	3.105568E-04
		1.123004E-03	-1.185643E-03	1.147888E-03	0.0	-1.393747E-07	1.572232E-04
1007	G	6.815475E-04	1.485124E-02	-1.219251E-03	0.0	0.0	0.0
		5.233443E-04	6.351260E-03	-3.304097E-04	0.0	0.0	0.0
1012	G	2.402238E-02	-2.006370E-02	-1.128365E-02	-1.813610E-04	-8.584480E-05	-8.920549E-04
		1.067899E-02	3.316897E-03	-8.843481E-03	-2.260267E-04	-5.506089E-05	-4.434178E-04
1013	G	-2.602830E-02	-2.008348E-02	-7.838622E-03	1.671937E-04	-9.565405E-05	-1.030077E-03
		-1.172780E-02	3.316864E-03	-1.980420E-03	-6.787470E-06	-5.505961E-05	-4.857889E-04
1017	G	-1.584034E-02	4.373922E-03	2.284518E-02	0.0	0.0	0.0
		-1.078361E-02	4.318859E-04	-4.863040E-03	0.0	0.0	0.0
1018	G	1.668037E-02	4.588457E-03	-1.936122E-02	0.0	0.0	0.0
		1.030476E-02	4.439131E-04	5.945411E-03	0.0	0.0	0.0
1021	G	-3.345209E-03	-4.499926E-03	2.287736E-03	2.035083E-04	-1.310411E-04	2.799859E-04
		-3.598494E-03	2.391532E-04	9.127848E-04	-3.959464E-05	-1.039562E-04	1.136633E-04
1022	G	8.858185E-04	1.473345E-03	2.375542E-03	-2.471783E-04	1.889243E-04	3.494615E-04
		8.370112E-04	-1.872196E-04	9.466657E-04	3.434393E-05	1.552109E-04	1.189795E-04
1023	G	4.670862E-01	-9.460788E-01	-9.986396E-01	-5.870398E-03	-2.966628E-02	2.716855E-02
		3.838109E-03	1.488805E-02	-7.610222E-05	5.335235E-04	1.952591E-04	-4.920650E-04
1024	G	-4.649940E-01	-9.483665E-01	1.000000E+00	-5.933126E-03	2.975727E-02	2.721826E-02
		-5.963879E-03	1.527746E-02	0.0	5.358967E-04	-2.084931E-04	-5.080173E-04
1025	G	4.631149E-01	-2.418373E-01	3.200664E-01	-1.036237E-02	-1.105572E-02	-2.385474E-03
		3.362883E-03	2.662814E-02	-1.889014E-02	6.823220E-04	3.859783E-04	5.106395E-04
1026	G	-4.610332E-01	-2.454105E-01	-3.218694E-01	-1.048395E-02	1.103353E-02	-2.488679E-03
		-5.485942E-03	2.623632E-02	1.885469E-02	8.884260E-04	-3.759787E-04	5.046934E-04
1028	G	-8.118242E-03	3.213805E-02	-4.448597E-02	-4.290082E-03	-1.744273E-04	-3.349177E-04
		1.483499E-02	9.741238E-03	-2.855675E-02	-2.884151E-03	-8.885628E-05	-1.588332E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -7.666564E-01, -1.509125E+02

C O M P L E X E I G E N V E C T O R NO. 19
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	4.273496E-03	-1.153393E-02	-2.455776E-04	2.327770E-04	4.692613E-04	3.909263E-04
		2.915041E-03	-6.231848E-03	2.220155E-04	2.247451E-05	2.750273E-04	2.713033E-04
2511	G	-3.028058E-03	2.297873E-02	-1.034786E-02	3.290698E-04	1.104328E-04	-2.945837E-04
		1.334822E-04	1.348373E-02	-3.220954E-03	5.501592E-05	6.305466E-05	8.719638E-06
2572	G	4.402597E-04	-2.073451E-02	-5.800075E-03	-1.539630E-04	-9.802655E-05	-5.601166E-04
		3.321288E-04	2.151057E-03	-3.898236E-03	-1.119807E-04	-8.396857E-06	-2.340543E-04
2649	G	2.092675E-04	-8.210844E-02	1.197044E-02	-1.194156E-03	-2.773482E-04	-8.779692E-04
		1.932083E-04	-3.203874E-02	8.076162E-03	-5.360619E-04	-4.049420E-04	-5.567867E-04
2897	G	-1.516028E-02	3.309842E-02	1.014832E-02	-2.834193E-03	-3.147841E-04	-5.776312E-04
		-4.999308E-03	1.029041E-02	5.917638E-03	-1.567251E-03	-1.908666E-04	-9.713545E-04
19777	G	9.140015E-04	1.582119E-03	-9.005779E-04	3.000482E-04	2.053974E-05	3.206503E-04
		1.308448E-03	-1.124972E-03	1.175717E-03	-2.576944E-05	1.332254E-05	1.485035E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.459772E+00, -1.595334E+02

C O M P L E X E I G E N V E C T O R NO. 20
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-3.452835E-03	3.671646E-02	1.408644E-02	0.0	0.0	0.0
		-3.350933E-03	9.806636E-03	2.820041E-02	0.0	0.0	0.0
1003	G	-4.808984E-03	-6.775767E-03	2.375015E-02	0.0	0.0	0.0
		-3.265464E-03	-3.464040E-03	6.859239E-03	0.0	0.0	0.0
1004	G	-1.482190E-03	-3.598331E-02	-2.569029E-03	0.0	0.0	0.0
		1.858886E-03	-8.897481E-03	-1.400651E-02	0.0	0.0	0.0
1006	G	3.231052E-03	-5.088842E-03	5.787868E-03	0.0	-3.934382E-05	9.177453E-05
		1.328561E-03	1.299978E-03	-3.654369E-03	0.0	-2.417263E-04	2.283589E-04
1007	G	3.140551E-03	-4.144895E-03	6.830119E-03	0.0	0.0	0.0
		1.857619E-03	9.078264E-03	1.178505E-02	0.0	0.0	0.0
1012	G	1.101598E-02	-1.490479E-02	-4.822592E-02	-1.341225E-03	1.932764E-04	-3.137749E-04
		2.039101E-02	-1.389187E-02	-2.223773E-02	-3.827769E-04	2.887225E-04	-7.391518E-04
1013	G	1.931691E-03	-1.480485E-02	-1.741891E-02	3.660241E-05	1.933041E-04	-3.584203E-05
		-9.182482E-03	-1.369185E-02	-2.181869E-02	4.906898E-04	2.857102E-04	-4.988523E-04
1017	G	-1.605634E-02	-1.362080E-03	-6.033485E-02	0.0	0.0	0.0
		-1.413655E-02	3.265814E-03	3.996910E-03	0.0	0.0	0.0
1018	G	1.499215E-02	-1.541075E-03	6.152958E-02	0.0	0.0	0.0
		1.402260E-02	3.190068E-03	-4.952772E-03	0.0	0.0	0.0
1021	G	-1.730679E-02	2.717896E-02	9.264709E-04	-1.188321E-03	-5.118968E-04	4.690548E-05
		-6.724501E-03	-2.587338E-04	-2.521518E-03	5.235367E-05	-3.084048E-04	2.018061E-04
1022	G	4.300358E-03	-8.238573E-03	9.630003E-04	1.460071E-03	7.888664E-04	-1.952877E-04
		2.086952E-03	2.068892E-04	-2.630681E-03	-3.513842E-05	3.775203E-04	2.494265E-04
1023	G	9.444087E-02	-3.932340E-01	-2.480885E-01	1.249519E-02	-5.388490E-03	1.422573E-02
		-4.038725E-02	9.886188E-02	7.970224E-02	1.593557E-04	2.705686E-03	-3.091929E-03
1024	G	-1.286723E-01	-3.961865E-01	2.522837E-01	1.267837E-02	5.471406E-03	1.437285E-02
		3.098891E-03	8.948926E-02	-6.801059E-02	4.401523E-04	-2.223393E-03	-2.558167E-03
1025	G	8.308679E-02	8.987517E-01	-8.795552E-01	3.835126E-02	1.684844E-02	2.061333E-02
		-4.017814E-02	-2.205080E-03	1.118806E-02	-4.778585E-04	9.248230E-05	-2.448028E-04
1026	G	-1.272070E-01	1.000000E+00	8.833824E-01	3.838413E-02	-1.847731E-02	2.082122E-02
		3.087728E-03	0.0	-5.712287E-03	-3.848324E-04	2.881220E-04	-3.800626E-05
1028	G	-8.006883E-02	1.602803E-03	2.138698E-02	1.842344E-03	-5.595837E-04	4.428707E-03
		-8.011445E-02	1.127852E-02	-2.359828E-03	1.017017E-04	-5.126177E-04	4.807671E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.459772E+00, -1.595334E+02

C O M P L E X E I G E N V E C T O R NO. 20
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	6.422962E-03	-1.727402E-03	7.219369E-03	-1.488394E-04	1.741235E-04	1.220495E-04
		3.121851E-05	-5.318758E-03	1.200955E-02	1.234752E-04	9.243852E-05	2.341663E-04
2511	G	3.121985E-03	-4.493692E-03	6.285733E-03	-2.354386E-04	1.274780E-04	-7.756459E-05
		1.271647E-03	1.359283E-02	1.044568E-02	9.402252E-05	1.222421E-04	-1.018161E-04
2572	G	2.328361E-03	-1.900101E-02	-2.306232E-02	-3.284095E-04	9.571809E-05	-1.114783E-04
		3.825297E-04	-1.386370E-02	-1.558077E-02	-1.288022E-04	3.118578E-04	-3.080851E-04
2649	G	5.630508E-03	-2.112622E-02	-2.327159E-02	-4.493417E-04	8.577294E-04	5.091379E-05
		6.077073E-03	-4.257948E-02	-2.258851E-02	-6.518328E-04	1.550643E-04	-2.881205E-04
2697	G	-3.224222E-02	1.467995E-03	6.982033E-05	9.834835E-04	-7.242107E-04	1.910790E-03
		-3.192901E-02	1.085352E-02	-3.001153E-03	1.876776E-04	-8.375655E-04	1.787338E-03
19777	G	3.132384E-03	-4.051857E-03	6.420818E-03	-5.860662E-04	-9.989528E-05	7.513309E-05
		1.238605E-03	1.168497E-03	-3.736199E-03	7.576825E-05	-1.851757E-04	2.253335E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.519114E+01, -1.658800E+02

C O M P L E X E I G E N V E C T O R NO. 21
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	1.549482E-02	5.133438E-02	-2.676536E-01	0.0	0.0	0.0
		-5.175115E-04	2.925975E-02	-1.972124E-02	0.0	0.0	0.0
1003	G	8.746764E-03	1.652545E-02	-6.210496E-03	0.0	0.0	0.0
		-1.790238E-03	-1.482919E-03	1.283385E-02	0.0	0.0	0.0
1004	G	-1.993397E-02	-1.755608E-02	1.191631E-01	0.0	0.0	0.0
		-7.127638E-03	-2.126740E-02	6.902614E-03	0.0	0.0	0.0
1006	G	1.666431E-03	-1.591182E-02	4.211308E-02	0.0	2.033943E-03	-4.043837E-05
		2.358678E-03	-4.465065E-03	3.321961E-03	0.0	1.476269E-04	3.532584E-04
1007	G	-9.136946E-03	1.830937E-03	-1.191243E-01	0.0	0.0	0.0
		6.333152E-04	1.075309E-02	5.701755E-04	0.0	0.0	0.0
1012	G	-3.821742E-02	1.158835E-01	1.199620E-01	1.390536E-03	-3.400888E-03	5.715970E-04
		2.773786E-02	1.068261E-02	-4.471370E-02	-1.908328E-03	-2.874295E-04	-1.214484E-03
1013	G	-7.462835E-02	1.158824E-01	1.984725E-01	-5.211953E-03	-3.400561E-03	-2.177193E-03
		-2.437991E-02	1.068265E-02	-1.270302E-02	5.415685E-04	-2.973965E-04	-8.216072E-04
1017	G	-1.207329E-02	-1.313006E-02	-5.661868E-02	0.0	0.0	0.0
		-2.511739E-02	-1.095132E-03	-1.333526E-02	0.0	0.0	0.0
1018	G	5.480513E-03	-1.236037E-02	7.847585E-02	0.0	0.0	0.0
		2.137803E-02	-1.420794E-03	1.755020E-02	0.0	0.0	0.0
1021	G	-7.126097E-03	-7.104949E-03	3.701081E-02	-1.044152E-04	5.398800E-04	-2.444014E-04
		-6.014666E-03	5.421493E-03	6.305802E-04	-3.830273E-04	-3.306208E-05	2.264113E-04
1022	G	-2.153167E-03	4.659970E-04	3.874286E-02	-8.624391E-05	-2.849777E-04	-2.940631E-04
		4.334974E-04	-2.098470E-03	3.289262E-04	3.775214E-04	1.391802E-04	1.458986E-04
1023	G	1.068775E-01	-1.798690E-02	-1.145014E-01	3.535698E-03	-4.412537E-03	1.105359E-03
		1.642142E-02	-2.904862E-02	-3.629714E-02	3.173433E-03	-4.148993E-04	1.326785E-03
1024	G	1.056493E-01	1.683030E-02	7.888213E-03	1.483013E-03	-8.250338E-04	-1.604483E-03
		3.828103E-02	1.629148E-01	-1.402148E-01	3.207713E-03	-4.979085E-03	-4.731107E-03
1025	G	1.062643E-01	9.491320E-02	-1.309809E-01	4.817178E-03	2.012840E-03	3.311448E-03
		1.532960E-02	2.092365E-01	-1.792777E-01	7.857735E-03	3.452263E-03	4.314667E-03
1026	G	1.080921E-01	1.361770E-01	1.186617E-01	6.139855E-03	-4.675090E-03	2.789597E-03
		3.770157E-02	1.881594E-01	1.658468E-01	6.911125E-03	-3.767882E-03	3.886781E-03
1028	G	1.000000E+00	5.854274E-02	-3.558635E-01	-3.852385E-02	3.798129E-03	-6.840799E-02
		0.0	2.246847E-02	-4.072580E-02	-3.397248E-03	1.901347E-04	1.352819E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.519114E+01, -1.658800E+02

C O M P L E X E I G E N V E C T O R NO. 21
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	4.832967E-02	-9.950472E-03	-1.146276E-01	-4.954651E-04	2.523473E-03	8.124535E-04
		1.086265E-02	-9.692329E-03	1.033763E-03	7.892843E-05	6.631416E-04	5.340798E-04
2511	G	-1.366518E-02	3.687518E-02	-1.521133E-01	2.123328E-04	-4.043181E-04	5.522878E-04
		-7.150228E-05	2.720543E-02	-1.350126E-02	1.734094E-04	1.803135E-04	6.900682E-05
2572	G	5.261918E-03	1.042360E-01	1.104487E-01	-2.533408E-04	-3.228052E-03	-2.765320E-04
		3.724365E-03	5.392449E-03	-9.980077E-03	-2.620076E-04	-7.708457E-04	-6.105858E-04
2649	G	-4.983080E-02	-4.734654E-02	3.371377E-01	-1.084478E-03	-8.233205E-03	-4.137757E-03
		-5.890721E-03	-9.166682E-02	2.515680E-02	-1.535288E-03	2.424673E-03	-1.527221E-03
2697	G	2.447733E-01	6.720472E-02	1.190434E-01	-2.415579E-02	5.510395E-03	-3.073380E-02
		7.183763E-03	2.744327E-02	5.182639E-03	-3.562258E-03	6.344660E-04	-6.073240E-04
19777	G	4.909174E-03	-1.523441E-02	4.260352E-02	-4.541073E-04	1.828705E-03	-4.530176E-05
		2.943808E-03	-4.183899E-03	3.497015E-03	-1.620865E-04	1.449299E-04	3.002371E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.088592E+01, -1.740543E+02

C O M P L E X E I G E N V E C T O R NO. 22
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-3.931059E-02	2.425798E-01	1.538531E-01	0.0	0.0	0.0
		-1.275376E-02	-3.774058E-02	-1.245450E-02	0.0	0.0	0.0
1003	G	-4.312480E-02	-2.953865E-03	8.525743E-02	0.0	0.0	0.0
		-1.038898E-02	2.318461E-03	-3.783953E-02	0.0	0.0	0.0
1004	G	-2.553867E-03	-1.558792E-01	-9.712119E-02	0.0	0.0	0.0
		-6.135333E-03	3.398407E-02	5.023858E-03	0.0	0.0	0.0
1006	G	2.817635E-02	-1.051403E-02	2.136952E-03	0.0	-1.400571E-03	3.595678E-03
		-1.853973E-02	-1.078961E-02	-2.153148E-03	0.0	-1.768165E-04	-4.320404E-04
1007	G	3.209637E-02	1.488599E-01	4.107486E-02	0.0	0.0	0.0
		-2.008527E-02	-2.423808E-02	2.819087E-02	0.0	0.0	0.0
1012	G	3.185161E-01	-1.687491E-02	-3.289352E-01	-8.860336E-03	-1.782473E-04	-1.272162E-02
		-7.398732E-02	3.322956E-02	1.852264E-02	1.312866E-03	9.185450E-04	3.030164E-03
1013	G	-2.392037E-01	-1.867508E-02	-1.700225E-01	3.115805E-03	-1.781838E-04	-1.113516E-02
		2.161003E-02	3.322931E-02	-8.161791E-03	-7.478843E-06	9.185045E-04	1.514703E-03
1017	G	-2.207461E-01	2.305150E-02	8.558487E-03	0.0	0.0	0.0
		1.699342E-02	-1.734713E-02	3.499606E-02	0.0	0.0	0.0
1018	G	2.269298E-01	2.415085E-02	2.167896E-02	0.0	0.0	0.0
		-4.578408E-02	-1.804247E-02	-2.805551E-02	0.0	0.0	0.0
1021	G	-1.716186E-01	-6.278164E-02	2.161023E-02	2.230929E-03	-6.072086E-03	2.794623E-03
		1.706960E-01	4.221501E-02	-2.294086E-02	-2.451913E-03	6.275606E-03	-2.570216E-04
1022	G	4.349172E-02	1.630874E-02	2.255743E-02	-2.844445E-03	8.201468E-03	4.169318E-03
		-4.202877E-02	-1.304267E-02	-2.425468E-02	2.388026E-03	-8.242234E-03	-1.615570E-03
1023	G	-1.819831E-01	9.441835E-01	6.694442E-01	-1.445888E-04	2.362597E-02	-3.203429E-02
		-1.893773E-01	1.883352E-01	1.852199E-01	-2.593808E-03	4.133027E-03	-5.708187E-03
1024	G	3.097237E-03	1.000000E+00	-6.772352E-01	1.629296E-03	-2.278857E-02	-3.277764E-02
		2.409213E-01	0.0	4.126701E-02	-3.426755E-03	3.222923E-03	7.139888E-04
1025	G	-1.786142E-01	-2.357568E-01	3.540301E-01	-1.390981E-02	-5.980952E-03	-4.575817E-03
		-1.876806E-01	-2.424106E-01	1.443433E-01	-7.622621E-03	-3.921189E-04	-6.421115E-03
1026	G	3.800137E-04	-2.518919E-01	-3.292567E-01	-1.436502E-02	7.378717E-03	-4.038698E-03
		2.396181E-01	-2.922286E-01	-1.458456E-01	-8.924137E-03	-6.196800E-04	-8.361955E-03
1028	G	-1.088709E-01	2.246814E-01	-4.504408E-01	-4.755300E-02	-4.224189E-03	-7.219320E-03
		-1.055988E-01	-3.297794E-02	4.355082E-02	6.524442E-03	-5.557708E-04	5.780907E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.088592E+01, -1.740543E+02

C O M P L E X E I G E N V E C T O R NO. 22
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	9.624664E-02	-7.617266E-02	4.868152E-02	1.372473E-03	4.753413E-03	4.756244E-03
		-6.428509E-02	8.689521E-04	2.626691E-02	-4.761734E-04	-1.570238E-03	-5.619206E-04
2511	G	2.029303E-02	2.808170E-01	-4.517455E-02	1.756814E-03	1.857481E-03	-7.685955E-05
		-1.090228E-02	-3.209461E-02	6.126163E-02	-6.061812E-04	-1.209001E-04	5.457164E-04
2572	G	2.956273E-02	-4.020357E-02	-1.597419E-01	-2.394827E-03	-2.376157E-04	-5.391237E-03
		-2.723659E-02	3.531856E-02	-7.618405E-03	1.986916E-04	1.721352E-03	6.441965E-04
2649	G	4.249853E-02	-7.501285E-01	5.687973E-02	-1.225802E-02	-3.538400E-03	-1.077783E-02
		-1.008599E-02	8.216822E-02	-6.802774E-02	9.979009E-04	-1.066164E-03	7.283329E-04
2697	G	-2.406023E-01	2.341125E-01	1.247154E-01	-2.687330E-02	-7.130774E-03	-9.019703E-03
		-4.197073E-02	-3.474592E-02	-3.983150E-02	4.526401E-03	-1.279954E-03	2.979741E-03
19777	G	3.019715E-02	-1.230013E-02	1.109235E-03	9.515896E-04	-9.501801E-04	3.454751E-03
		-1.911051E-02	-1.008487E-02	-1.768298E-03	-3.563403E-04	-9.889752E-05	-3.670077E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.163284E-01, -1.802248E+02

C O M P L E X E I G E N V E C T O R NO. 23
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.027405E-03	1.089557E-03	2.640061E-03	0.0	0.0	0.0
		5.934629E-04	6.068961E-04	-6.317996E-03	0.0	0.0	0.0
1003	G	-1.985912E-03	-3.788225E-04	1.030902E-03	0.0	0.0	0.0
		4.815043E-04	3.112136E-04	-4.348551E-04	0.0	0.0	0.0
1004	G	-1.021202E-03	-1.124003E-03	-3.088847E-04	0.0	0.0	0.0
		-6.282165E-05	-4.750577E-05	2.944258E-03	0.0	0.0	0.0
1006	G	-2.148871E-03	3.668885E-04	-3.810654E-03	0.0	-4.784615E-05	3.235624E-05
		-2.225856E-04	-4.485082E-04	7.775560E-04	0.0	4.031014E-05	-5.755158E-06
1007	G	-2.195978E-03	1.517055E-03	-1.629715E-03	0.0	0.0	0.0
		-8.319939E-04	-1.374229E-04	-2.003736E-03	0.0	0.0	0.0
1012	G	-3.283765E-04	-1.243410E-03	-5.315037E-04	-1.628954E-05	4.446379E-05	-3.564082E-05
		-1.954245E-03	1.796240E-03	2.708909E-03	5.284728E-05	-3.012934E-05	5.004957E-05
1013	G	-4.678604E-03	-1.243370E-03	8.475678E-04	-2.743044E-05	4.446375E-05	-1.552805E-04
		-1.895214E-03	1.796229E-03	4.317920E-03	-1.251595E-04	-3.012733E-05	-5.072855E-05
1017	G	-3.380999E-03	6.378863E-04	-3.392691E-03	0.0	0.0	0.0
		-2.944452E-05	-4.210260E-04	-8.330547E-04	0.0	0.0	0.0
1018	G	4.891787E-04	5.787324E-04	-2.703405E-03	0.0	0.0	0.0
		-1.441214E-04	-4.197389E-04	9.472905E-04	0.0	0.0	0.0
1021	G	-1.332667E-02	2.758853E-04	-3.439107E-03	1.820576E-05	-3.490681E-04	2.337912E-05
		3.702105E-03	7.160897E-04	2.154742E-04	-4.672592E-05	1.402662E-04	-6.091162E-06
1022	G	2.736792E-03	-2.356807E-05	-3.629884E-03	5.770788E-05	5.409654E-04	7.315680E-05
		-9.811490E-04	-2.425025E-04	2.278158E-04	4.367727E-05	-1.858994E-04	-3.451685E-05
1023	G	2.525639E-01	8.806843E-01	1.000000E+00	1.881581E-03	3.261281E-02	-2.804274E-02
		1.844072E-03	4.724367E-04	0.0	8.635336E-05	-3.259285E-05	1.879879E-06
1024	G	2.482804E-01	-8.552425E-01	9.788361E-01	-1.864352E-03	3.187816E-02	2.818823E-02
		3.754451E-03	-4.721324E-03	4.637808E-03	2.241632E-05	1.311555E-04	1.335636E-04
1025	G	2.541602E-01	9.013634E-02	3.232625E-02	1.070395E-03	-5.201531E-03	5.630423E-03
		2.148709E-03	3.140674E-03	-4.186899E-03	1.579659E-04	7.650990E-05	9.093733E-05
1026	G	2.498291E-01	-9.332764E-02	2.447894E-02	-1.331802E-03	-4.948430E-03	-5.615255E-03
		4.050828E-03	3.229821E-03	3.787357E-03	1.671209E-04	-1.513389E-04	4.452080E-05
1028	G	-1.413540E-02	2.580748E-04	-9.457389E-04	1.341971E-04	-2.286878E-05	9.787017E-04
		1.023570E-02	8.457805E-05	-3.934015E-03	-4.082920E-04	4.847107E-05	-7.122331E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.183284E-01, -1.802248E+02

C O M P L E X E I G E N V E C T O R NO. 23
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-6.433206E-03	-1.728232E-03	-1.624225E-03	-2.161973E-05	-6.672774E-05	3.530414E-05
		-1.892545E-03	-2.524902E-04	-2.012764E-03	-3.148086E-05	-7.496998E-06	4.776718E-06
2511	G	-1.826005E-03	2.259387E-03	1.672610E-03	-5.996628E-06	-2.089633E-05	-1.543595E-05
		-7.830357E-04	2.934619E-04	-1.115658E-03	-1.383195E-05	-1.550403E-05	2.181869E-06
2572	G	-2.103651E-03	-1.415793E-03	5.984494E-05	-2.696714E-05	5.748739E-05	-3.961230E-05
		-8.427720E-04	1.578528E-03	2.187681E-03	-1.112215E-05	-5.129962E-06	3.009723E-06
2649	G	-1.358820E-03	-4.715570E-03	-4.157414E-03	-6.826227E-05	9.683447E-05	-2.599705E-05
		-1.323016E-03	4.878986E-04	3.294867E-03	-2.852884E-06	-4.331507E-05	-3.812148E-05
2697	G	-3.883303E-03	1.136363E-04	-2.764280E-03	1.482418E-04	-6.401593E-05	3.578156E-04
		2.343236E-03	1.023442E-04	8.107130E-04	-2.076594E-04	5.314653E-05	-3.223148E-04
19777	G	-1.997080E-03	4.327632E-04	-3.883052E-03	-2.555724E-05	5.413999E-05	5.031412E-05
		-1.546942E-04	-4.212939E-04	7.956280E-04	-1.673335E-05	3.948541E-05	-2.931789E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -9.500438E+00, -1.877942E+02

C O M P L E X E I G E N V E C T O R NO. 24
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-7.253062E-02	3.723782E-01	-2.368620E-01	0.0	0.0	0.0
		3.988068E-02	3.920957E-02	-2.878586E-01	0.0	0.0	0.0
1003	G	-8.386898E-02	2.866696E-02	3.851139E-02	0.0	0.0	0.0
		3.287866E-02	6.233837E-03	4.604422E-03	0.0	0.0	0.0
1004	G	-6.960026E-02	-2.134987E-01	2.521182E-02	0.0	0.0	0.0
		-4.153995E-03	-1.266942E-02	1.273110E-01	0.0	0.0	0.0
1006	G	-5.985199E-02	-6.661727E-02	3.816814E-02	0.0	-2.084235E-03	4.493775E-03
		-4.471525E-02	-2.451744E-02	-1.475913E-02	0.0	-2.347577E-04	6.732663E-04
1007	G	-7.017358E-02	1.642150E-01	7.958627E-02	0.0	0.0	0.0
		-7.848148E-02	3.081752E-02	4.028294E-02	0.0	0.0	0.0
1012	G	2.178750E-01	3.138713E-02	-4.148153E-01	-1.334162E-02	1.221790E-03	-1.170013E-02
		-4.487488E-02	3.118763E-02	-3.986386E-02	-9.153471E-04	2.559014E-03	8.478983E-05
1013	G	-4.791754E-01	3.138776E-02	-1.035414E-01	8.165955E-04	1.222038E-03	-1.834825E-02
		-1.657998E-01	3.118804E-02	6.877880E-02	-2.880642E-03	2.559045E-03	-4.872005E-03
1017	G	-3.652318E-01	-1.941796E-02	7.895917E-02	0.0	0.0	0.0
		-8.664249E-02	-1.566552E-02	-7.435218E-03	0.0	0.0	0.0
1018	G	2.283517E-01	-1.874694E-02	2.260768E-02	0.0	0.0	0.0
		2.921190E-02	-1.780744E-02	-2.176057E-02	0.0	0.0	0.0
1021	G	5.766954E-01	5.515231E-02	-4.319212E-02	-5.930979E-03	2.199834E-02	3.980205E-03
		4.581979E-01	6.174418E-02	-7.276778E-02	-3.940583E-03	1.577307E-02	8.437014E-04
1022	G	-1.442822E-01	-2.320589E-02	-4.623202E-02	4.345531E-03	-2.855441E-02	2.551254E-05
		-1.128054E-01	-1.965347E-02	-7.885035E-02	3.523881E-03	-2.174110E-02	-2.272565E-03
1023	G	9.637792E-02	1.000000E+00	8.465054E-01	4.820379E-03	2.958286E-02	-3.527540E-02
		-1.767861E-01	0.0	-1.334709E-01	1.594825E-03	-6.876278E-03	1.186428E-03
1024	G	8.167209E-02	6.672132E-01	-4.251283E-01	1.950526E-03	-1.616983E-02	-2.477268E-02
		3.179023E-01	3.095282E-02	3.224247E-02	-1.285231E-03	1.571950E-03	-1.642978E-03
1025	G	9.932674E-02	5.063216E-02	1.789413E-01	-2.348212E-03	-5.914815E-03	5.582728E-03
		-1.755642E-01	-7.000806E-02	-3.858883E-02	-7.000584E-04	4.593919E-03	-3.055119E-03
1026	G	7.905521E-02	-1.402388E-01	-1.897188E-01	-7.845839E-03	1.672303E-03	-1.580389E-03
		3.158568E-01	-1.075503E-01	-1.291430E-02	-2.522604E-03	-4.558546E-03	-4.245256E-03
1028	G	-4.431159E-01	1.863008E-01	-5.443584E-01	-5.111416E-02	-4.729526E-03	1.301138E-02
		-5.475677E-01	-7.238559E-04	-7.077882E-02	1.247486E-03	-2.095168E-03	3.323327E-02

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -9.500438E+00, -1.877942E+02

C O M P L E X E I G E N V E C T O R NO. 24
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-1.376209E-01	-8.055024E-02	9.280145E-02	-6.568836E-04	2.196536E-03	5.307521E-03
		-2.574575E-01	-4.459824E-02	3.803726E-02	-1.849338E-03	-3.290328E-03	1.071406E-03
2511	G	-7.605089E-02	3.336469E-01	6.146780E-02	7.292881E-04	1.821873E-03	-4.085400E-04
		-6.332314E-02	7.611481E-02	1.614047E-01	-1.473002E-03	-2.234872E-04	1.127091E-04
2572	G	-8.361421E-02	-7.848373E-03	-1.535554E-01	-3.709941E-03	1.526067E-03	-5.976284E-03
		-1.017116E-01	1.525248E-02	-3.463576E-03	-1.707858E-03	4.736716E-03	-1.361617E-03
2649	G	-5.468100E-02	-8.088802E-01	-4.957742E-02	-1.368087E-02	3.619710E-03	-1.201062E-02
		-5.862847E-02	-1.844119E-01	-1.837891E-01	-3.755224E-03	5.801049E-03	-2.514207E-03
2697	G	-3.778589E-01	1.848452E-01	4.322884E-02	-2.400673E-02	-6.980910E-03	-3.364247E-03
		-2.115424E-01	-5.776152E-03	-1.007034E-01	4.592135E-03	-5.127948E-03	1.147607E-02
19777	G	-5.417817E-02	-6.531613E-02	3.894706E-02	-7.212191E-04	9.413727E-05	5.086643E-03
		-4.116026E-02	-2.191698E-02	-1.333052E-02	-1.322783E-03	1.260840E-03	1.190261E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.222372E+00, -2.011526E+02

C O M P L E X E I G E N V E C T O R NO. 25
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-7.701222E-03	4.166251E-02	3.485427E-02	0.0	0.0	0.0
		-9.484904E-03	-5.973199E-04	2.965992E-02	0.0	0.0	0.0
1003	G	-7.248889E-03	5.517263E-03	-3.889741E-03	0.0	0.0	0.0
		-7.593356E-03	2.167315E-03	-1.554616E-02	0.0	0.0	0.0
1004	G	-2.174227E-03	-2.373127E-02	-2.350282E-02	0.0	0.0	0.0
		-2.507756E-03	3.038158E-03	-1.361848E-02	0.0	0.0	0.0
1006	G	1.834719E-03	-2.709915E-02	-7.212757E-03	0.0	-2.727028E-04	6.486377E-04
		-1.320063E-04	-1.337378E-02	6.092962E-04	0.0	3.314170E-05	-9.853561E-05
1007	G	3.145747E-03	2.139868E-03	1.128567E-03	0.0	0.0	0.0
		2.359514E-03	-1.850066E-02	-2.301596E-03	0.0	0.0	0.0
1012	G	2.522831E-02	1.183706E-02	-6.147770E-04	3.053579E-04	-5.238437E-05	-1.086499E-03
		-2.292194E-02	5.362571E-03	2.136376E-02	9.015820E-04	-1.229434E-04	1.098674E-03
1013	G	-1.555471E-02	1.183678E-02	-3.687121E-02	1.440582E-03	-5.244082E-05	-8.200148E-04
		2.764136E-02	5.362446E-03	-2.252480E-02	9.698637E-04	-1.229884E-04	1.214869E-03
1017	G	-2.364658E-02	-2.578048E-02	9.788832E-02	0.0	0.0	0.0
		1.371819E-02	-1.692657E-02	4.895463E-02	0.0	0.0	0.0
1018	G	2.994863E-02	-2.515099E-02	-9.175358E-02	0.0	0.0	0.0
		-1.263759E-02	-1.665557E-02	-4.131336E-02	0.0	0.0	0.0
1021	G	-2.086383E-02	8.225582E-02	5.948359E-03	-4.764152E-03	-7.871159E-04	7.257319E-04
		5.157104E-04	4.390063E-02	5.744984E-03	-2.528110E-03	1.117821E-04	1.991884E-05
1022	G	6.354285E-03	-2.628668E-02	6.364101E-03	4.882571E-03	1.268188E-03	-3.137830E-04
		3.684310E-04	-1.399240E-02	6.138853E-03	2.841257E-03	5.896887E-05	-5.934546E-04
1023	G	-6.918653E-01	-8.178806E-01	-9.778027E-01	-2.912817E-03	-3.435849E-02	2.852451E-02
		5.389525E-03	-2.624842E-02	1.821219E-02	-6.339975E-04	7.736021E-04	6.824706E-04
1024	G	6.897297E-01	-8.268342E-01	1.000000E+00	-2.653905E-03	3.541645E-02	2.906240E-02
		-4.509557E-03	-3.490143E-02	0.0	-4.908214E-04	7.980010E-05	1.116757E-03
1025	G	-6.918565E-01	-2.504839E-01	-5.309228E-02	-5.485795E-03	1.149228E-02	-1.393679E-02
		6.279265E-03	-2.151365E-02	9.110609E-03	-5.198557E-04	-4.873785E-04	-5.218725E-04
1026	G	6.895875E-01	-2.648832E-01	5.688102E-02	-5.538259E-03	-1.168268E-02	-1.409773E-02
		-4.333725E-03	-2.571868E-02	-6.003323E-03	-6.167978E-04	2.520768E-04	-7.319368E-04
1028	G	1.952478E-02	1.638482E-02	-4.878579E-02	-5.456456E-03	-3.120843E-04	-2.774530E-03
		6.090279E-02	-6.554498E-03	9.078280E-03	2.645859E-04	1.178418E-04	-4.621005E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.222372E+00, -2.011526E+02

C O M P L E X E I G E N V E C T O R NO. 25
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	5.723573E-03	5.140485E-03	7.656077E-05	2.848729E-04	-1.851832E-04	1.808999E-05
		7.130864E-03	9.890931E-03	-3.172935E-03	1.608091E-04	-3.525221E-04	-5.177840E-04
2511	G	4.123052E-03	1.872172E-02	-8.834543E-03	4.181880E-04	1.397240E-04	2.279832E-04
		3.064219E-03	-2.433854E-02	-9.186468E-03	1.767340E-04	-2.915587E-05	1.223363E-04
2572	G	3.053483E-03	1.505955E-02	-9.960060E-03	1.882247E-04	2.429113E-05	-2.975440E-04
		2.776824E-03	1.008641E-02	-3.816755E-04	4.420108E-04	-8.248568E-05	3.868241E-04
2649	G	3.937288E-03	-4.381814E-02	1.054532E-02	-6.315796E-04	-5.670879E-04	-9.341942E-04
		9.867614E-04	4.648003E-02	1.088192E-02	8.249744E-04	-7.141766E-04	4.578477E-04
2697	G	-1.571686E-02	1.585002E-02	1.389378E-02	-2.533423E-03	-6.578386E-04	-1.698917E-03
		1.386822E-02	-6.203235E-03	5.776102E-03	1.301010E-05	2.214503E-04	-1.433741E-03
19777	G	2.274300E-03	-2.820722E-02	-8.021271E-03	7.486244E-04	-1.306846E-04	6.248267E-04
		-5.068706E-04	-1.389828E-02	2.457462E-04	3.366203E-04	-1.198141E-04	-1.474064E-04

AH-1G THREE-DIMENSIONAL BUILTUP DYNAMICS MODEL W/ CONTROLS MODELED DIFFICULT COMPONENTS GVT CONFIGURATION #1 (FULL-UP) OCTOBER 26, 1990 MSC/NASTRAN 10/15/87 PAGE 139

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.018945E+00, -2.041893E+02

C O M P L E X E I G E N V E C T O R NO. 26
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-3.222492E-02	1.053244E-01	7.532798E-02	0.0	0.0	0.0
		-2.369398E-03	-3.977431E-02	-2.997128E-02	0.0	0.0	0.0
1003	G	-2.984723E-02	1.285782E-02	-2.383126E-02	0.0	0.0	0.0
		-1.991728E-03	-1.076603E-02	6.271925E-04	0.0	0.0	0.0
1004	G	-1.330997E-02	-5.460837E-02	-5.762319E-02	0.0	0.0	0.0
		-1.397305E-03	1.868560E-02	2.082227E-02	0.0	0.0	0.0
1006	G	-9.867978E-04	-9.539800E-02	-1.133691E-02	0.0	-2.538889E-04	6.689998E-04
		-4.480325E-03	5.103737E-02	1.618319E-02	0.0	1.049363E-04	-2.736819E-04
1007	G	6.749588E-03	-6.894219E-02	-2.202638E-02	0.0	0.0	0.0
		-6.127468E-03	3.400154E-02	1.255479E-02	0.0	0.0	0.0
1012	G	-7.089150E-02	-3.186709E-02	1.932915E-01	8.370277E-03	-5.727240E-04	3.333218E-03
		1.503206E-02	-7.884417E-03	-8.119403E-02	-3.545186E-03	1.425222E-04	-8.805826E-04
1013	G	8.043501E-02	-3.188852E-02	-1.410098E-01	6.745605E-03	-5.731498E-04	3.595527E-03
		-4.163596E-02	-7.884133E-03	5.458007E-02	-2.672384E-03	1.427027E-04	-1.722538E-03
1017	G	7.363891E-03	-1.063194E-01	3.644769E-01	0.0	0.0	0.0
		-1.867585E-02	5.828448E-02	-1.775324E-01	0.0	0.0	0.0
1018	G	2.930468E-03	-1.046152E-01	-3.328368E-01	0.0	0.0	0.0
		-3.319767E-04	5.752981E-02	1.793798E-01	0.0	0.0	0.0
1021	G	-1.732407E-02	2.688194E-01	2.858457E-02	-1.628697E-02	-3.917630E-04	1.284512E-03
		5.931324E-02	-1.278156E-01	-1.077840E-02	7.928602E-03	2.288405E-03	-5.352197E-04
1022	G	7.585088E-03	-8.753703E-02	3.061535E-02	1.664050E-02	1.504830E-03	-2.501750E-03
		-1.847179E-02	4.221028E-02	-1.158925E-02	-8.069454E-03	-3.314456E-03	1.051508E-03
1023	G	5.290224E-01	6.718097E-01	1.000000E+00	-1.895813E-03	3.612476E-02	-2.537191E-02
		3.675775E-02	6.574186E-02	0.0	1.779633E-03	-3.473165E-04	-1.679469E-03
1024	G	-5.352190E-01	6.841451E-01	-9.938848E-01	-1.351851E-03	-3.512128E-02	-2.530928E-02
		-2.163807E-02	3.619880E-02	3.611565E-02	1.459187E-03	1.365928E-03	-7.940446E-04
1025	G	5.298068E-01	-5.655151E-02	2.283919E-01	-5.398958E-03	-1.476899E-02	4.883882E-03
		3.682822E-02	1.154348E-01	-5.187610E-02	3.844727E-03	1.105995E-03	3.343587E-03
1026	G	-5.358383E-01	-6.278019E-02	-2.200057E-01	-5.426239E-03	1.407772E-02	4.614661E-03
		-2.167603E-02	9.888820E-02	5.317344E-02	3.361028E-03	-1.356580E-03	2.806161E-03
1028	G	1.244952E-01	-6.715324E-03	5.772870E-02	4.900075E-03	1.087035E-03	-6.771270E-03
		-8.892902E-02	-1.849466E-04	1.137002E-03	8.245154E-04	-1.334077E-04	5.030880E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.018945E+00, -2.041893E+02

C O M P L E X E I G E N V E C T O R NO. 26
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	1.623570E-02	4.678627E-02	-2.718620E-02	1.443554E-03	-2.051434E-03	-2.241325E-03
		-3.763935E-03	-2.583557E-02	1.573698E-02	-5.972509E-04	1.383303E-03	1.093302E-03
2511	G	3.725432E-03	-7.581076E-02	-6.397866E-02	1.981820E-03	-1.525263E-04	-2.474631E-04
		-1.060500E-02	2.935810E-02	1.910831E-02	-6.564759E-04	1.011252E-04	-4.760885E-04
2572	G	9.817129E-03	3.158329E-03	1.411658E-02	2.599163E-03	-7.087014E-04	1.157984E-03
		-7.652565E-03	-2.099365E-02	-6.736397E-03	-1.018957E-03	1.231303E-05	-4.312101E-04
2649	G	-4.876182E-04	1.351307E-01	3.663852E-02	3.409874E-03	-1.439728E-03	2.152316E-03
		-7.120167E-03	-4.403074E-02	-1.424028E-02	-1.007617E-03	1.501204E-03	-3.049504E-04
2697	G	6.637869E-02	-6.332915E-03	4.713053E-03	1.453194E-03	2.017707E-03	-1.008151E-03
		-1.825127E-02	4.053239E-05	-8.247482E-03	3.641803E-04	-7.565025E-05	1.587308E-03
19777	G	-8.858224E-04	-9.977400E-02	-1.432948E-02	2.770895E-03	-2.969873E-04	5.884745E-04
		-4.693504E-03	5.312454E-02	1.768514E-02	-1.390695E-03	2.879168E-05	-2.361148E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.190737E+01, -2.249127E+02

C O M P L E X E I G E N V E C T O R NO. 27
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-1.743801E-01	-9.334811E-03	4.540230E-01	0.0	0.0	0.0
		-1.694476E-03	-1.822033E-02	-8.579192E-02	0.0	0.0	0.0
1003	G	-1.506294E-01	2.092362E-02	-1.578242E-01	0.0	0.0	0.0
		-1.759524E-03	7.303764E-03	-5.474717E-03	0.0	0.0	0.0
1004	G	-7.243070E-02	2.983674E-02	-2.180584E-01	0.0	0.0	0.0
		7.639653E-03	1.359013E-02	4.589415E-02	0.0	0.0	0.0
1006	G	-2.287961E-02	-5.872228E-03	7.355181E-02	0.0	-8.398544E-04	-8.231489E-04
		-2.695065E-03	-1.131813E-03	-3.971093E-04	0.0	1.854315E-04	-2.168857E-04
1007	G	1.096135E-02	-4.305369E-02	1.011844E-01	0.0	0.0	0.0
		4.580766E-03	1.055845E-03	1.756745E-03	0.0	0.0	0.0
1012	G	-3.814843E-02	1.525672E-01	-6.741623E-01	-2.705368E-02	-1.278321E-03	1.812294E-03
		5.869018E-02	5.602207E-02	-5.136133E-02	7.167800E-05	4.007016E-04	-2.600707E-03
1013	G	3.285508E-02	1.525834E-01	-3.897852E-01	1.194578E-02	-1.278742E-03	1.537976E-03
		-3.742134E-03	5.802110E-02	1.219647E-01	-7.857650E-03	4.009174E-04	-2.876530E-04
1017	G	-6.383263E-03	-9.301358E-03	-7.545211E-02	0.0	0.0	0.0
		2.677812E-02	-5.986611E-03	-1.648449E-02	0.0	0.0	0.0
1018	G	-1.250302E-01	-1.059625E-02	2.024114E-01	0.0	0.0	0.0
		2.543176E-03	-1.225136E-03	5.036400E-02	0.0	0.0	0.0
1021	G	1.721291E-01	-2.022304E-02	4.068385E-02	3.756310E-04	8.437287E-03	-5.387477E-04
		7.405064E-02	-1.712888E-02	-1.980810E-02	7.587060E-04	2.811273E-03	-3.436439E-04
1022	G	-4.282948E-02	4.482084E-03	4.388685E-02	-9.204243E-04	-9.212391E-03	-1.438018E-03
		-1.962562E-02	4.931232E-03	-2.229587E-02	-9.634054E-04	-3.853481E-03	-5.023288E-04
1023	G	6.731429E-02	9.080103E-02	3.231055E-01	-9.702851E-04	1.405643E-02	-4.681720E-03
		8.305595E-02	9.543526E-02	1.015168E-01	1.662184E-03	2.702481E-03	-3.023222E-03
1024	G	-6.124326E-02	-1.359841E-01	1.583970E-01	1.511907E-03	7.217924E-03	6.857414E-03
		-6.940848E-02	1.557899E-02	-3.812311E-02	5.875835E-04	-1.816507E-03	-1.184018E-03
1025	G	6.793858E-02	1.886715E-01	-2.327688E-02	7.112582E-03	-1.880234E-03	5.482870E-03
		8.304677E-02	8.311010E-02	-7.017185E-02	3.603620E-03	1.092888E-03	2.851484E-03
1026	G	-5.030070E-02	-4.185107E-02	1.384787E-01	2.018919E-03	-4.489432E-03	-1.981394E-03
		-6.911417E-02	7.398318E-02	4.273673E-02	3.107618E-03	-1.785789E-05	2.861169E-03
1028	G	1.000000E+00	7.253698E-02	-4.946347E-01	-6.824840E-02	-5.499849E-03	-1.088620E-01
		0.0	3.311127E-03	-5.050847E-02	-3.972242E-03	-9.938583E-04	-1.188569E-03

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.190737E+01, -2.249127E+02

C O M P L E X E I G E N V E C T O R NO. 27
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	2.264162E-01	3.278990E-02	1.031872E-01	9.672698E-04	4.193725E-03	1.337898E-04
		-7.280937E-02	-1.141710E-02	2.683950E-03	-1.090727E-03	-1.466342E-03	1.494477E-04
2511	G	1.295535E-02	-3.821158E-02	-5.979332E-02	1.589957E-04	1.827314E-03	8.839252E-04
		1.530903E-02	1.705014E-02	5.137721E-02	-1.336431E-03	1.856618E-04	1.748189E-03
2572	G	1.527551E-02	1.289273E-01	-2.354095E-01	-4.473363E-04	-8.983945E-04	5.757074E-04
		4.518810E-03	3.499523E-02	-3.612935E-02	-1.289208E-03	5.421441E-04	-4.763455E-04
2649	G	7.735196E-03	4.976830E-03	1.901452E-01	-1.862621E-03	-3.637526E-03	-4.580001E-03
		1.545601E-02	-7.938206E-02	-1.332334E-02	-2.211783E-03	-5.228986E-03	-2.110835E-03
2697	G	-2.064455E-01	8.774601E-02	2.727487E-01	-3.201292E-02	-9.824078E-03	-4.437141E-02
		-2.741625E-02	1.370860E-02	-2.310761E-03	-4.226292E-03	-1.289072E-03	-1.730141E-03
19777	G	-3.004055E-02	-4.972294E-03	7.435987E-02	-7.481971E-04	-3.100695E-03	-1.462677E-03
		-1.931467E-03	5.563999E-04	5.790206E-04	-9.038240E-04	4.753934E-04	-8.528760E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.746958E+01, -2.478996E+02

C O M P L E X E I G E N V E C T O R NO. 28
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-4.403485E-02	5.127575E-02	-2.188185E-02	0.0	0.0	0.0
		-5.177730E-02	5.142360E-02	2.849184E-02	0.0	0.0	0.0
1003	G	-4.572966E-02	-8.011765E-03	9.005034E-03	0.0	0.0	0.0
		-4.943295E-02	-4.515020E-03	-1.292128E-02	0.0	0.0	0.0
1004	G	-4.244688E-02	-4.209841E-02	-1.508432E-02	0.0	0.0	0.0
		-3.135659E-02	-3.372970E-02	-2.843319E-02	0.0	0.0	0.0
1006	G	-2.485534E-02	1.457506E-02	1.124536E-02	0.0	-7.288965E-04	1.035907E-03
		-8.940684E-03	1.085172E-02	2.163004E-02	0.0	-1.461588E-04	9.435874E-04
1007	G	-1.880442E-02	2.321711E-02	-2.024485E-02	0.0	0.0	0.0
		-3.835854E-03	3.786438E-02	-1.169884E-02	0.0	0.0	0.0
1012	G	-1.788368E-01	-1.494424E-01	1.000000E+00	4.537012E-02	-7.647456E-04	7.961887E-03
		1.952678E-02	-1.034299E-01	0.0	-6.251888E-03	-7.084747E-04	-2.334241E-03
1013	G	-7.477004E-02	-1.494350E-01	4.170821E-01	-1.629328E-02	-7.857500E-04	-2.960743E-03
		-6.118307E-02	-1.034277E-01	1.919038E-01	-4.873744E-03	-7.079943E-04	-2.405773E-03
1017	G	-1.211512E-01	3.384552E-02	-5.317232E-03	0.0	0.0	0.0
		-8.751447E-02	2.417017E-02	-1.938521E-02	0.0	0.0	0.0
1018	G	4.887058E-02	2.950011E-02	-3.004976E-03	0.0	0.0	0.0
		4.858314E-02	2.446196E-02	5.039538E-02	0.0	0.0	0.0
1021	G	2.015305E-02	-4.307317E-03	6.733518E-03	7.608651E-04	1.796064E-03	9.774600E-04
		5.206848E-02	-1.545756E-02	1.316773E-02	1.157977E-03	2.856713E-03	7.838702E-04
1022	G	-7.325644E-03	2.888797E-03	7.812752E-03	-8.035890E-04	-1.603783E-03	9.542798E-04
		-1.367746E-02	5.766930E-03	1.439840E-02	-1.141759E-03	-2.858280E-03	7.813198E-04
1023	G	-2.186855E-03	1.784396E-02	1.825280E-02	-5.678292E-05	1.227251E-03	-1.131145E-03
		-2.149343E-02	3.361527E-02	2.821400E-02	3.557562E-05	1.514934E-03	-1.847950E-03
1024	G	3.278852E-02	4.611718E-03	1.937825E-02	1.091338E-04	6.693220E-04	-2.902686E-04
		5.269721E-02	-7.467835E-03	5.480347E-02	3.094040E-04	2.038991E-03	2.851583E-04
1025	G	-2.157988E-03	1.129639E-02	5.605898E-02	-1.380188E-03	-2.530405E-03	8.605397E-04
		-2.117123E-02	1.334204E-02	3.752819E-02	-6.014175E-04	-1.124246E-03	6.005293E-04
1026	G	3.259203E-02	6.848309E-03	-4.503397E-02	-1.285420E-03	9.019306E-04	6.804798E-05
		5.244331E-02	-1.235740E-02	-1.933773E-02	-1.071852E-03	-6.763358E-04	-8.329204E-04
1028	G	-4.912008E-01	-5.978214E-02	5.226314E-01	6.958451E-02	7.831980E-03	7.182340E-02
		-3.058299E-01	-3.589488E-02	2.584512E-01	3.188443E-02	4.450060E-03	4.182407E-02

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.746958E+01, -2.478996E+02

C O M P L E X E I G E N V E C T O R NO. 28
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	1.898429E-01	1.754707E-02	-1.528666E-02	1.762857E-03	4.277071E-03	4.391909E-04
		8.679875E-02	2.381778E-03	-7.017431E-03	5.722476E-04	2.855971E-03	8.686146E-04
2511	G	-4.458965E-02	-1.861231E-02	-7.867940E-02	1.716394E-03	-1.081838E-03	-2.626896E-03
		-3.067631E-02	2.171381E-02	-4.580180E-02	6.942398E-04	-3.859830E-04	-2.330043E-03
2572	G	-3.228211E-02	-1.032929E-01	2.279851E-01	2.723948E-03	4.130790E-05	5.375501E-04
		-9.618230E-03	-9.825794E-02	1.213821E-01	-2.921005E-04	-1.898283E-03	-3.192987E-05
2649	G	-5.607889E-02	1.296482E-01	-2.262119E-02	4.906888E-03	-2.766755E-03	5.638848E-03
		-4.148236E-02	6.258547E-02	-2.360408E-03	2.038452E-03	1.092597E-02	3.564684E-03
2697	G	3.378830E-01	-6.600005E-02	-2.223805E-01	2.489632E-02	1.489770E-02	3.164595E-02
		1.722126E-01	-4.893982E-02	-9.640332E-02	1.520781E-02	8.437937E-03	1.714987E-02
19777	G	-2.364686E-02	1.372306E-02	1.083507E-02	3.788953E-04	-4.522586E-05	1.194342E-03
		-8.301327E-03	1.030179E-02	2.153719E-02	8.597117E-05	-1.685744E-04	8.729545E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.500951E-03, 1.678272E-02

C O M P L E X E I G E N V E C T O R NO. 29
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	5.528919E-02	6.212157E-02	1.000000E+00	0.0	0.0	0.0
		-4.285988E-03	-5.340506E-02	0.0	0.0	0.0	0.0
1003	G	5.477598E-02	3.613957E-02	8.810173E-01	0.0	0.0	0.0
		-3.845672E-03	-3.115798E-02	-8.424708E-02	0.0	0.0	0.0
1004	G	5.477348E-02	1.089732E-02	7.854816E-01	0.0	0.0	0.0
		-3.845181E-03	-9.528050E-03	-1.664315E-01	0.0	0.0	0.0
1006	G	9.885253E-02	-2.964537E-02	6.520486E-01	0.0	2.309374E-03	-5.530108E-04
		2.867333E-02	2.339458E-02	-2.717015E-01	0.0	1.798387E-03	4.734527E-04
1007	G	1.020393E-01	-5.875598E-02	5.329599E-01	0.0	0.0	0.0
		2.391643E-02	4.837375E-02	-3.694758E-01	0.0	0.0	0.0
1012	G	1.004752E-01	-1.387899E-01	1.974611E-01	4.487632E-04	2.309665E-03	-5.530407E-04
		-5.653773E-03	1.176710E-01	-6.506243E-01	-2.881553E-04	1.798348E-03	4.734593E-04
1013	G	6.591021E-02	-1.387899E-01	1.894134E-01	4.487630E-04	2.309665E-03	-5.530407E-04
		2.403743E-02	1.176710E-01	-6.326146E-01	-2.881550E-04	1.798348E-03	4.734593E-04
1017	G	1.343914E-01	-3.328924E-02	6.655923E-01	0.0	0.0	0.0
		-4.233342E-03	2.657915E-02	-3.038254E-01	0.0	0.0	0.0
1018	G	6.913479E-02	-3.328832E-02	6.128380E-01	0.0	0.0	0.0
		5.163430E-02	2.657902E-02	-2.698232E-01	0.0	0.0	0.0
1021	G	1.532555E-01	-4.106198E-02	6.484430E-01	4.487850E-04	2.309598E-03	-5.530085E-04
		6.380528E-02	3.109213E-02	-2.795586E-01	-2.881558E-04	1.798355E-03	4.734469E-04
1022	G	3.119713E-01	-7.190121E-02	6.484430E-01	4.487869E-04	2.309603E-03	-5.530084E-04
		1.873883E-01	5.089422E-02	-2.795586E-01	-2.881562E-04	1.798358E-03	4.734471E-04
1023	G	-5.107142E-02	4.400428E-02	8.378265E-01	4.487823E-04	2.308989E-03	-5.530009E-04
		-5.914957E-02	-3.415946E-02	-1.085300E-01	-2.881609E-04	1.798442E-03	4.734549E-04
1024	G	-6.830693E-03	4.400586E-02	8.737270E-01	4.487628E-04	2.308977E-03	-5.530249E-04
		-9.702589E-02	-3.415964E-02	-1.295834E-01	-2.881609E-04	1.798438E-03	4.734580E-04
1025	G	-5.107142E-02	-2.496544E-02	5.498478E-01	4.487519E-04	2.309009E-03	-5.530121E-04
		-5.914957E-02	2.488988E-02	-3.308319E-01	-2.881557E-04	1.798444E-03	4.734555E-04
1026	G	-6.830682E-03	-2.496628E-02	5.857470E-01	4.487530E-04	2.309063E-03	-5.529999E-04
		-9.702589E-02	2.488986E-02	-3.538838E-01	-2.881560E-04	1.798425E-03	4.734539E-04
1028	G	2.374491E-01	-2.327746E-01	-8.390063E-02	4.487831E-04	2.309866E-03	-5.530361E-04
		1.126325E-01	1.921431E-01	-8.815824E-01	-2.881561E-04	1.798349E-03	4.734633E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.500951E-03, 1.678272E-02

C O M P L E X E I G E N V E C T O R NO. 29
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	1.526909E-01	-6.749514E-02	5.375793E-01	4.487570E-04	2.309687E-03	-5.530396E-04
		6.335401E-02	5.374603E-02	-3.658791E-01	-2.881528E-04	1.798341E-03	4.734587E-04
2511	G	7.044873E-02	-8.140767E-02	4.127400E-01	4.486120E-04	2.309621E-03	-5.529725E-04
		1.231015E-02	6.874555E-02	-4.538175E-01	-2.881052E-04	1.798363E-03	4.734368E-04
2572	G	5.822277E-02	-1.339534E-01	1.817512E-01	4.487630E-04	2.309685E-03	-5.530407E-04
		-1.175748E-02	1.146519E-01	-6.429323E-01	-2.881552E-04	1.798348E-03	4.734593E-04
2649	G	6.032181E-02	-1.846670E-01	-1.048922E-02	4.487626E-04	2.309666E-03	-5.530406E-04
		7.006483E-03	1.579659E-01	-7.926142E-01	-2.881557E-04	1.798348E-03	4.734595E-04
2697	G	2.304172E-01	-2.330853E-01	-9.094625E-02	4.487633E-04	2.309666E-03	-5.530390E-04
		1.205556E-01	1.923693E-01	-8.575994E-01	-2.881555E-04	1.798349E-03	4.734608E-04
19777	G	1.025123E-01	-3.045314E-02	6.515639E-01	4.487650E-04	2.309443E-03	-5.530228E-04
		3.242173E-02	2.391325E-02	-2.713903E-01	-2.881544E-04	1.798375E-03	4.734545E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -5.868273E-03, 2.339853E-02

C O M P L E X E I G E N V E C T O R NO. 30
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	2.766048E-02	-2.818985E-01	4.636896E-02	0.0	0.0	0.0
		-1.155106E-03	-1.321079E-05	-1.365790E-02	0.0	0.0	0.0
1003	G	2.998890E-02	-1.643294E-01	4.414648E-02	0.0	0.0	0.0
		-1.152600E-03	1.154518E-04	-1.535081E-02	0.0	0.0	0.0
1004	G	2.998877E-02	-4.899457E-02	3.883372E-02	0.0	0.0	0.0
		-1.152590E-03	2.398034E-04	-1.698123E-02	0.0	0.0	0.0
1006	G	2.694586E-02	1.196543E-01	2.944945E-02	0.0	1.159932E-04	2.501963E-03
		-4.937493E-04	6.961788E-05	-1.902082E-02	0.0	3.587016E-05	2.739241E-06
1007	G	7.065183E-03	2.517858E-01	1.307088E-02	0.0	0.0	0.0
		-5.354510E-04	2.249154E-04	-2.077480E-02	0.0	0.0	0.0
1012	G	-7.206783E-02	6.198796E-01	-4.480402E-02	-1.290211E-03	1.160086E-04	2.501965E-03
		-9.120617E-04	7.834427E-04	-2.562008E-02	1.786210E-05	3.566546E-05	2.738130E-06
1013	G	8.430498E-02	6.198796E-01	3.583416E-02	-1.290211E-03	1.160086E-04	2.501965E-03
		-7.409285E-04	7.834427E-04	-2.672398E-02	1.765225E-05	3.566546E-05	2.738073E-06
1017	G	-1.405541E-01	1.366408E-01	-5.771972E-02	0.0	0.0	0.0
		-7.013984E-04	1.011906E-04	-1.809367E-02	0.0	0.0	0.0
1018	G	1.548668E-01	1.366408E-01	9.452554E-02	0.0	0.0	0.0
		-3.780865E-04	1.011731E-04	-2.017787E-02	0.0	0.0	0.0
1021	G	9.636422E-03	1.553044E-01	1.887134E-02	-1.290230E-03	1.160081E-04	2.501914E-03
		2.558016E-04	-3.037237E-04	-1.899152E-02	1.765702E-05	3.566742E-05	2.740688E-06
1022	G	1.760853E-02	2.439692E-01	1.887134E-02	-1.290235E-03	1.160088E-04	2.501915E-03
		2.706875E-03	-1.516994E-03	-1.899152E-02	1.765413E-05	3.566764E-05	2.741048E-06
1023	G	1.005634E-01	-1.711678E-01	8.089205E-02	-1.290221E-03	1.159476E-04	2.501950E-03
		-2.449389E-03	8.456848E-04	-1.849556E-02	1.768040E-05	3.566215E-05	2.724945E-06
1024	G	-9.859118E-02	-1.711677E-01	-2.232545E-02	-1.290221E-03	1.159655E-04	2.501946E-03
		-2.887913E-03	8.458553E-04	-1.507923E-02	1.768043E-05	3.566393E-05	2.725509E-06
1025	G	1.005634E-01	1.408750E-01	6.642894E-02	-1.290215E-03	1.159881E-04	2.501940E-03
		-2.449388E-03	1.185438E-03	-2.094370E-02	1.767242E-05	3.567148E-05	2.724188E-06
1026	G	-9.859118E-02	1.408750E-01	-3.678728E-02	-1.290215E-03	1.159395E-04	2.501942E-03
		-2.887915E-03	1.185432E-03	-1.953050E-02	1.767241E-05	3.566221E-05	2.723833E-06
1028	G	-3.290852E-02	9.989219E-01	-4.218555E-02	-1.290211E-03	1.160101E-04	2.501975E-03
		1.347407E-03	8.411521E-06	-3.010184E-02	1.765575E-05	3.566458E-05	2.703260E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -5.868273E-03, 2.339853E-02

C O M P L E X E I G E N V E C T O R NO. 30
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	9.609339E-03	2.750760E-01	1.330288E-02	-1.290209E-03	1.160130E-04	2.501985E-03
		2.466863E-04	-1.678950E-04	-2.070347E-02	1.766303E-05	3.586604E-05	2.739401E-06
2511	G	4.183086E-02	3.618194E-01	2.589668E-02	-1.290220E-03	1.160067E-04	2.501988E-03
		-8.612239E-04	5.406111E-04	-2.278537E-02	1.766617E-05	3.586685E-05	2.736602E-06
2572	G	4.763923E-03	6.086403E-01	-4.569617E-03	-1.290211E-03	1.160096E-04	2.501985E-03
		-1.242955E-03	9.916858E-04	-2.619807E-02	1.766292E-05	3.586574E-05	2.737916E-06
2649	G	5.974367E-03	8.283484E-01	-1.422545E-02	-1.290212E-03	1.160101E-04	2.501985E-03
		-8.708209E-04	1.035228E-03	-2.916661E-02	1.766436E-05	3.586516E-05	2.738543E-06
2697	G	4.229182E-03	1.000000E+00	-2.308445E-02	-1.290212E-03	1.160104E-04	2.501969E-03
		1.405574E-03	0.0	-3.036963E-02	1.765625E-05	3.586362E-05	2.724809E-06
19777	G	2.985674E-02	1.219766E-01	3.084289E-02	-1.290217E-03	1.159863E-04	2.501954E-03
		-4.265867E-04	3.782764E-05	-1.903990E-02	1.766103E-05	3.586881E-05	2.739513E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.092172E-02, 1.262680E-01

C O M P L E X E I G E N V E C T O R NO. 31
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	8.305505E-01	1.575657E-02	-5.414809E-01	0.0	0.0	0.0
		2.545260E-02	-1.527280E-03	1.034404E-02	0.0	0.0	0.0
1003	G	8.304237E-01	8.756902E-03	-3.886793E-01	0.0	0.0	0.0
		2.546931E-02	-6.693308E-04	9.147582E-03	0.0	0.0	0.0
1004	G	8.304191E-01	3.777387E-03	-2.403715E-01	0.0	0.0	0.0
		2.546901E-02	1.603580E-04	8.052854E-03	0.0	0.0	0.0
1006	G	7.702219E-01	-1.903277E-03	-5.091268E-02	0.0	-3.251556E-03	-1.271607E-04
		2.587807E-02	-2.348528E-04	6.843199E-03	0.0	2.379910E-05	1.826437E-05
1007	G	7.730515E-01	-8.724552E-03	1.208017E-01	0.0	0.0	0.0
		2.572008E-02	7.781706E-04	6.192345E-03	0.0	0.0	0.0
1012	G	8.035408E-01	-2.879403E-02	6.083300E-01	-9.280942E-05	-3.247474E-03	-1.276151E-04
		2.495460E-02	4.178151E-03	5.016978E-03	7.821926E-05	2.392155E-05	1.824841E-05
1013	G	7.855657E-01	-2.879403E-02	6.151312E-01	-9.282808E-05	-3.247474E-03	-1.275920E-04
		2.809527E-02	4.178151E-03	1.273943E-04	7.821583E-05	2.392155E-05	1.825280E-05
1017	G	7.809664E-01	-2.882149E-03	-3.388404E-02	0.0	0.0	0.0
		2.464042E-02	-5.152598E-05	1.190814E-02	0.0	0.0	0.0
1018	G	7.659409E-01	-2.869559E-03	-2.294437E-02	0.0	0.0	0.0
		2.679508E-02	-5.110621E-05	2.678170E-03	0.0	0.0	0.0
1021	G	7.008442E-01	-2.913796E-04	-4.157758E-02	-9.275595E-05	-3.248231E-03	-1.259388E-04
		2.624529E-02	-1.889423E-03	7.388563E-03	7.822855E-05	2.392706E-05	1.827874E-05
1022	G	4.776388E-01	6.081811E-03	-4.157758E-02	-9.274808E-05	-3.247918E-03	-1.259217E-04
		2.789170E-02	-7.245396E-03	7.388563E-03	7.823142E-05	2.397936E-05	1.828131E-05
1023	G	9.523512E-01	3.820384E-03	-3.305486E-01	-9.260429E-05	-3.257081E-03	-1.273103E-04
		2.509892E-02	2.885658E-03	6.372433E-03	7.826056E-05	2.359580E-05	1.823473E-05
1024	G	9.525428E-01	3.838310E-03	-3.378454E-01	-9.263367E-05	-3.257016E-03	-1.276338E-04
		2.363858E-02	2.686133E-03	1.263743E-02	7.825576E-05	2.366540E-05	1.822540E-05
1025	G	9.523512E-01	-1.206673E-02	7.565766E-02	-9.281945E-05	-3.256714E-03	-1.275025E-04
		2.509892E-02	4.939349E-03	3.427832E-03	7.823514E-05	2.363401E-05	1.822463E-05
1026	G	9.525430E-01	-1.206458E-02	6.821635E-02	-9.281013E-05	-3.256025E-03	-1.273397E-04
		2.363958E-02	4.939450E-03	9.885126E-03	7.823592E-05	2.367192E-05	1.823084E-05
1028	G	5.883994E-01	-3.823508E-02	9.880897E-01	-9.277141E-05	-3.247488E-03	-1.276180E-04
		2.657880E-02	1.478657E-03	1.163436E-03	7.823258E-05	2.392038E-05	1.827514E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -1.092172E-02, 1.262680E-01

C O M P L E X E I G E N V E C T O R NO. 31
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	7.018411E-01	-6.432327E-03	1.143073E-01	-8.284878E-05	-3.247234E-03	-1.275752E-04
		2.624501E-02	-9.735755E-04	6.240222E-03	7.821723E-05	2.393520E-05	1.825167E-05
2511	G	8.044678E-01	-1.596071E-02	2.820834E-01	-9.417643E-05	-3.247847E-03	-1.289900E-04
		2.573758E-02	2.477796E-03	3.888376E-03	7.817511E-05	2.391284E-05	1.826889E-05
2572	G	8.374739E-01	-2.997103E-02	6.146012E-01	-9.282036E-05	-3.247480E-03	-1.278033E-04
		2.524557E-02	5.104818E-03	2.554200E-03	7.821695E-05	2.392114E-05	1.825085E-05
2649	G	8.035898E-01	-3.962340E-02	8.848986E-01	-9.281364E-05	-3.247508E-03	-1.276037E-04
		2.549517E-02	5.807811E-03	5.832263E-04	7.821698E-05	2.392024E-05	1.825196E-05
2697	G	5.958714E-01	-3.821013E-02	1.000000E+00	-9.279518E-05	-3.247486E-03	-1.276058E-04
		2.696160E-02	1.442344E-03	0.0	7.822543E-05	2.392202E-05	1.826070E-05
19777	G	7.642332E-01	-1.736220E-03	-5.081253E-02	-9.273427E-05	-3.250651E-03	-1.273280E-04
		2.594068E-02	-3.756471E-04	6.758720E-03	7.822120E-05	2.392737E-05	1.826058E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -3.863643E-02, 1.481380E-01

C O M P L E X E I G E N V E C T O R NO. 32
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.915770E-02	2.649682E-01	1.038221E-01	0.0	0.0	0.0
		3.488442E-03	-3.200268E-03	-4.138030E-03	0.0	0.0	0.0
1003	G	-3.180984E-02	1.254905E-01	1.137123E-01	0.0	0.0	0.0
		3.577384E-03	1.390351E-03	-3.916514E-03	0.0	0.0	0.0
1004	G	-3.189574E-02	-1.001033E-02	1.131008E-01	0.0	0.0	0.0
		3.576538E-03	5.851672E-03	-3.600784E-03	0.0	0.0	0.0
1006	G	-2.555823E-02	2.113180E-02	8.966122E-02	0.0	1.084505E-05	-2.967318E-03
		3.247451E-03	9.488025E-03	-2.958906E-03	0.0	-6.874326E-06	9.771906E-05
1007	G	-2.054928E-03	-1.425376E-01	2.492526E-03	0.0	0.0	0.0
		2.476774E-03	1.473801E-02	-1.739086E-03	0.0	0.0	0.0
1012	G	9.058032E-02	-6.807743E-01	-3.408447E-01	-1.093543E-02	1.080152E-05	-2.967096E-03
		-5.204133E-04	3.040952E-02	2.714933E-03	1.094538E-04	-6.832539E-06	9.768869E-05
1013	G	-9.486324E-02	-6.807743E-01	3.426195E-01	-1.093543E-02	1.080152E-05	-2.967097E-03
		5.585475E-03	3.040952E-02	-4.125174E-03	1.094485E-04	-6.832541E-06	9.769113E-05
1017	G	1.730164E-01	-7.488490E-03	-6.422065E-01	0.0	0.0	0.0
		-3.289064E-03	1.026004E-02	4.382878E-03	0.0	0.0	0.0
1018	G	-1.771324E-01	-7.488456E-03	6.481647E-01	0.0	0.0	0.0
		8.244731E-03	1.026011E-02	-8.498703E-03	0.0	0.0	0.0
1021	G	-1.775234E-03	2.483739E-01	3.020867E-03	-1.093706E-02	1.036264E-05	-2.968389E-03
		2.325482E-03	7.434707E-03	-2.080590E-03	1.084542E-04	-6.826048E-06	9.770280E-05
1022	G	-1.064753E-03	1.000000E+00	3.020867E-03	-1.093782E-02	1.033215E-05	-2.968312E-03
		1.856173E-03	0.0	-2.080590E-03	1.080123E-04	-6.826843E-06	9.775475E-05
1023	G	-1.212700E-01	-3.484463E-01	4.418250E-01	-1.094044E-02	1.587291E-05	-2.963717E-03
		6.766621E-03	7.324000E-03	-7.108073E-03	1.097256E-04	-7.200118E-06	9.735891E-05
1024	G	1.159329E-01	-3.484471E-01	-4.338587E-01	-1.094044E-02	6.391845E-06	-2.963709E-03
		-1.036521E-03	7.323907E-03	1.714219E-03	1.097265E-04	-6.507494E-06	9.736218E-05
1025	G	-1.212707E-01	-7.180494E-01	4.400905E-01	-1.093805E-02	1.232973E-05	-2.963243E-03
		6.766656E-03	1.948300E-02	-6.215408E-03	1.095318E-04	-7.029931E-06	9.732848E-05
1026	G	1.159336E-01	-7.180494E-01	-4.348003E-01	-1.093805E-02	9.914943E-06	-2.963242E-03
		-1.036557E-03	1.948297E-02	2.532093E-03	1.095325E-04	-6.885687E-06	9.732464E-05
1028	G	5.338578E-02	-3.529320E-01	-2.025788E-01	-1.093574E-02	1.081639E-05	-2.967390E-03
		2.837889E-04	3.521988E-02	2.156806E-03	1.108328E-04	-6.898258E-06	9.876966E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -3.863843E-02, 1.481380E-01

C O M P L E X E I G E N V E C T O R NO. 32
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-1.824268E-03	1.032089E-01	2.513154E-03	-1.093557E-02	1.036435E-05	-2.967239E-03
		2.327263E-03	1.214331E-02	-1.752564E-03	1.093312E-04	-6.785515E-06	9.770919E-05
2511	G	-4.480030E-02	-4.006312E-01	1.591115E-01	-1.093535E-02	1.061428E-05	-2.967089E-03
		3.950378E-03	2.066613E-02	-2.973686E-03	1.093308E-04	-6.834277E-06	9.768187E-05
2572	G	-2.265255E-03	-8.106332E-01	8.798610E-04	-1.093542E-02	1.060317E-05	-2.967098E-03
		2.612321E-03	3.175880E-02	-7.001320E-04	1.094246E-04	-6.841318E-06	9.769962E-05
2649	G	-2.154648E-03	-9.434948E-01	-2.815730E-06	-1.093546E-02	1.057370E-05	-2.967129E-03
		2.541027E-03	3.875180E-02	-1.313012E-04	1.096553E-04	-6.750236E-06	9.778066E-05
2697	G	9.415410E-03	-3.479278E-01	-4.051387E-02	-1.093582E-02	1.060548E-05	-2.967229E-03
		1.740082E-03	3.518079E-02	5.185779E-04	1.103786E-04	-6.855242E-06	9.812573E-05
19777	G	-2.874308E-02	4.081528E-02	1.014714E-01	-1.093536E-02	1.102598E-05	-2.967318E-03
		3.340655E-03	9.291369E-03	-3.084897E-03	1.092506E-04	-6.854356E-06	9.772322E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -8.303530E-03, 6.335569E-01

C O M P L E X E I G E N V E C T O R NO. 33
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.116511E-02	9.150286E-01	-4.887106E-02	0.0	0.0	0.0
		1.293216E-03	-2.663443E-02	-4.548779E-03	0.0	0.0	0.0
1003	G	-2.317771E-02	8.126887E-01	-5.488491E-02	0.0	0.0	0.0
		1.416778E-03	-2.035094E-02	-4.907611E-03	0.0	0.0	0.0
1004	G	-2.324433E-02	7.130508E-01	-5.582479E-02	0.0	0.0	0.0
		1.417533E-03	-1.424495E-02	-4.809472E-03	0.0	0.0	0.0
1006	G	-1.822250E-02	4.781880E-01	-4.453255E-02	0.0	1.875075E-05	-2.174529E-03
		1.100771E-03	-1.516988E-02	-3.725698E-03	0.0	-2.015073E-06	1.336089E-04
1007	G	-1.058483E-03	3.657615E-01	-2.219928E-04	0.0	0.0	0.0
		4.455482E-05	-7.810207E-03	9.300523E-05	0.0	0.0	0.0
1012	G	6.683658E-02	8.302120E-02	1.761496E-01	5.747189E-03	2.136950E-05	-2.178259E-03
		-4.115786E-03	1.623961E-02	1.502887E-02	4.680177E-04	-2.046755E-06	1.336704E-04
1013	G	-6.930355E-02	8.302120E-02	-1.830470E-01	5.747183E-03	2.136950E-05	-2.178256E-03
		4.238389E-03	1.623961E-02	-1.422257E-02	4.680207E-04	-2.046754E-06	1.336700E-04
1017	G	1.271133E-01	4.665502E-01	3.394882E-01	0.0	0.0	0.0
		-7.835953E-03	-1.389738E-02	2.763105E-02	0.0	0.0	0.0
1018	G	-1.282072E-01	4.665521E-01	-3.378549E-01	0.0	0.0	0.0
		7.824899E-03	-1.389744E-02	-2.763384E-02	0.0	0.0	0.0
1021	G	-4.886652E-04	3.471480E-01	8.590717E-04	5.742972E-03	2.223179E-05	-2.177183E-03
		-5.699031E-06	-2.489328E-02	-8.737133E-06	4.688978E-04	-2.054457E-06	1.337195E-04
1022	G	1.080221E-03	-4.752871E-02	8.590722E-04	5.743371E-03	2.226018E-05	-2.177229E-03
		-1.484419E-04	-5.722920E-02	-8.737162E-06	4.709089E-04	-2.048930E-06	1.336124E-04
1023	G	-8.984635E-02	1.000000E+00	-2.303171E-01	5.783543E-03	-7.381658E-06	-2.207152E-03
		5.514325E-03	0.0	-1.887891E-02	4.676992E-04	-1.688121E-06	1.341188E-04
1024	G	8.530428E-02	9.999849E-01	2.360678E-01	5.783535E-03	5.248443E-05	-2.208807E-03
		-5.191538E-03	3.948059E-07	1.848116E-02	4.676958E-04	-2.523422E-06	1.341073E-04
1025	G	-8.884367E-02	7.245778E-01	-2.299088E-01	5.767160E-03	7.581169E-06	-2.207140E-03
		5.514295E-03	1.673237E-02	-1.868588E-02	4.679450E-04	-1.818329E-06	1.341486E-04
1026	G	8.530144E-02	7.245747E-01	2.301211E-01	5.767161E-03	3.579319E-05	-2.207424E-03
		-5.191504E-03	1.673245E-02	1.879055E-02	4.679448E-04	-2.340827E-06	1.341588E-04
1028	G	4.037564E-02	-5.353928E-01	1.002918E-01	5.746434E-03	2.128034E-05	-2.178471E-03
		-2.527170E-03	3.055548E-03	9.267539E-03	4.680685E-04	-1.911111E-06	1.332061E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -8.303530E-03, 6.335569E-01

C O M P L E X E I G E N V E C T O R NO. 33
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-5.704355E-04	2.440971E-01	-1.684784E-04	5.747758E-03	2.417830E-05	-2.175838E-03
		-8.877142E-07	-1.834567E-02	8.860400E-05	4.682030E-04	-2.120284E-06	1.336211E-04
2511	G	-3.257650E-02	3.172856E-01	-8.385178E-02	5.746411E-03	2.132153E-05	-2.178051E-03
		1.886419E-03	3.567728E-03	-6.533626E-03	4.681880E-04	-2.049151E-06	1.336772E-04
2572	G	-1.483053E-03	1.485401E-01	-3.464281E-03	5.747086E-03	2.138889E-05	-2.178219E-03
		8.520229E-05	2.180226E-02	4.046404E-04	4.680308E-04	-2.043899E-06	1.336613E-04
2649	G	-1.260067E-03	-9.273221E-02	-5.242474E-03	5.747557E-03	2.125630E-05	-2.178338E-03
		6.383002E-05	2.804104E-02	5.745564E-04	4.676180E-04	-2.173219E-06	1.335835E-04
2697	G	8.101031E-03	-5.386625E-01	1.509888E-02	5.748360E-03	2.128451E-05	-2.178528E-03
		-5.522961E-04	2.842738E-03	2.358677E-03	4.667654E-04	-1.944673E-06	1.334561E-04
19777	G	-2.053369E-02	4.678298E-01	-5.073386E-02	5.741949E-03	2.045317E-05	-2.174080E-03
		1.241366E-03	-1.601270E-02	-4.231518E-03	4.683502E-04	-2.054143E-06	1.336044E-04

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.730964E-02, 1.987509E+01

C O M P L E X E I G E N V E C T O R NO. 34
(REAL/IMAGINARY)

POINT ID	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-1.532181E-01	2.073503E-03	-2.414870E-01	0.0	0.0	0.0
		-1.003984E-04	-9.616358E-05	-1.397516E-03	0.0	0.0	0.0
1003	G	-1.532864E-01	7.000104E-04	-1.627844E-01	0.0	0.0	0.0
		-1.001433E-04	-4.575281E-05	-9.683488E-04	0.0	0.0	0.0
1004	G	-1.538242E-01	-7.308450E-04	-8.759607E-02	0.0	0.0	0.0
		-7.881922E-05	6.308970E-06	-5.061338E-04	0.0	0.0	0.0
1006	G	-1.823314E-01	-1.485582E-03	5.922661E-03	0.0	-1.271693E-03	-7.980352E-05
		-3.334897E-04	1.053123E-04	2.559776E-04	0.0	-1.580860E-05	8.460283E-08
1007	G	-1.848731E-01	-8.182138E-04	7.632638E-02	0.0	0.0	0.0
		-1.841638E-04	8.530841E-05	8.921773E-04	0.0	0.0	0.0
1012	G	-1.758009E-01	2.241005E-03	3.828784E-01	7.212480E-05	-2.394537E-03	8.826310E-05
		8.178241E-06	-2.074824E-04	7.355314E-05	-2.090491E-06	2.110871E-05	-1.787856E-06
1013	G	-1.743465E-01	2.241029E-03	3.873761E-01	-2.083760E-04	-2.394537E-03	-3.945458E-05
		-9.833635E-05	-2.074923E-04	2.942384E-04	-4.631221E-06	2.110868E-05	-1.339595E-06
1017	G	-1.816666E-01	-4.052458E-04	-1.006250E-03	0.0	0.0	0.0
		-2.924138E-04	9.953258E-05	2.404851E-04	0.0	0.0	0.0
1018	G	-1.838308E-01	-1.752162E-03	9.640353E-03	0.0	0.0	0.0
		-2.513851E-04	1.114187E-04	5.217806E-04	0.0	0.0	0.0
1021	G	-1.189220E-01	-1.532191E-03	-1.878658E-02	1.957636E-04	8.456515E-03	-3.152150E-05
		-4.281748E-04	1.006372E-04	2.927871E-04	3.087432E-06	-3.593058E-06	1.039484E-06
1022	G	1.000000E+00	3.515881E-03	-1.880265E-02	-1.442077E-04	2.173783E-02	7.455289E-04
		0.0	-2.079317E-04	2.929082E-04	5.563651E-06	1.373059E-05	1.706895E-06
1023	G	-9.998849E-02	-5.135616E-04	-1.275888E-01	-4.171887E-05	-1.488655E-03	-4.892598E-05
		4.405077E-04	-5.534343E-05	-8.442637E-04	-2.181715E-06	-1.284467E-05	1.258588E-06
1024	G	-9.884931E-02	-6.822476E-03	-1.323621E-01	-1.362185E-04	-1.502047E-03	5.179643E-05
		4.287998E-04	-1.223406E-04	-1.132796E-03	-3.240037E-06	-1.798844E-05	1.659868E-06
1025	G	-9.997939E-02	-6.620844E-03	5.180198E-02	-7.168694E-05	-1.370988E-03	-5.436332E-05
		4.399097E-04	-2.729755E-05	9.040860E-04	-2.689132E-06	-1.768928E-05	1.653881E-06
1026	G	-9.885415E-02	-6.248045E-03	4.550237E-02	-7.843573E-05	-1.388037E-03	-2.280722E-05
		4.291713E-04	-1.049586E-05	7.089285E-04	-1.324851E-06	-1.584069E-05	-1.845577E-06
1028	G	-3.852852E-01	-5.489184E-03	7.253379E-01	9.142898E-04	-2.985407E-03	5.437714E-04
		3.016556E-03	2.977045E-04	-4.846934E-03	-2.271274E-05	4.865088E-05	-1.022685E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.730984E-02, 1.987509E+01

C O M P L E X E I G E N V E C T O R NO. 34
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	-2.233525E-01	1.278547E-03	7.310281E-02	-1.071009E-04	-1.685119E-03	1.346421E-05
		-3.278485E-04	1.433401E-04	8.674155E-04	-1.686207E-06	-8.061212E-06	-9.651158E-07
2511	G	-1.681195E-01	-9.279849E-04	1.654013E-01	-9.873688E-05	-1.899949E-03	-3.401773E-05
		-1.224891E-04	1.258218E-06	1.152166E-03	-3.512907E-06	3.280308E-08	7.695694E-07
2572	G	-1.461848E-01	1.433112E-03	3.849139E-01	-7.449960E-05	-2.378977E-03	2.667846E-05
		-2.965579E-04	-2.496988E-04	1.599662E-04	-3.834807E-06	2.130886E-05	-1.869041E-06
2649	G	-1.697388E-01	4.393860E-03	6.065566E-01	-9.873806E-06	-2.440315E-03	5.296446E-05
		-1.566377E-04	-3.312708E-04	-2.747777E-03	-5.187701E-06	4.617742E-05	-1.922802E-06
2697	G	-3.602759E-01	-5.641408E-03	7.147204E-01	5.542691E-04	-3.057900E-03	3.519804E-04
		2.915044E-03	3.057310E-04	-4.539096E-03	-2.029510E-05	5.180941E-05	-8.196752E-06
19777	G	-1.848057E-01	-1.830798E-03	5.777418E-03	1.344840E-04	-1.344603E-03	-4.999206E-05
		-3.558622E-04	1.076649E-04	2.570689E-04	-1.010444E-06	-1.332015E-05	1.484971E-06

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.305214E+00, 5.062168E+01

C O M P L E X E I G E N V E C T O R NO. 35
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1001	G	-2.318718E-02	7.289581E-02	3.489790E-01	0.0	0.0	0.0
		2.476131E-04	-7.954095E-03	-1.566592E-03	0.0	0.0	0.0
1003	G	-2.317246E-02	4.102337E-02	1.918997E-01	0.0	0.0	0.0
		3.272372E-04	-4.688620E-03	-8.544790E-04	0.0	0.0	0.0
1004	G	-1.461925E-02	1.075734E-02	5.076582E-02	0.0	0.0	0.0
		6.946560E-05	-1.697022E-03	-6.198689E-04	0.0	0.0	0.0
1006	G	1.690447E-02	-2.136227E-02	-7.333230E-02	0.0	1.408297E-03	-4.717434E-04
		-6.533150E-04	2.190734E-03	3.627133E-04	0.0	-3.802624E-05	4.762053E-05
1007	G	8.527147E-03	-3.838169E-02	-1.372846E-01	0.0	0.0	0.0
		-6.384715E-04	4.327209E-03	1.322619E-03	0.0	0.0	0.0
1012	G	-4.703041E-02	2.243044E-02	6.899238E-02	-1.033367E-04	-4.113836E-03	1.073622E-03
		1.763844E-03	-3.348821E-04	5.029345E-03	4.876116E-05	3.966009E-05	-8.319129E-05
1013	G	1.484136E-02	2.243043E-02	8.330418E-02	-4.208435E-04	-4.113830E-03	9.725988E-04
		-3.681765E-03	-3.348819E-04	4.793038E-03	-4.917271E-05	3.966086E-05	-9.014167E-05
1017	G	4.740857E-02	-2.441650E-02	-7.135372E-02	0.0	0.0	0.0
		-3.443518E-03	2.567821E-03	-1.531128E-03	0.0	0.0	0.0
1018	G	1.548548E-03	-2.431332E-02	-9.140052E-02	0.0	0.0	0.0
		2.262125E-03	2.515302E-03	2.087493E-03	0.0	0.0	0.0
1021	G	6.307161E-02	-2.385677E-02	-7.386148E-02	-2.327800E-04	2.149315E-04	-4.703062E-04
		-3.665822E-04	2.548191E-03	-1.098570E-04	2.971943E-05	3.507537E-05	5.333729E-05
1022	G	-3.903290E-02	5.977788E-03	-7.418806E-02	-5.762507E-04	-2.629353E-03	-5.867516E-04
		2.854689E-03	-8.348398E-04	-1.382836E-04	6.447824E-05	5.639541E-05	5.048651E-05
1023	G	-1.101642E-01	5.302858E-03	1.370234E-01	-1.167116E-04	2.558341E-03	-2.060558E-04
		2.581789E-04	-8.125689E-03	7.759916E-03	-9.583661E-05	1.488055E-04	1.084890E-04
1024	G	-7.518678E-02	5.674977E-02	1.568855E-01	5.363660E-04	3.002948E-03	-1.037335E-03
		-3.628933E-03	-1.315951E-03	3.581665E-03	1.563159E-05	1.158132E-04	1.070085E-05
1025	G	-1.100491E-01	-1.460218E-02	-1.557187E-01	5.096160E-04	2.803889E-03	-3.860574E-04
		2.557641E-04	3.298038E-03	6.957260E-04	5.224806E-06	3.098810E-05	7.349581E-05
1026	G	-7.514172E-02	-3.980107E-02	-1.408535E-01	-3.417882E-04	2.494567E-03	-4.632359E-04
		-3.621495E-03	7.328922E-04	-2.251507E-03	-6.577879E-05	4.889809E-05	3.765476E-05
1028	G	-6.781679E-01	2.346759E-01	1.000000E+00	5.989556E-03	-8.078778E-03	8.137812E-03
		8.720438E-03	-3.250688E-02	0.0	6.997884E-04	1.259280E-04	-1.868389E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL
COMPLEX EIGENVALUE = -2.305214E+00, 5.062168E+01

C O M P L E X E I G E N V E C T O R NO. 35
(REAL/IMAGINARY)

POINT ID.	TYPE	T1	T2	T3	R1	R2	R3
1029	G	2.704757E-02	-4.885222E-02	-1.344189E-01	1.445058E-04	1.077315E-03	-8.227251E-05
		-1.278220E-03	5.368958E-03	1.296566E-03	-3.498531E-05	-2.948007E-05	2.236161E-05
2511	G	1.394868E-03	-4.076775E-02	-1.522828E-01	1.430562E-04	-5.764433E-04	2.819633E-04
		-9.080610E-04	4.585536E-03	3.174334E-03	-3.267063E-05	-1.984591E-05	-3.905045E-05
2572	G	3.300672E-02	2.053120E-02	7.667932E-02	-1.737730E-04	-4.162583E-03	9.581670E-04
		-1.424434E-03	-3.525790E-04	4.470507E-03	1.076540E-05	4.728377E-05	-8.724357E-05
2649	G	2.834088E-03	1.308087E-01	6.045728E-01	-8.821271E-04	-4.857681E-03	1.710141E-03
		-1.814372E-03	-1.050322E-02	-5.344832E-03	1.124665E-04	6.919274E-04	-1.295518E-04
2697	G	-5.825564E-01	2.345750E-01	9.372224E-01	2.466035E-03	-9.694079E-03	5.611076E-03
		8.071732E-03	-3.258082E-02	-8.861572E-03	4.048186E-04	1.433444E-04	-8.346472E-05
19777	G	1.950846E-02	-2.137404E-02	-7.336465E-02	2.996293E-05	1.649150E-03	-3.374764E-04
		-6.370557E-04	2.260094E-03	4.046722E-04	-3.885083E-05	-2.351448E-05	5.424671E-05

THIS VERSION CONTAINS A BUILTUP TAILBOOM MODEL

* * * END OF JOB * * *