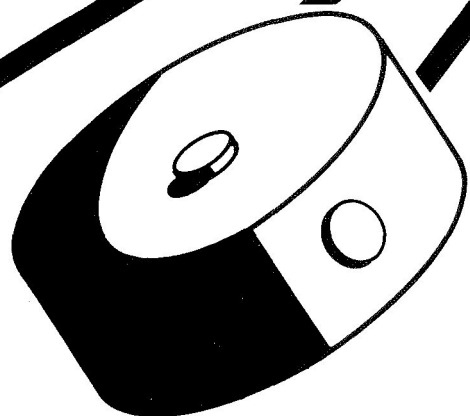


SUBSYSTEMS TEST BED



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THERMAL MATHEMATICAL MODEL DOCUMENTATION

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SPACE HEAT
TRANSFER



CR 108626

"SUBSYSTEMS TEST BED (STB) THERMAL
MATH MODEL (TMM) DOCUMENTATION"

JUNE 29, 1970

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1. INTRODUCTION

The objective of this report is to document the Thermal Math Models (TMM's) utilized to complete the six task assignments under the Subsystems Test Bed (STB) contract. They include:

1. STB TMM, a full size model used for test planning, instrumentation planning, pre-test predictions, and post test data correlation.
2. STB Quarter Section TMM, a more finely nodalized model of the STB Quarter Section between the -Z and +Y axes used to correlate the detailed instrumentation on the STB pressure shell.
3. Standoff TMM, a model of a typical standoff section used to correlate standoff instrumentation.

A physical description of the STB, excluding the windows and the Temperature and Humidity Control Package (THCP) is contained in Reference 1. The windows were designed and manufactured under NASA/MSD direction and installed just prior to thermal vacuum (T/V) testing. In the absence of a complete physical description, Figure 9 and Table 1 provide a sketch and description of the window components. Actual dimensions and materials are not available. The THCP was also installed just prior to the T/V test. Its purpose was to circulate nitrogen in the STB cabin at a controlled temperature during various phases of the test. Figure 12 and Table 1 provide a rough sketch and description of the THCP components.

2. MODEL DOCUMENTATION

2.1 STB TMM

The final STB TMM is a modified and updated version of the STB TMM documented in Reference 1. The major modifications to the original model consist of a new window network, a THCP network, a new internal radiation network, and new program logic to compute temperature dependent conductivities. The latter two modifications reduced the computer time required to execute the model by 80%.

2.1.1 TMM Network

The STB TMM consists of 536 nodes and 1284 conductors. The majority of node capacitance values and conductor values remained unchanged from the original STB model. For this reason, sample calculations from Reference 1 are still applicable. The exceptions will be noted in the appropriate sections below.

A complete listing of the final STB TMM and the Resistance-Capacitance (RC) network are presented in Appendix A. The RC network defines all capacitor and conductor values at 70°F for the final STB TMM. Figures 1 through 13 illustrate the nodal divisions of the various components of the STB, and, in a case where one figure is representative of several identical components, Table 1 contains the reference/actual node key.

2.1.1.1 Meteoroid Shield

The meteoroid shield is divided into 88 nodal areas numbered 1 to 28 for the top bulkhead, 30 to 61 for the sidewall, and 62 to 89 for the bottom bulkhead. Figures 1 through 4 illustrate the meteoroid shield node centers. No modifications were made to the meteoroid shield node capacitor values or lateral conductor values. The meteoroid shield to pressure shell conductors, i.e., the multi-layer insulation (MLI) conductance, are temperature dependent in the final STB as opposed to temperature and pressure dependent in the original model. The final model utilized conduction data for an MLI pressure of 10^{-4} torr. This can be substituted with data at any pressure desired.

2.1.1.2 Pressure Shell

The pressure shell is also divided into 88 nodal areas and are numbered 101 to 128 and 130 to 189. The diffusion node centers are illustrated in Figures 5 through 8. Capacitance values for sidewall nodes located between the STB (-Z, -Y) and (-Y, +Z) axes have been reduced to account for the removal of the internal ring frames from that portion of the vehicle. The ring frames were removed to allow installation of two large strip heaters near the -Y axes. The remainder of the capacitor values and the pressure shell lateral conductors remained unchanged.

2.1.1.3 Windows

Each window assembly is divided into nine nodes. Their numbers and locations are presented in Table 1 and Figure 9. The capacitor and conductor values for the window network were obtained from Reference 2. This network failed to correlate well with the window thermocouple (T/C) data obtained during the STB Thermal Vacuum (T/V) Test as discussed in Reference 3.

2.1.1.4 Docking Hatches

Figure 10 and Table 1 present the 13 node numbers and locations for each of the four STB docking hatches. The capacitor and conductor values for the hatch networks remained unchanged.

2.1.1.5 Center Posts

The node center locations are illustrated in Figure 11, and the node numbers are presented in Table 1. No center post network changes were made in the final STB TMM.

2.1.1.6 THCP

A model of the Temperature and Humidity Control Package was developed after the STB T/V test and was included in the final STB TMM. The node locations are illustrated in Figure 12 and the node numbers presented in Figure 12 and Table 1. The capacitor values as well as adjoining conductor numbers and values are given in the RC network listing (Appendix A). The original STB TMM didn't contain the THCP network.

2.1.1.7 Truss Supports

Each STB truss support is divided into 40 nodal areas. The node numbers are given in Table 1 and their node centers are presented in Figure 13. No modifications to the truss support network were included in the final TMM.

2.1.1.8 Hardpoints and Feedthrus

The STB TMM contains 56 arithmetic nodes designated as hardpoints and 14 arithmetic nodes representing the STB feedthrus. Hardpoints are physically described as additional metal thickness machined into the base of the radial beams at intercoastal junctions. The general intent in modeling the hardpoints was primarily to flag them for future modeling when more detail is required. All hardpoints are located in the top and bottom bulkheads, and their thermal mass is included in the corresponding pressure shell nodes. The feedthru arithmetic nodes are located in the pressure shell as follows:

T340, T341, T342	- Top Bulkhead
T343 to T348	- Sidewall
T349 to T353	- Bottom Bulkhead

The thermal capacitances of the feedthrus are included in the sidewall pressure shell nodes surrounding each feedthru. Feedthrus and hardpoints are connected to the pressure shell by conduction. The adjoining conductor values and nodes are presented in the RC network listing.

2.1.2 Model Logic

The Variables 1 logic contained in the original and final STB TMM essentially performed the same function, that is, the updating of temperature dependent capacitors and conductors. The difference between the two models is in the subroutines used to accomplish this task.

The final TMM does not contain the CGS or CGD options which were utilized extensively in the original model. Instead, where the options were required other library subroutines were used to perform their function.

The final TMM does not utilize the bivariate interpolation subroutine to determine the values of MLI conductors as a function of both temperature and pressure. Since the MLI pressure did not vary with time in any STB thermal analysis, it was only necessary to determine the MLI conductance as a function of temperature. This was accomplished with the faster linear interpolation subroutines.

The final STB TMM has a subroutine call, INTRAD, in the variables 2 block. It is the function of this subroutine to account for radiant heat transfer inside the STB vehicle. The subroutine is called after the STB TMM network is solved ignoring internal radiations and then adjusts the interior node temperatures to account for radiation heat transfer. This modification resulted in the elimination of nearly 6,000 radiation conductors. INTRAD is discussed in greater detail in the following section.

2.1.3 INTRAD

INTRAD is a radiosity network unique to the final STB TMM. The STB interior was divided into 23 surfaces and the radiosity network defined with the use of CONFAC II and a script F routine. Each of the 23 surfaces represent a group of pressure shell, window, THCP, and/or docking hatch nodes. Table 2 presents the radiating surface numbers, and the number of TMM nodes and node numbers each surface represents. Modification of the TMM network would require changes in INTRAD to prevent errors in the model.

At every calculation interval, the temperature of each radiating surface is set equal to the area weighted average of its composite node temperatures. The radiation exchange between the surfaces is calculated, and a net heating rate assigned to each surface. The net heating rate is then divided among the surfaces' components by the following node area and fourth power temperature weighting technique.

If q_{net} is negative

$$q_i = \frac{T_i^4 A_i}{\sum_{i=1}^n T_i^4 A_i} q_{net}$$

If q_{net} is positive

$$q_i = \frac{A_i/T_i^4}{\sum_{i=1}^n A_i/T_i^4} q_{net}$$

where q_i is the heating rate for node i

A_i is the area of node i

T_i is the temperature of node i ($^{\circ}\text{R}$)

n is the number of nodes in the radiating surface

q_{net} is the heating rate for the radiating surface

New temperatures are then calculated for each interior node.

INTRAD is programmed in FORTRAN and the "load and go" option in CINDA is utilized. A listing of the subroutine is contained in Appendix B.

2.2 STB QUARTER SECTION TMM

A thermal math model of one quarter of the Subsystems Test Bed was developed to correlate the detailed instrumentation on the STB pressure shell. The model, consisting of 88 nodes and 270 conductors, was prepared in the CINDA-3G language, and a card listing is presented in Appendix C.

The detailed model represents the quarter section lying between the -Z and +Y axes of the sidewall pressure shell of the STB. The window located on this section of the pressure shell was also modeled in detail. Thermal environments representing the remainder of the STB are established through the use of boundary nodes on all sides of the active diffusion network.

In addition to the basic network, the model includes the logic and subroutine calls required to simulate various environmental and test conditions which may be of interest to subsequent users.

Figures 14, 15, 16, and 17 indicate the location of each node, and the listing of the RC network is presented in Appendix C.

The various aspects of the model are discussed in detail in the following paragraphs.

2.2.1 Boundary Nodes

Thirty-four boundary nodes are used to establish the thermal environment of the detailed model. On the outside of the pressure shell, ten boundary nodes represent the meteoroid shield temperatures (see Figure 15). In addition, because of uncertainties in the thermal properties, four boundary nodes are also provided for the thermal pane frame.

The edges of the pressure shell are driven by 15 boundary nodes which represent adjoining sections of the pressure shell on the sidewalls along the -Z and +Y axes, and on the top and bottom bulkheads along the lines where they meet the sidewall. These nodes are depicted in Figure 14.

The inside surface of the pressure shell is thermally affected by convection from the cabin air, if present, and by radiation to the remaining sections of the pressure shell. Therefore, boundary nodes are provided which represent the temperature of the cabin air and the average temperature of the unmodelled section of the pressure shell. The model includes program logic, discussed elsewhere, which adjusts the temperature of these nodes and the values of the conductors connected to them in order to account for various STB internal conditions.

Interpolation calls to establish the current temperature of each boundary node are included in the variables 1 operations block. The interpolations require an array of time and corresponding arrays of temperatures for each boundary node. These arrays must be loaded prior to calling for the network solution. They may be loaded with temperature histories recorded during actual thermal tests or with histories resulting from a simulation using the full section STB model.

2.2.2 Pressure Shell and Docking Hatch

Thirty-three diffusion nodes are distributed over the sidewall pressure shell and hatch. The location of each node is shown in Figures 14 and 17. An array, A2000, is provided for establishing the initial temperature of each pressure shell, hatch, and window diffusion node. This array may be loaded with temperatures obtained from actual tests or previous runs of the quarter section model.

2.2.3 Window

The nodalization of the window is shown in Figure 16. The thermal capacities and conductances for the model were obtained by iterating on actual test data as described in Reference 3. The correlation analysis demonstrated that the network provides an accurate simulation of the thermal behavior of the window.

2.2.4 Environment Logic

To preserve the simplicity and the fast execution time of the model, a single boundary node representing the average temperature of the entire pressure shell was provided. To configure the model to simulate a hot soak with the sunlight impinging on the top bulkhead, the control variable ITPSUN should be set equal to 2 in the execution and variables 1 operations blocks. This will cause the average pressure shell boundary node temperature to be set equal to the temperature of one of the top bulkhead boundary nodes, and the radiation conductances to be scaled to reflect the proper form factors. When ITPSUN is set to 1, the boundary node temperature is taken from an array of average pressure shell temperatures and the radiation conductances reflect the form factors from the quarter section sidewall to the entire remaining pressure shell. This configuration is appropriate for cold soaks and side sun hot soaks.

To configure the model to simulate a vacuum in the STB cabin, the control variable IFLOW is set to 1 in the variables 1 block. This causes a dummy conductance of 10^{-20} to be used for the conductors connecting the pressure shell nodes to the cabin air node. IFLOW is set to 2 to simulate free convection with the air in the cabin. This case requires that arrays A402 and A401 contain a table of film coefficient (h) vs. ΔT , respectively. Array A403 contains the approximate area of each node that is exposed to the cabin air. To provide for effective film coefficients representing forced convection, array A404 or A405 is called in place of A402 when IFLOW equals 3 or 4, respectively.

The STB has small motors which can be used to open the external thermal pane, thus exposing the outer pressure pane to the space environment. When control variable IPANE equals 1, the thermal pane is considered closed, and a dummy value of 10^{-20} is used for the radiation conductors between the outer pressure pane and space. If IPANE is set equal to 2, the true values of the conductors are used, and the pane is considered open.

The window is covered on the inside by a movable, aluminized mylar shade. When the shade is open, cabin air may freely pass over the inner pressure pane of the window. To simulate this case, control variable ISHAD is set to 2. A closed shade is simulated when ISHAD equals 1.

If no solar flux is to be applied to the window panes, the control variable ISUN should be set to 1. If ISUN equals 2, the solar flux stored in constant K99 is applied to the thermal pane, with proportionately less being applied to the pressure panes. Setting ISUN equal to 3 simulates the spacecraft rolling in sunlight at a rate of 2 RPH CW or 15 RPH CCW, alternating each revolution.

The control variable IAMPS is used to simulate the presence of strip heaters attached to the sidewall as explained in Reference 4. The maximum power output of a heater is stored in constant K81, and a power setting of 0%, 1%, 25%, or 100% is simulated when IAMPS = 1, 2, 3, or 4, respectively.

2.3 STANDOFF TMM

A thermal math model of a typical fiberglass standoff section was developed to correlate with the STB standoff instrumentation (see References 3 and 4). Figure 18 is a pictorial representation of the section which is 12-1/2 inches long, 7/8 inch high and 3-3/4 inches across the top flange. It is 1/32 inch thick and the cut-out section at the bottom is 11" x 5/16." The standoff is attached directly to the pressure shell with epoxy and to the meteoroid shield by two one-inch long nylon bolts. The MLI is separated from the meteoroid shield and the standoff by grommets located around the bolts. The contact points between the standoff section and the pressure shell are approximately 1-1/2" x 3/4".

The model consists of 30 nodes and 61 conductors. The thermal environment for the model is established by the use of T/V test data to set the meteoroid shield and pressure shell boundary temperatures. The standoff nodes, their description, and their capacitance values are presented in Table 3.

Heat transfer between the meteoroid shield and the standoff is accomplished by conduction through the MLI and along the bolts. Radiation between the shield and Node 3 through the holes in the MLI between the grommets and the bolts was also taken into account. Radiation exchange and conduction through the base of the standoff account for the heat transfer between the standoff nodes and the pressure shell. Table 4 presents the network conductor numbers, their adjoining nodes and values. The card listing of the Standoff TMM is provided in Appendix D.

3. SUMMARY

The models described herein provide excellent engineering tools with which to perform STB thermal analysis. The full size STB TMM requires a more accurate window network; however, this could be obtained from the STB Quarter Section Model. The three models should be utilized in conjunction with each other as the Quarter Section and Standoff models require boundary node temperatures generated by the STB TMM.

4. REFERENCES

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2. Moore, R. P., "Thermal Design Analysis for Subsystems Test Bed Window and Truss," Martin Marietta Corporation Report No. 0443-68-10, June 6, 1968.
3. Mobley, T. B., Smith, J. P., and Seward, R. E., "Subsystems Test Bed Thermal Mathematical Model Correlation," TRW Report No. 12245-H003-R001, June 29, 1970.
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TABLE 1
STB TMM REFERENCE/THERMAL NODE KEY

A. WINDOWS

REFERENCE NODE	DESCRIPTION	THERMAL NODES					
		WINDOW 1	WINDOW 2	WINDOW 3	WINDOW 4	WINDOW 5	WINDOW 6
A	Thermal Pane	686	676	645	655	665	605
B	Thermal Pane Frame	685	675	644	654	664	604
C	Outer Pressure Pane	688	678	648	658	668	608
D	Inner Pressure Pane	683	673	643	653	663	603
E	Frame	682	672	642	652	662	602
F	Frame Adapter	681	671	641	651	661	601
G	Shade	689	679	649	659	669	609
H	Motor	687	677	647	657	667	607
I	Motor Shaft	690	680	650	660	670	610

B. DOCKING HATCHES

REFERENCE NODE	DESCRIPTION	THERMAL NODES			
		BULKHEAD HATCH 1	BULKHEAD HATCH 2	SIDEWALL HATCH 1	SIDEWALL HATCH 2
A	Cylindrical Inner Docking Hatch	561	501	521	541
B	Cylindrical Outer Docking Hatch	563	503	523	543
C	Closure Plate	562	502	522	542
D	Cylindrical Meteoroid Shield	564	504	524	544
E	Motor	565	505	525	545
F	Motor Cover	566	506	526	546
G	Motor Shaft	567	507	527	547
H	Motor Components	569	509	529	549
I	Insulated Inner Surface	568	508	528	548
J	Insulated Outer Surface	570	510	530	550
K	Hatch Cover Meteoroid Shield	571	511	531	551
L	Hatch Cover Structure	572	512	532	552
M	Hatch Cover Insulation	573	513	533	553

TABLE 1 (CONT.)

C. CENTER POSTS

<u>REFERENCE NODE</u>	<u>DESCRIPTION</u>	<u>THERMAL NODES</u>			
		<u>CENTER POST 1</u>	<u>CENTER POST 2</u>	<u>CENTER POST 3</u>	<u>CENTER POST 4</u>
A	Center Post Upper Fitting	451	463	459	455
B	Center Post Upper Half	452	464	460	456
C	Center Post Lower Half	453	465	461	457
D	Center Post Lower Fitting	454	466	462	458

D. THCP

<u>REFERENCE NODE</u>	<u>DESCRIPTION</u>	<u>THERMAL NODES</u>
A	Supply Plenum	904, 905
B	Return Plenum	906, 907

E. TRUSS SUPPORTS

<u>REFERENCE NODE</u>	<u>THERMAL NODES</u>			
	<u>TRUSS SUPPORT 1</u>	<u>TRUSS SUPPORT 2</u>	<u>TRUSS SUPPORT 3</u>	<u>TRUSS SUPPORT 4</u>
A	1001	1051	1101	1151
B	1002	1052	1102	1152
C	1003	1053	1103	1153
D	1004	1054	1104	1154
E	1005	1055	1105	1155
F	1006	1056	1106	1156
G	1007	1057	1107	1157
H	1008	1058	1108	1158
I	1009	1059	1109	1159
J	1010	1060	1110	1160
K	1011	1061	1111	1161
L	1012	1062	1112	1162

TABLE 1 (CONT.)

E. TRUSS SUPPORTS (CONT.)

REFERENCE NODE	THERMAL NODES			
	TRUSS SUPPORT 1	TRUSS SUPPORT 2	TRUSS SUPPORT 3	TRUSS SUPPORT 4
M	1013	1063	1113	1163
N	1014	1064	1114	1164
O	1015	1065	1115	1165
P	1016	1066	1116	1166
Q	1017	1067	1117	1167
R	1018	1068	1118	1168
S	1019	1069	1119	1169
T	1020	1070	1120	1170
AA	1021	1071	1121	1171
BB	1022	1072	1122	1172
CC	1023	1073	1123	1173
DD	1024	1074	1124	1174
EE	1025	1075	1125	1175
FF	1026	1076	1126	1176
GG	1027	1077	1127	1177
HH	1028	1078	1128	1178
II	1029	1079	1129	1179
JJ	1030	1080	1130	1180
KK	1031	1081	1131	1181
MM	1032	1082	1132	1182
NN	1033	1083	1133	1183
OO	1034	1084	1134	1184
PP	1035	1085	1135	1185
QQ	1036	1086	1136	1186
RR	1037	1087	1137	1187
SS	1038	1088	1138	1187
TT	1039	1089	1139	1189

TABLE 2
INTRAD RADIATING SURFACES

<u>RADIATING SURFACE</u>	<u>NUMBER OF TMM NODES</u>	<u>NODE NUMBERS</u>
Sidewall 1	4	139, 140, 155, 156
Sidewall 2	5	137, 138, 153, 154, 603
Sidewall 3	5	135, 136, 151, 152, 522
Sidewall 4	5	133, 134, 149, 150, 643
Sidewall 5	4	131, 132, 147, 148
Sidewall 6	5	145, 130, 161, 146, 653
Sidewall 7	5	143, 144, 159, 160, 542
Sidewall 8	5	141, 142, 157, 158, 663
Bottom Bulkhead 1	9	169, 170, 171, 172, 181, 182, 183, 188, 189
Bottom Bulkhead 2	9	165, 166, 167, 168, 179, 180, 181, 187, 188
Bottom Bulkhead 3	9	164, 163, 162, 177, 179, 178, 185, 186, 187
Bottom Bulkhead 4	9	173, 174, 175, 176, 183, 184, 185, 189, 186
Bottom Bulkhead 5	5	186, 187, 188, 189
Top Bulkhead 1	9	110, 109, 108, 120, 121, 127, 111, 122, 128
Top Bulkhead 2	10	118, 119, 120, 127, 126, 107, 106, 105, 104, 683
Top Bulkhead 3	9	118, 117, 124, 126, 125, 103, 102, 101, 116
Top Bulkhead 4	10	122, 123, 124, 128, 125, 115, 114, 113, 112, 673
Top Bulkhead 5	5	125, 126, 127, 128, 502
THCP Supply Plenum 1	2	904, 905
THCP Supply Plenum 2	2	904, 905
THCP Return Plenum 1	2	906, 907
THCP Return Plenum 2	2	906, 907
THCP	3	901, 902, 903

TABLE 3
STANDOFF TMM NODE DESCRIPTIONS

<u>NODE NUMBER</u>	<u>DESCRIPTION</u>	<u>CAPACITANCE</u>
1	Nylon Bolt	4.23-3
2	Nylon Bolt	4.23-3
3	Fiberglass Standoff	1.96-3
4		1.99-3
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		1.49-3
15		1.49-3
16		3.00-4
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		9.50-4
28		9.50-4
61	Driver (Meteoroid Shield)	
64	Driver (Pressure Shell)	

TABLE 4
STANDOFF TMM CONDUCTOR DESCRIPTIONS

<u>CONDUCTOR NUMBER</u>	<u>FROM NODE</u>	<u>TO NODE</u>	<u>TYPE</u>	<u>VALUE</u>
1	61	1	Diffusion ↓	7.50-4
2	61	2		7.50-4
3	1	3		1.40-3
4	2	3		1.40-3
5	61	3		Variable
6	↓	4		↓
7		5		
8		6		
9		7		
10		8		
11		9		
12		10		
13		11		
14		12		
15		13		
16		14		
17	↓	15		
18	3	4		3.52-3
19	3	5		↓
20	4	6		
21	5	7		
22	6	8		
23	7	9		
24	8	10		
25	9	11		
26	10	12		
27	11	13		
28	12	14		4.02-3

TABLE 4 (CONT.)

<u>CONDUCTOR NUMBER</u>	<u>FROM NODE</u>	<u>TO NODE</u>	<u>TYPE</u>	<u>VALUE</u>
29	13	15	Diffusion ↓	4.02-3
30	3	16		3.33-3
31	5	17		
32	4	18		
33	7	19		
34	6	20		
35	9	21		
36	8	22		
37	11	23		
38	10	24		
39	13	25		
40	12	26		3.33-3
41	15	27		1.61-3
42	14	28		1.61-3
43	16	17		5.30-4
44	16	18		
45	17	19		
46	18	20		
47	19	21		
48	20	22		
49	21	23		
50	22	24		
51	23	25		
52	24	26		
53	25	27		5.80-4
54	26	28		5.80-4
55	27	64		1.61-3

TABLE 4 (CONT.)

<u>CONDUCTOR NUMBER</u>	<u>FROM NODE</u>	<u>TO NODE</u>	<u>TYPE</u>	<u>VALUE</u>
56	28	64	Diffusion	1.61-3
57	3		Radiation	4.90-12
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
58	14			3.68-12
	15			3.68-12
59	16			7.40-13
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
60	27			8.70-13
	28			8.70-13
61	61	3		6.26-12

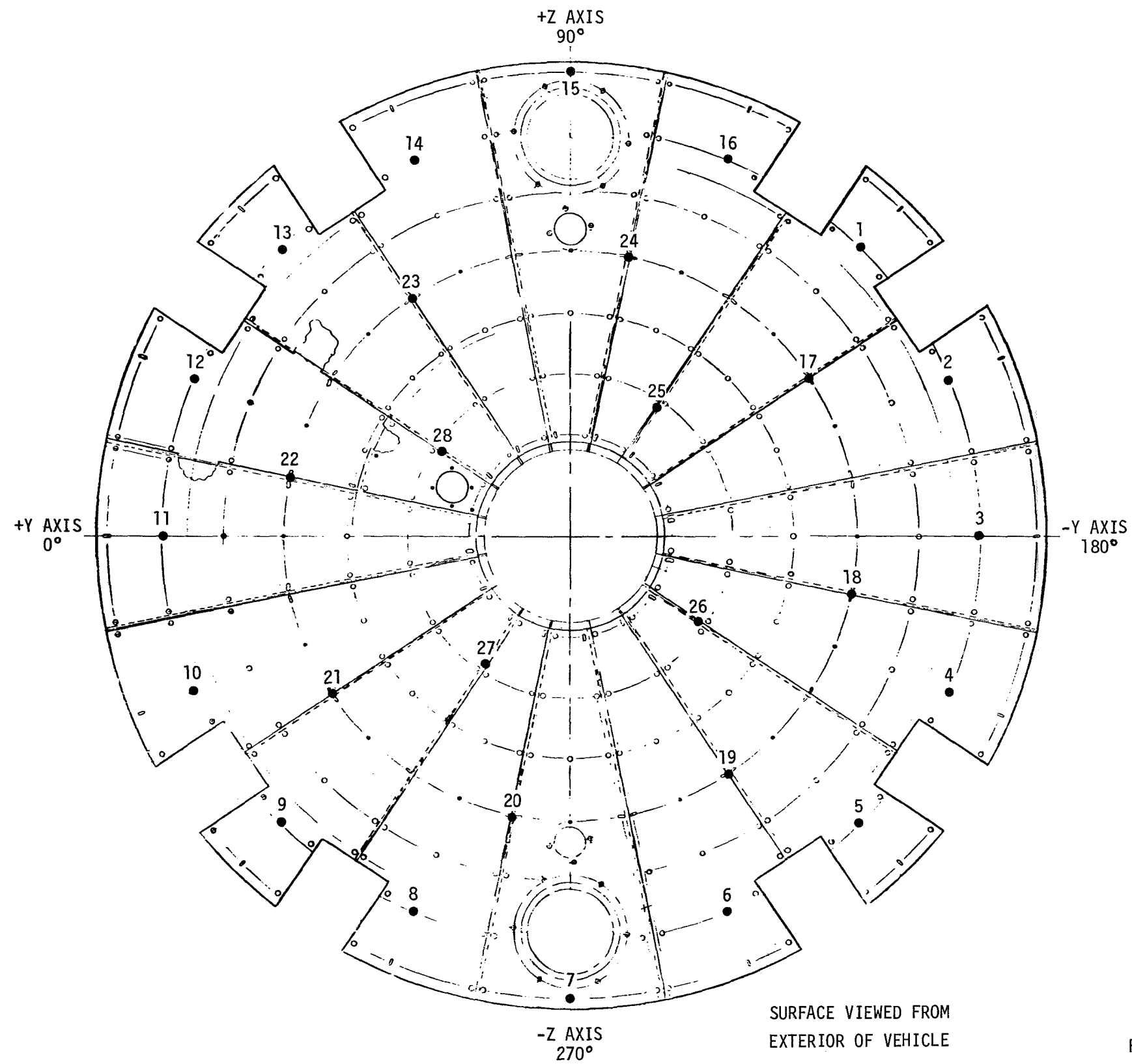


FIGURE 1 METEOROID SHIELD TOP
BULKHEAD NODE LOCATIONS

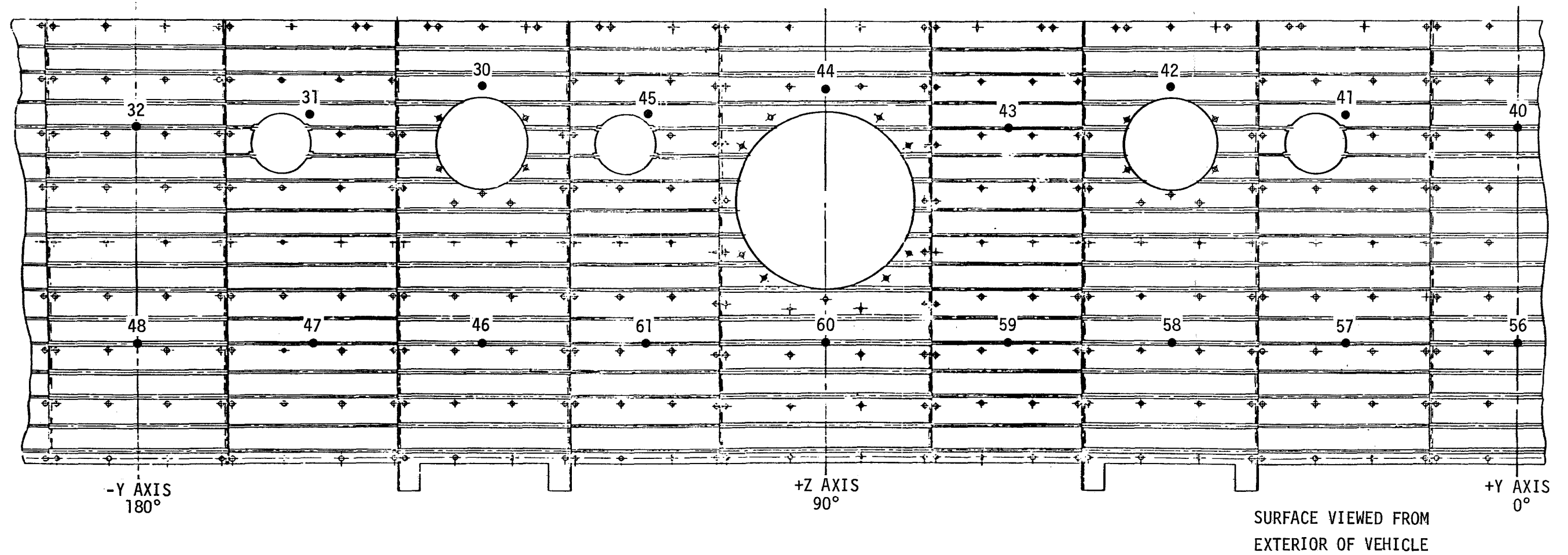


FIGURE 2 METEOROID SHIELD SIDEWALL
(+Z AXIS) NODE LOCATIONS

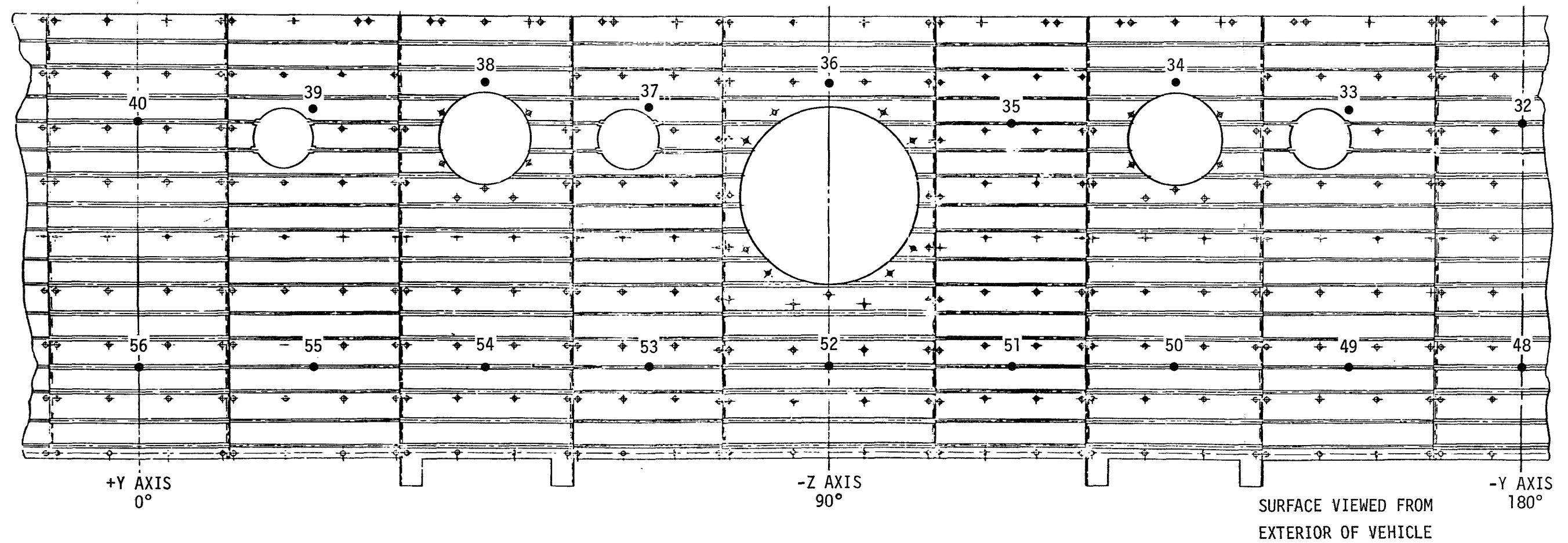


FIGURE 3 METEOROID SHIELD SIDEWALL
(-Z AXIS) NODE LOCATIONS

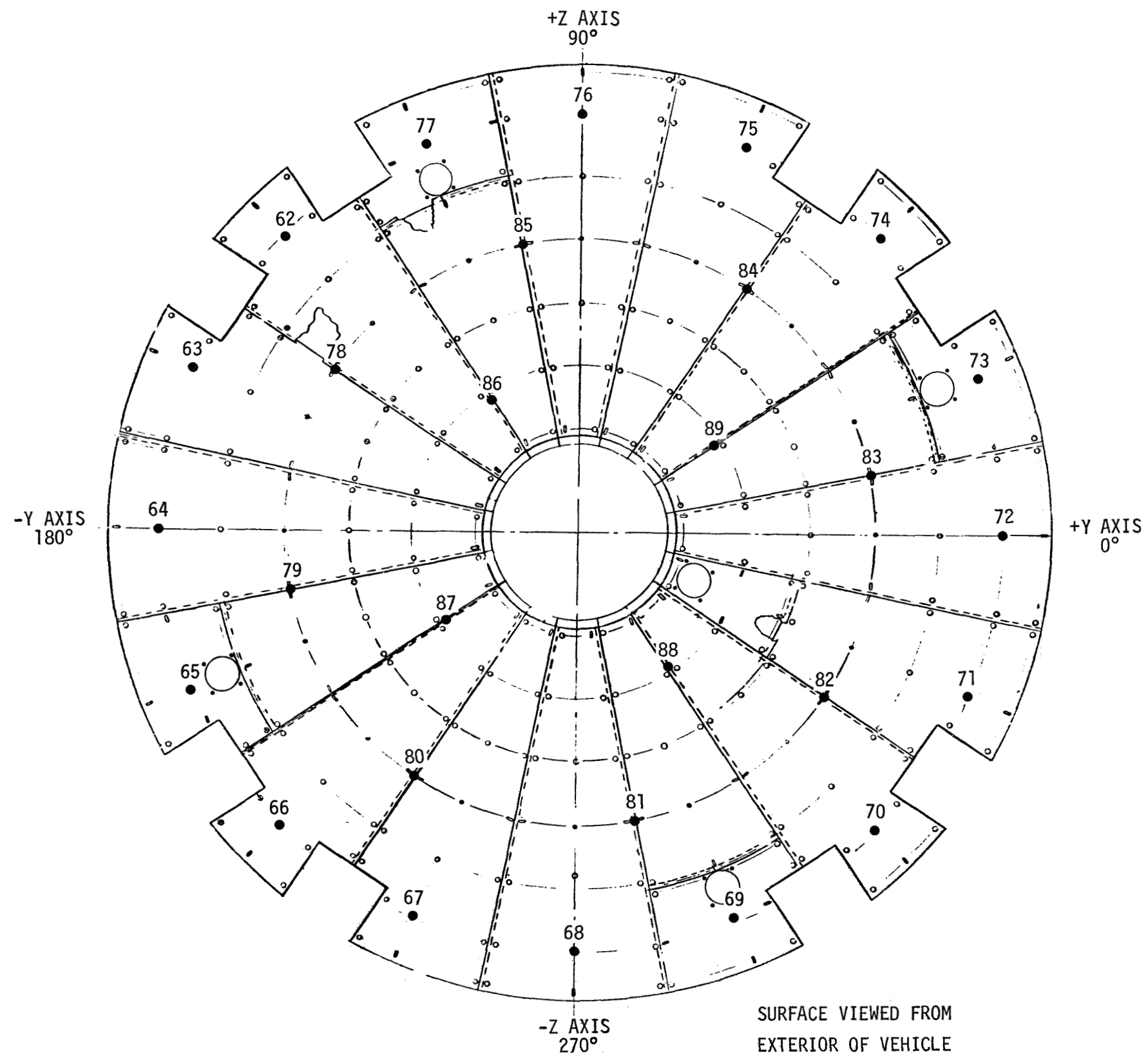
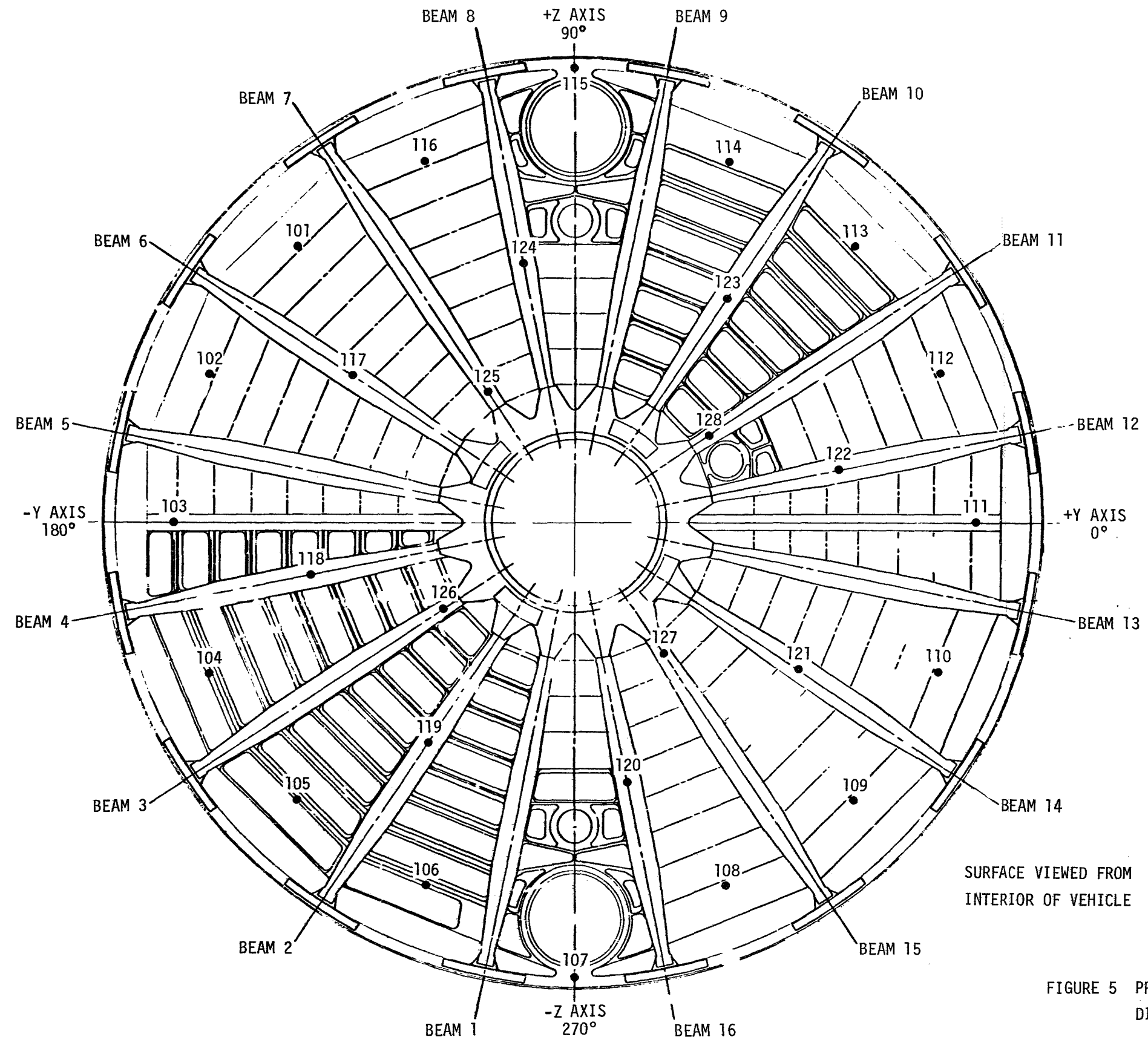


FIGURE 4 METEOROID SHIELD BOTTOM
BULKHEAD NODE LOCATIONS



SURFACE VIEWED FROM
INTERIOR OF VEHICLE

FIGURE 5 PRESSURE SHELL TOP BULKHEAD
DIFFUSION NODE LOCATIONS

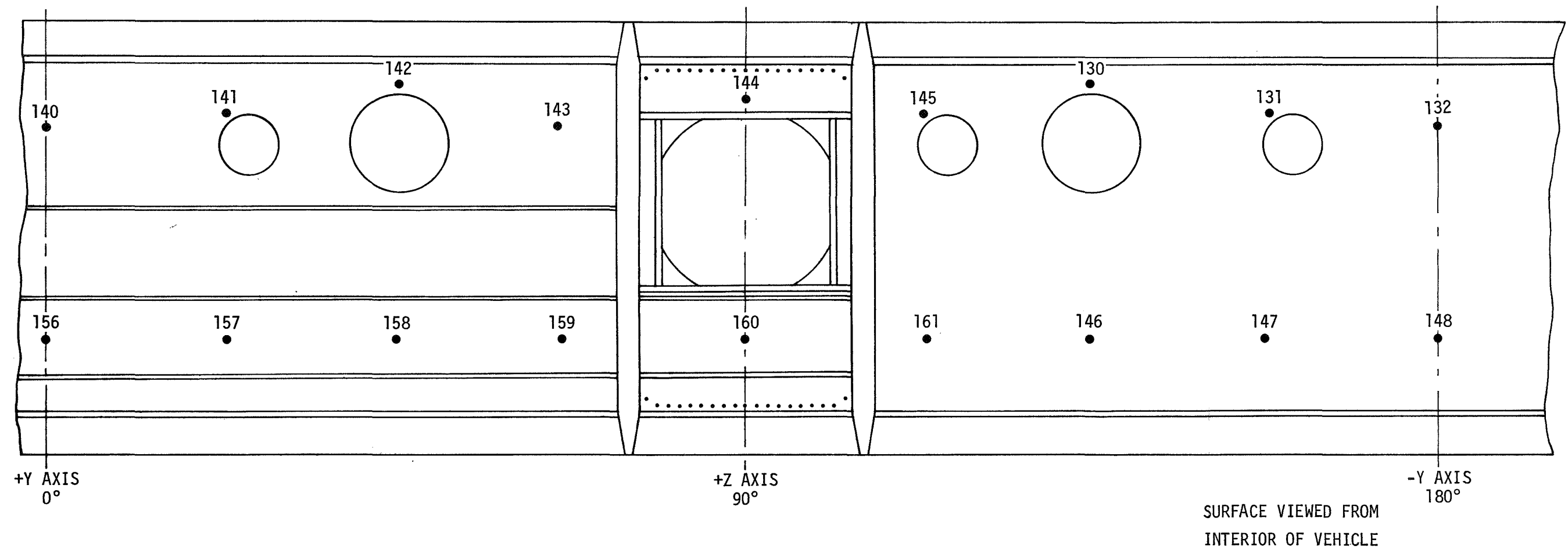


FIGURE 6 PRESSURE SHELL SIDEWALL (+Z AXIS)
DIFFUSION NODE LOCATIONS

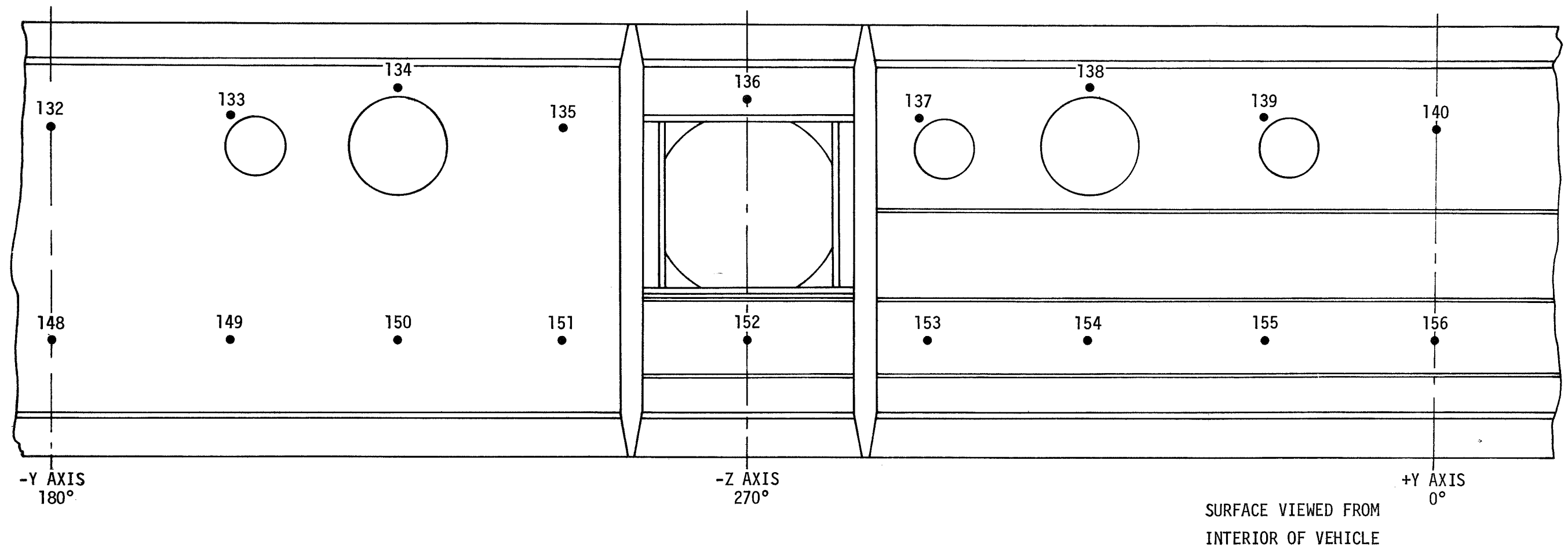


FIGURE 7 PRESSURE SHELL SIDEWALL (-Z AXIS)
DIFFUSION NODE LOCATIONS

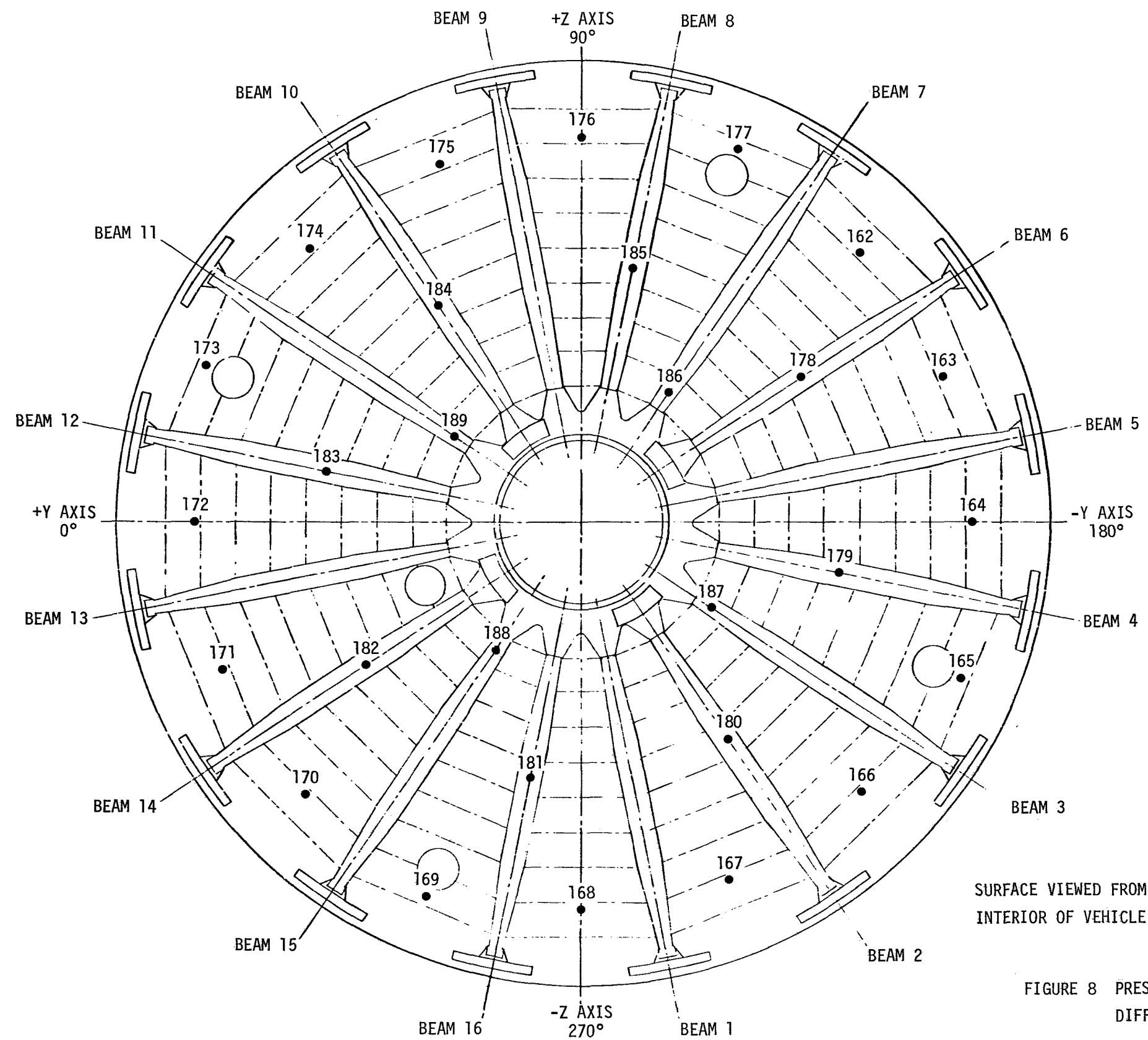
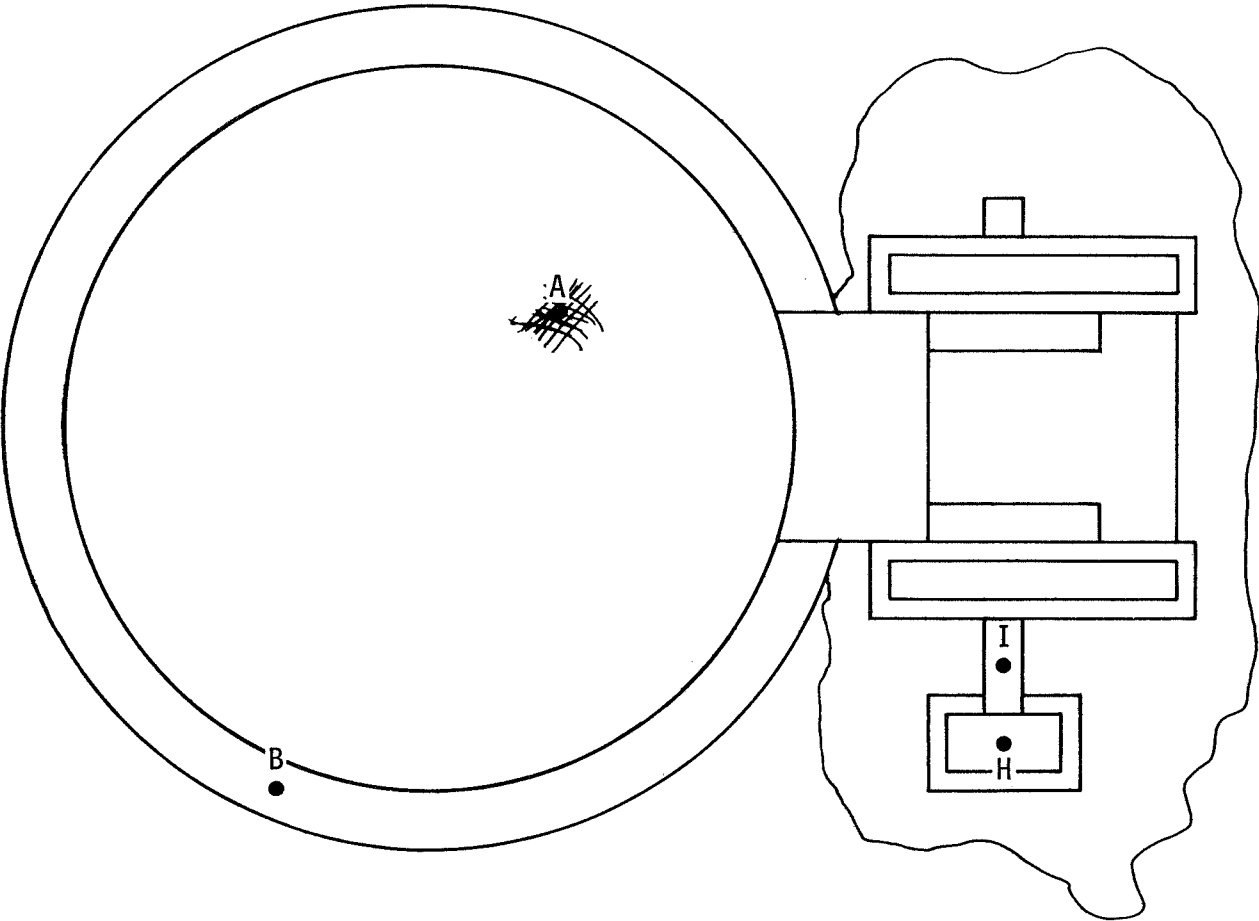
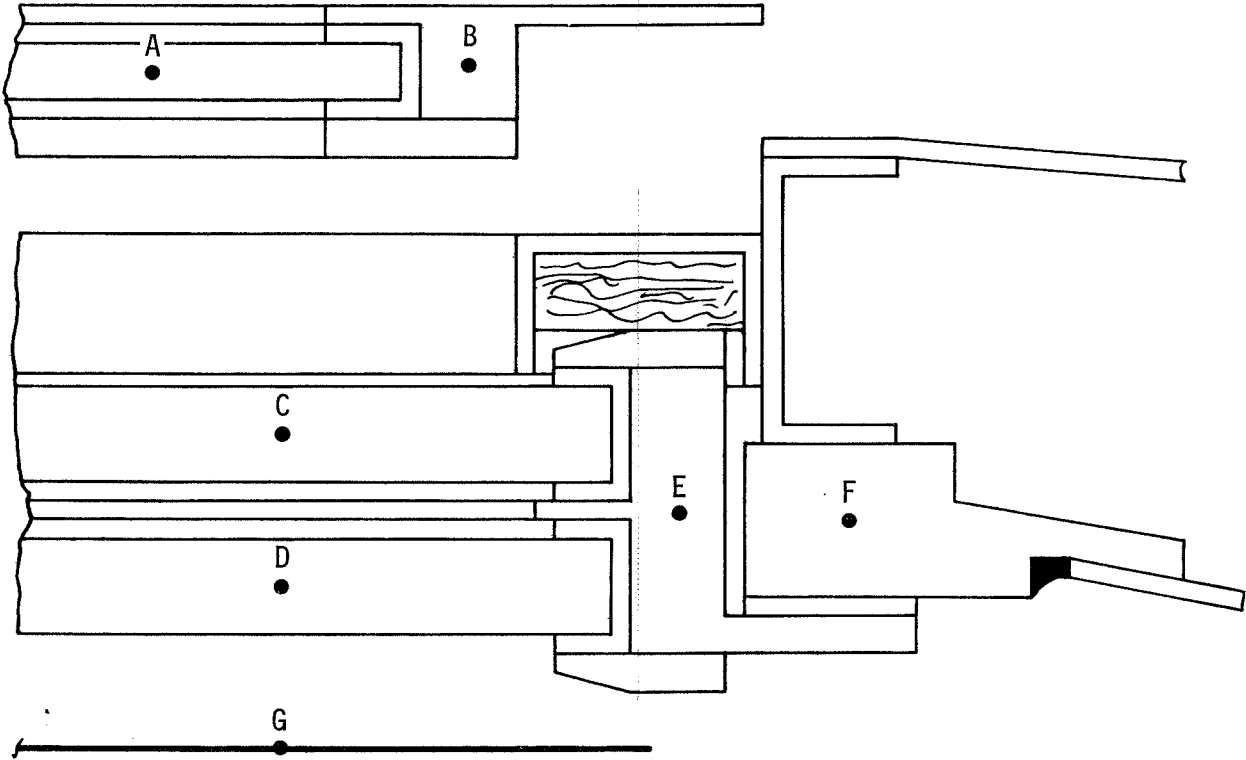


FIGURE 8 PRESSURE SHELL BOTTOM BULKHEAD
DIFFUSION NODE LOCATIONS

NOTE: SEE TABLE I-A FOR KEY
TO REFERENCE NODES



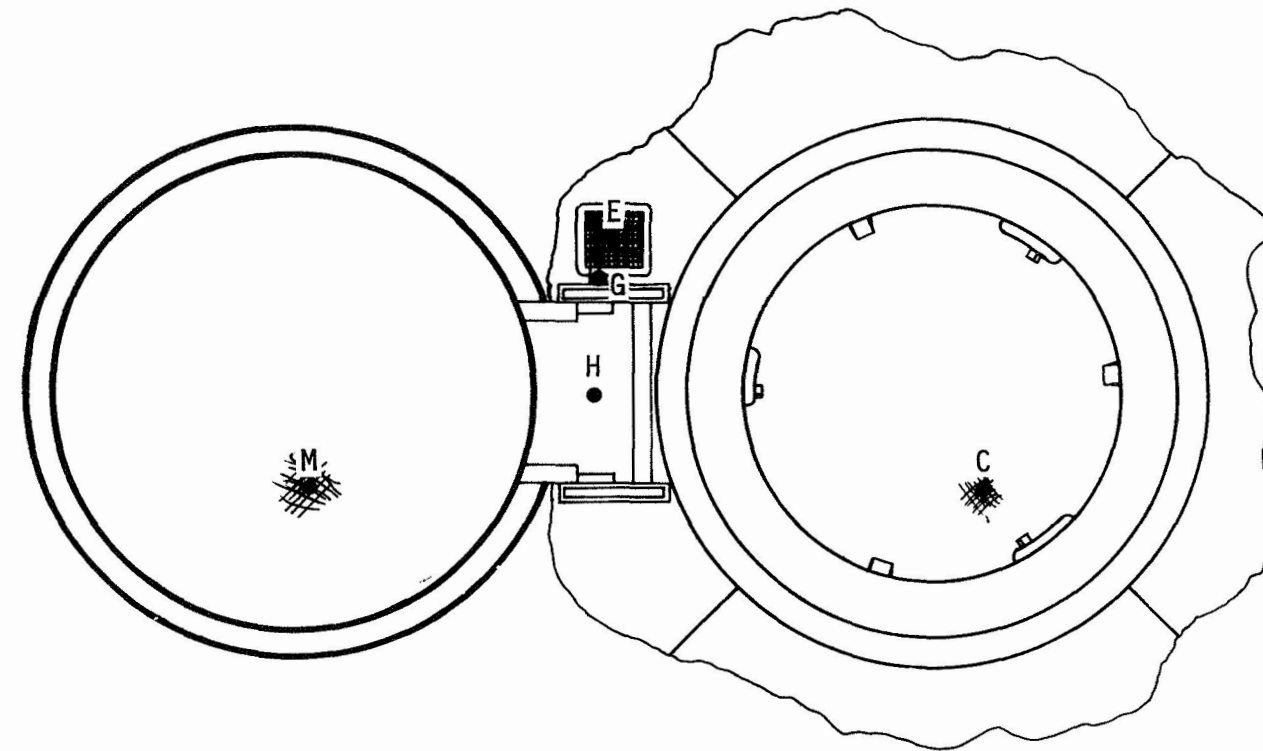
TOP VIEW OF THERMAL PANE STRUCTURE



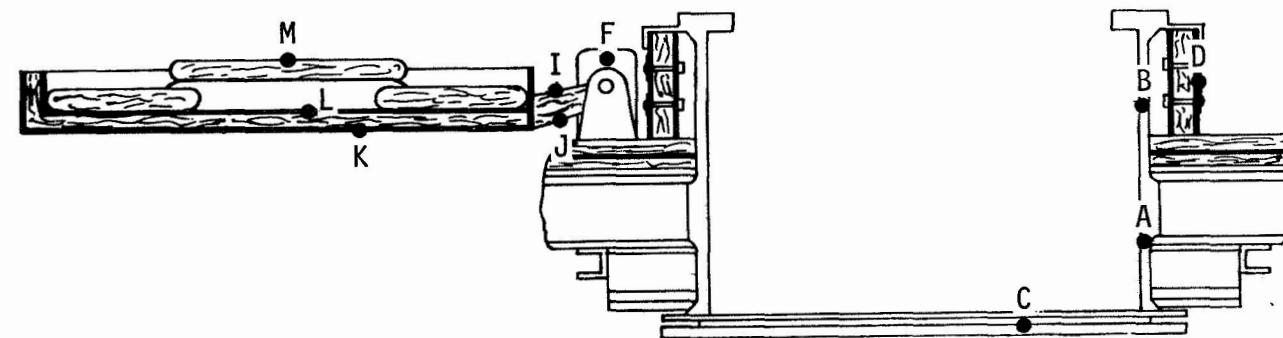
SIDE VIEW

FIGURE 9 TYPICAL WINDOW
NODE LOCATIONS

NOTE: SEE TABLE I-B FOR KEY
TO REFERENCE NODES

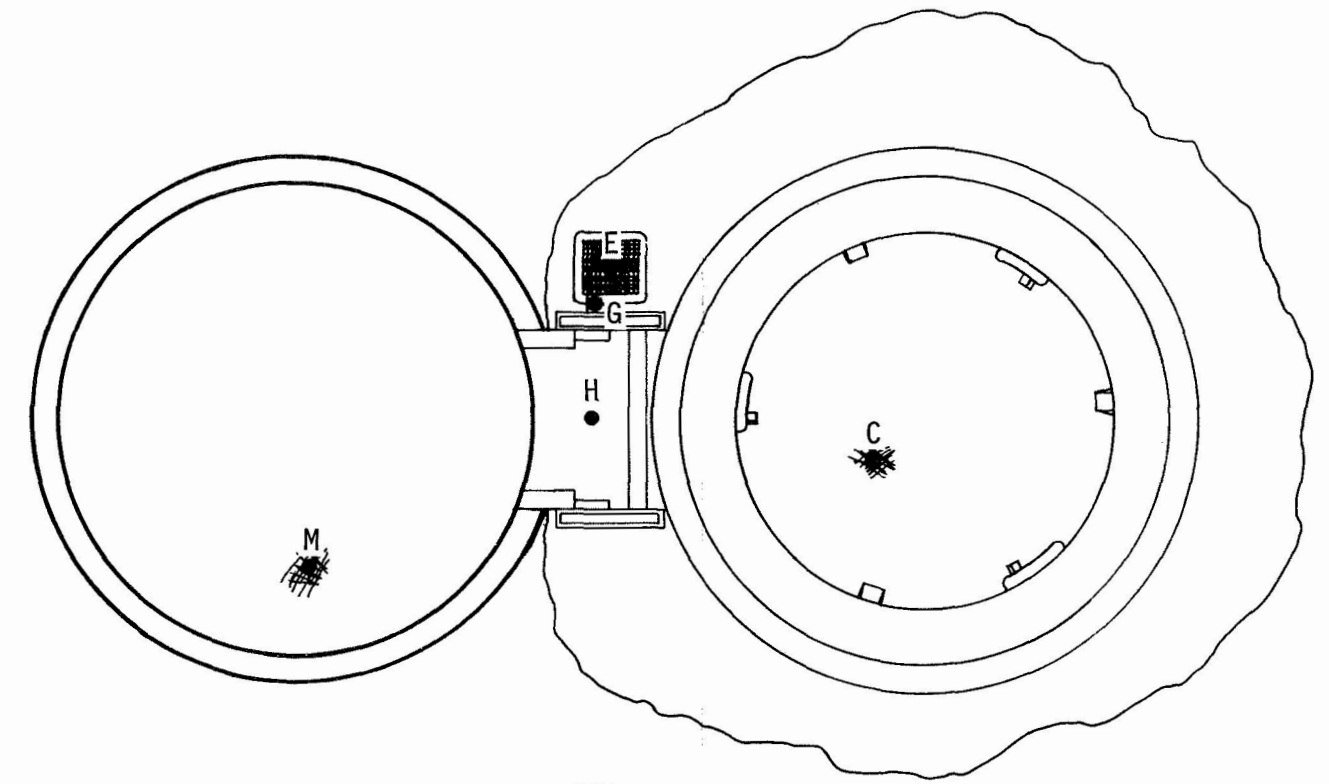


TOP VIEW

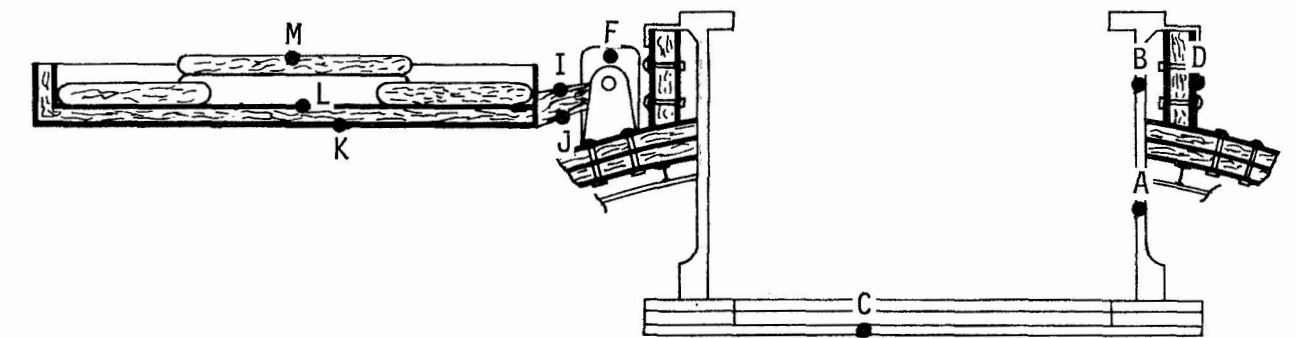


SIDE VIEW

BULKHEAD DOCKING HATCH



TOP VIEW



SIDE VIEW

SIDEWALL DOCKING HATCH

FIGURE 10 TYPICAL DOCKING HATCH
NODE LOCATIONS

NOTE: SEE TABLE I-C FOR KEY
TO REFERENCE NODES

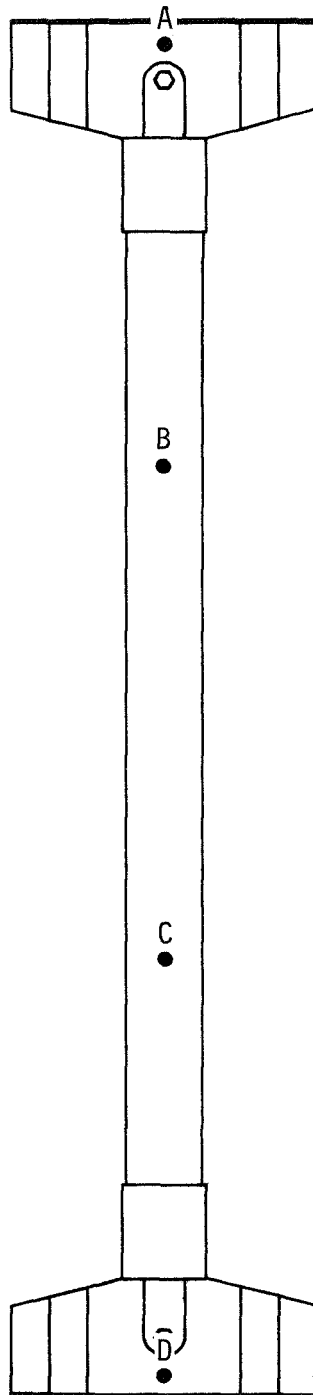


FIGURE 11 TYPICAL CENTER POST
NODE LOCATIONS

NOTE: SEE TABLE I-D FOR KEY
TO REFERENCE NODES

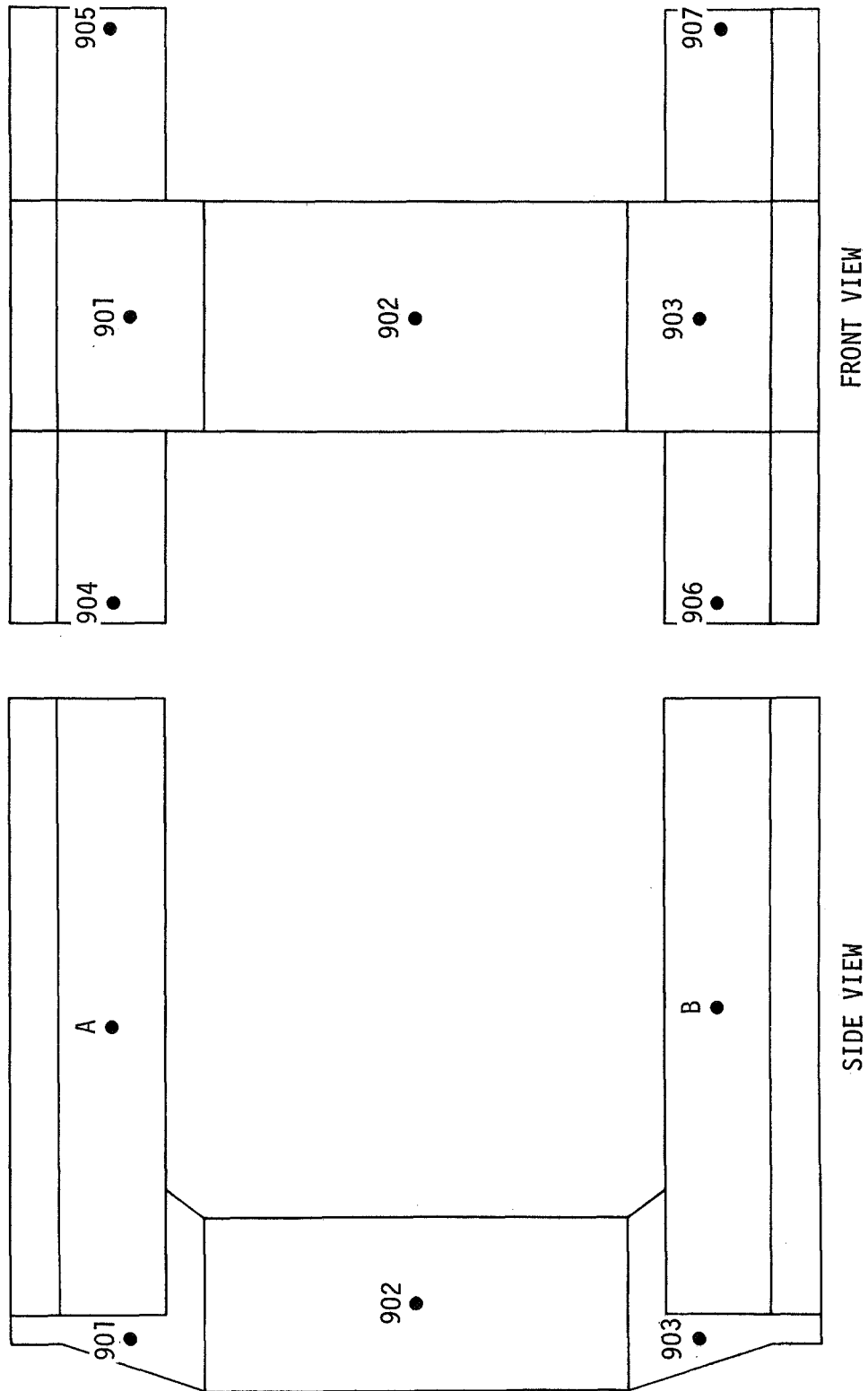


FIGURE 12 TEMPERATURE AND HUMIDITY CONTROL
PACKAGE (THCP) NODE LOCATIONS

NOTE: SEE TABLE I-E FOR KEY
TO REFERENCE NODES

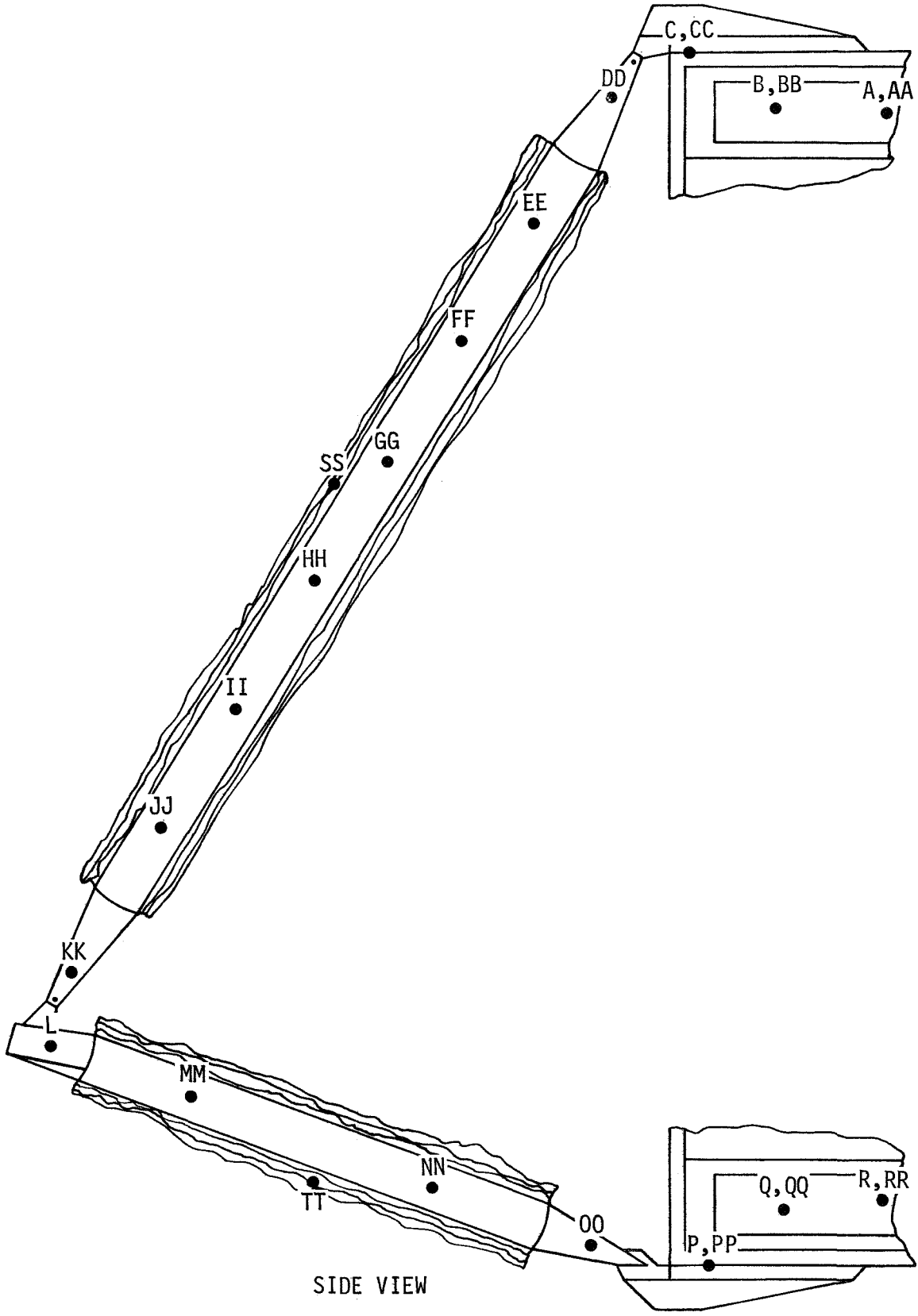
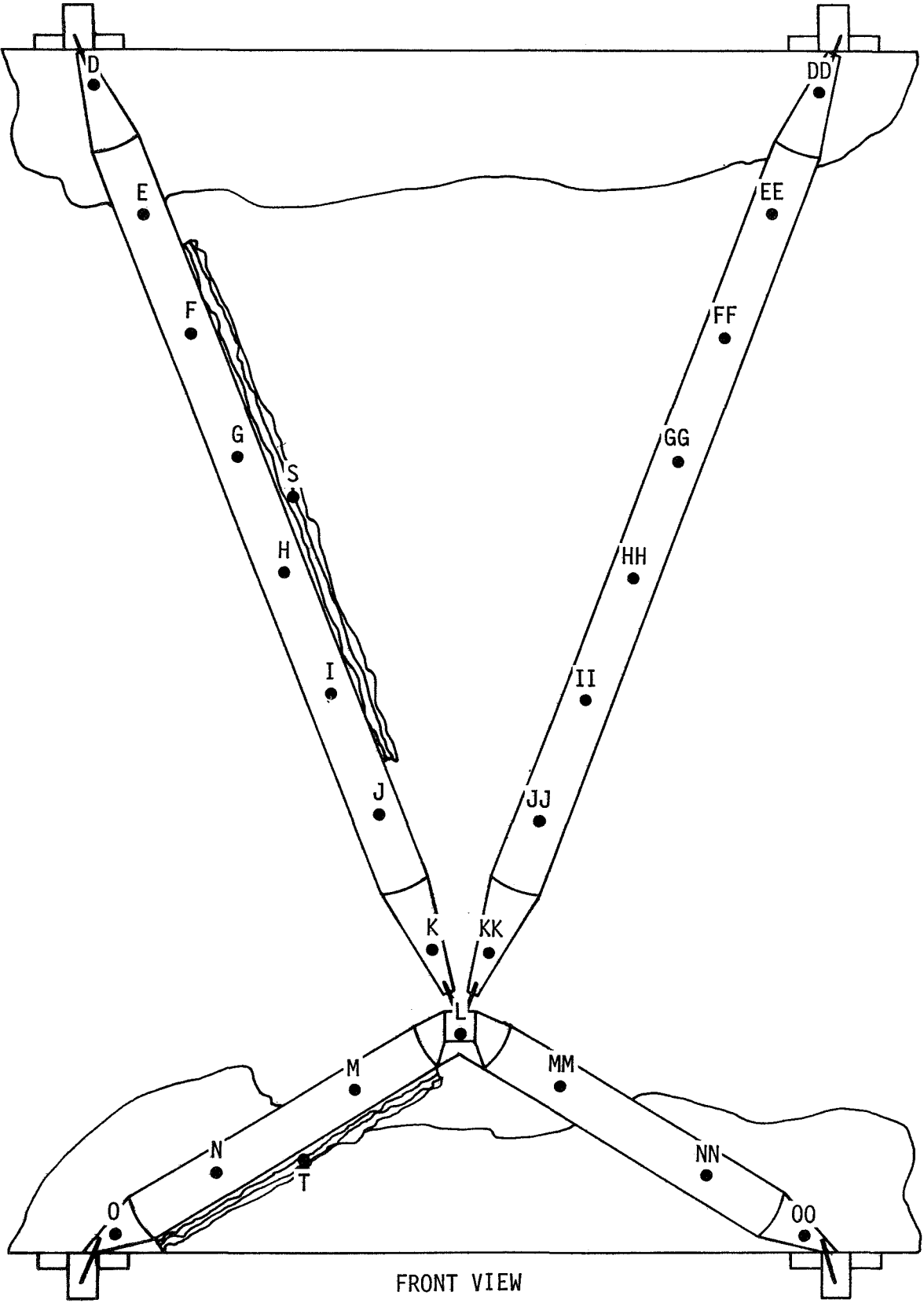


FIGURE 13 TYPICAL TRUSS SUPPORT
NODE LOCATIONS

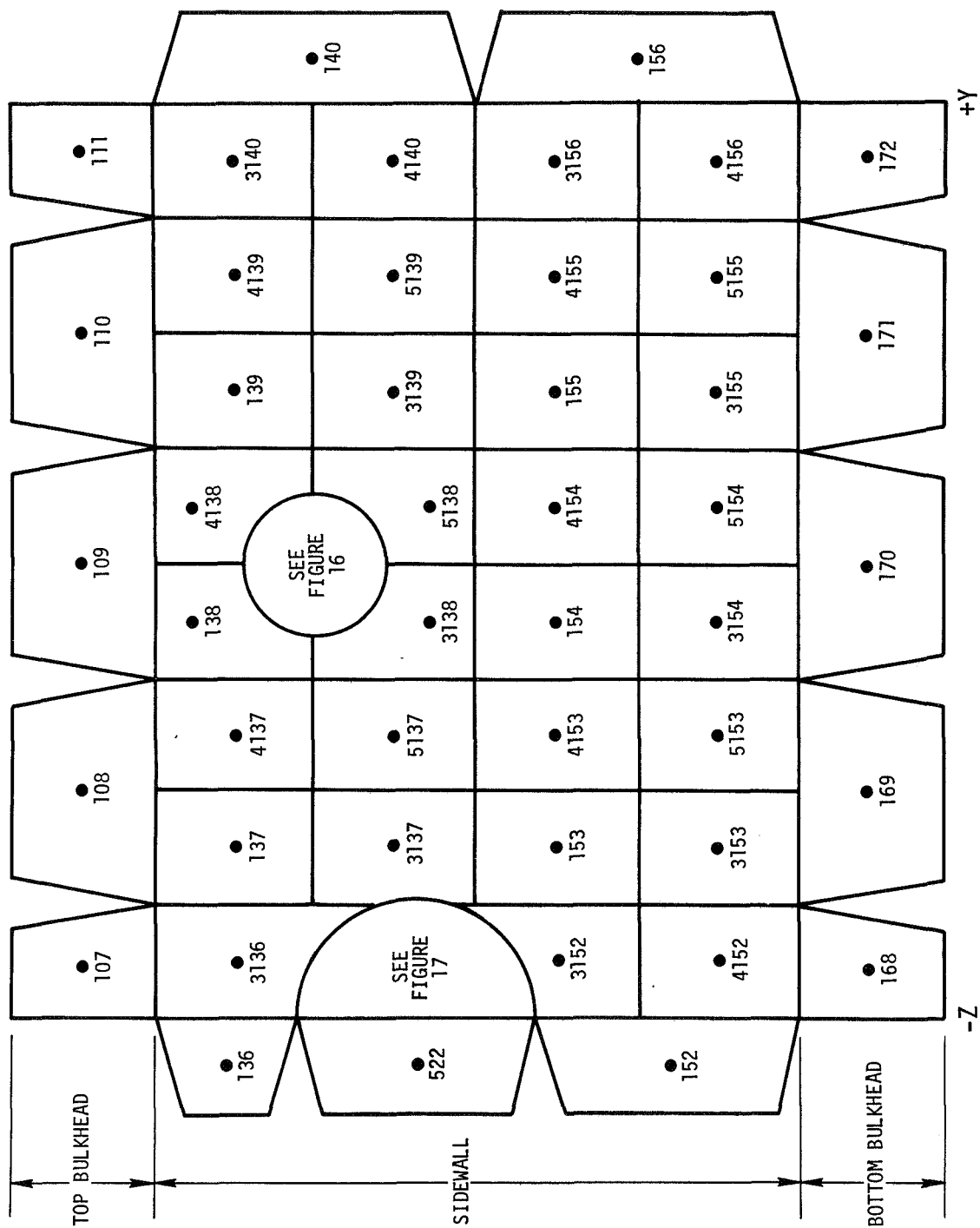


Figure 14: Pressure Shell Node Locations for Detailed Quarter Section Model

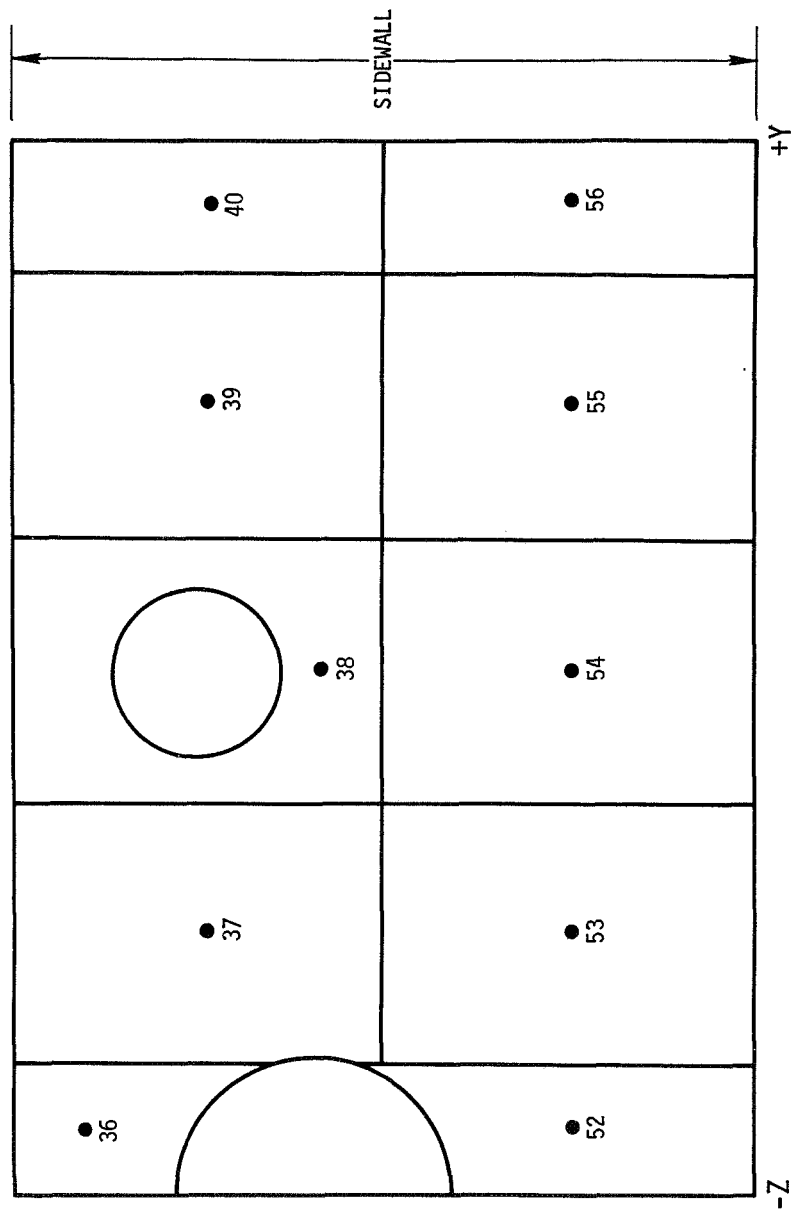


Figure 15: Meteoroid Shield Node Locations for Detailed Quarter Section Model

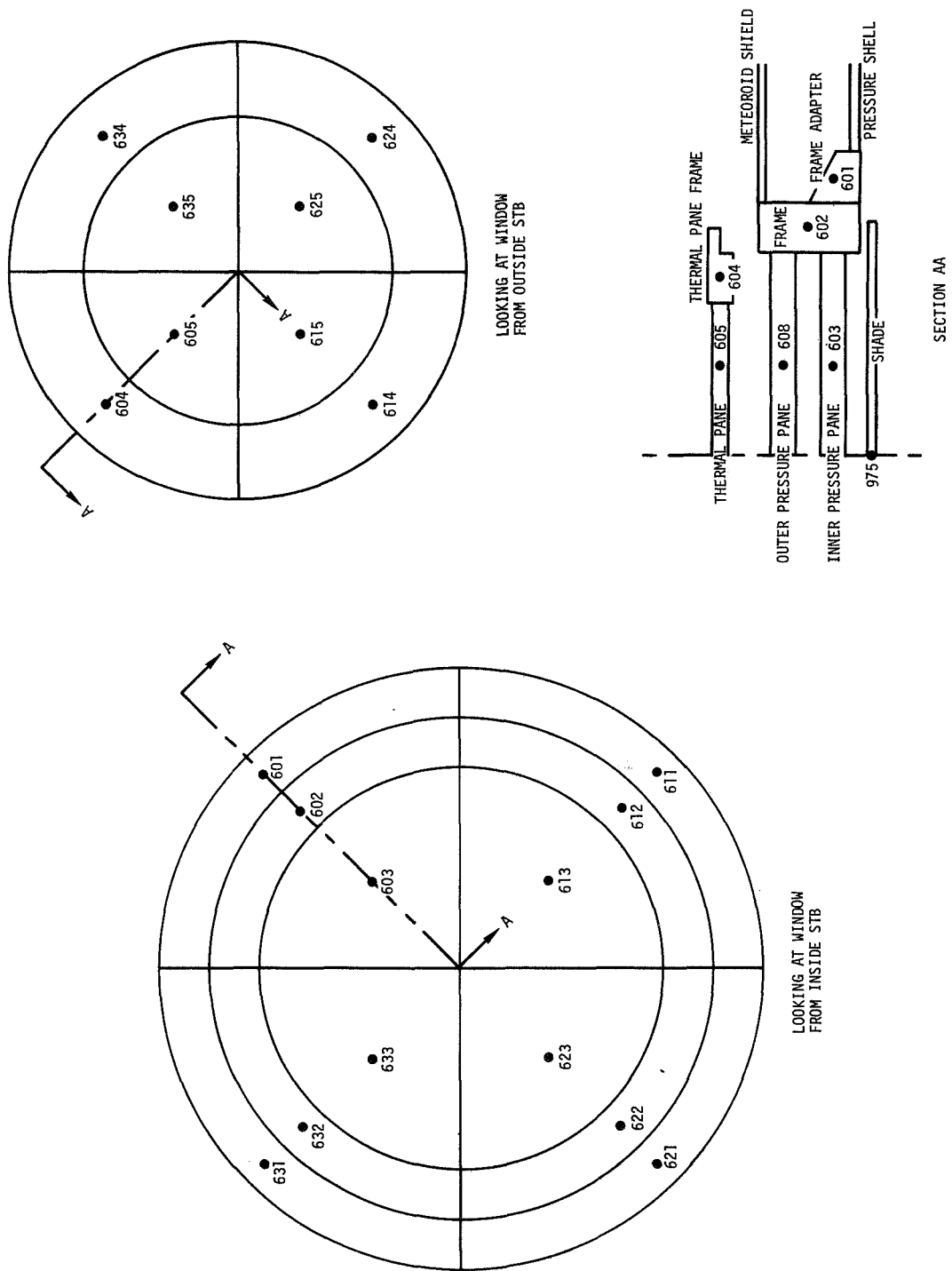


Figure 16: Window Node Locations for Detailed Quarter Section Model

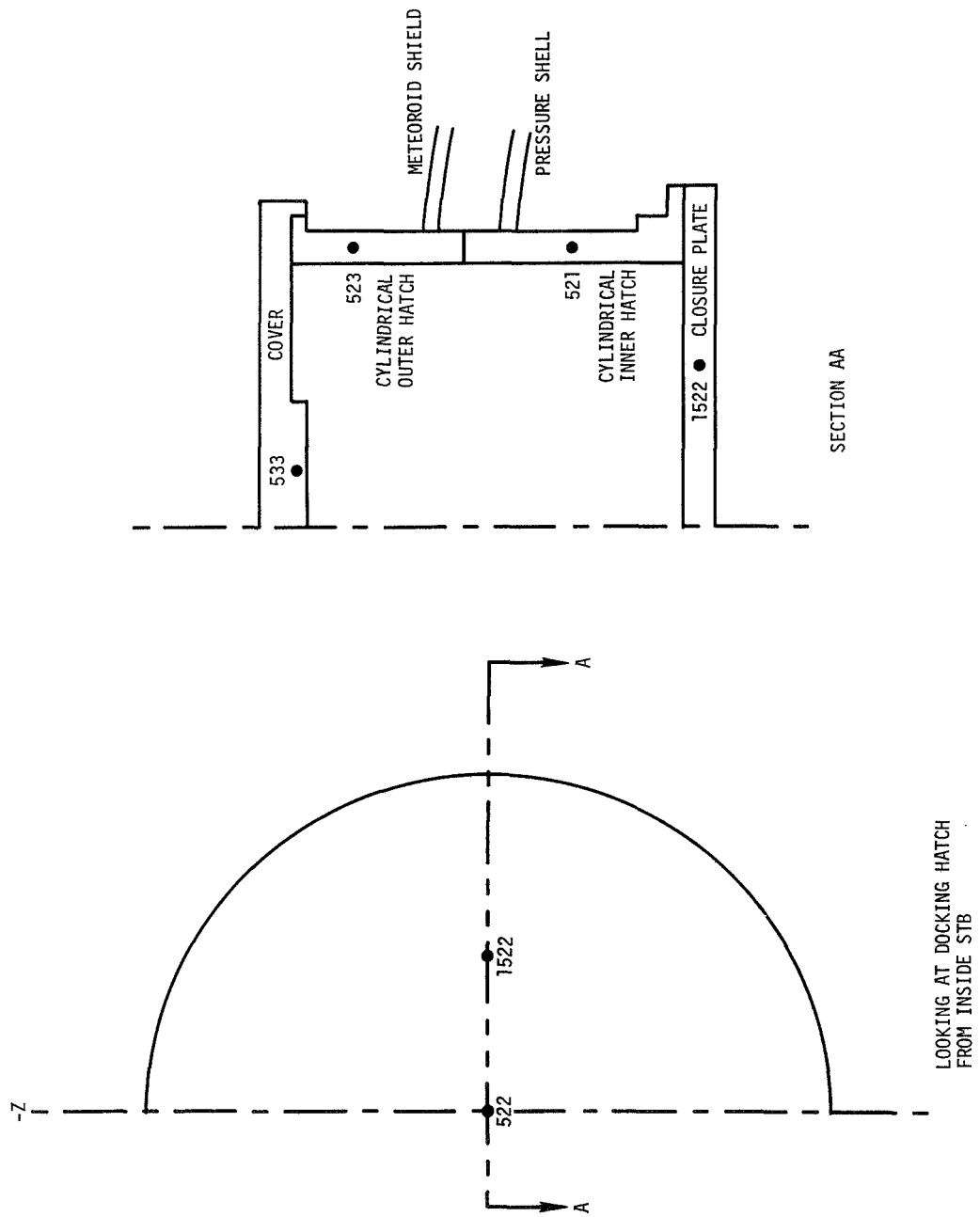


Figure 17: Docking Hatch Node Locations for Detailed Quarter Section Model

APPENDIX A

- 1) STB TMM CARD LISTING
- 2) STB TMM RC NETWORK LISTING (CSGDMP)

BCD 3THERMAL SPCS
BCD 9STB THERMAL MATH MODEL

END

BCD 3NODE DATA

REM HEAT CAPACITY - METEOROID SHIELD

1,70.,0.607,	2,70.,0.607,	3,70.,0.607,	4,70.,0.607	
5,70.,0.607,	6,70.,0.607,	7,70.,0.377,	8,70.,0.607	
9,70.,0.607,	10,70.,0.607,	11,70.,0.607,	12,70.,0.607	
13,70.,0.607,	14,70.,0.607,	15,70.,0.377,	16,70.,0.607,	17,70.,0.745
18,70.,0.745,	19,70.,0.745,	20,70.,0.745,	21,70.,0.745	
22,70.,0.745,	23,70.,0.745,	24,70.,0.745,	25,70.,0.789	
26,70.,0.789,	27,70.,0.789,	28,70.,0.789,	30,70.,1.116	
31,70.,1.355,	32,70.,1.355,	33,70.,1.355,	34,70.,1.116	
35,70.,1.355,	36,70.,0.545,	37,70.,1.355,	38,70.,1.116	
39,70.,1.355,	40,70.,1.355,	41,70.,1.355,	42,70.,1.116	
43,70.,1.355,	44,70.,0.545,	45,70.,1.355,	46,70.,1.388	
47,70.,1.388,	48,70.,1.388,	49,70.,1.388,	50,70.,1.388	
51,70.,1.388,	52,70.,1.388,	53,70.,1.388,	54,70.,1.388	
55,70.,1.388,	56,70.,1.388,	57,70.,1.388,	58,70.,1.388	
59,70.,1.388,	60,70.,1.388,	61,70.,1.388,	62,70.,0.607	
63,70.,0.607,	64,70.,0.607,	65,70.,0.607,	66,70.,0.607	
67,70.,0.607,	68,70.,0.607,	69,70.,0.607,	70,70.,0.607	
71,70.,0.607,	72,70.,0.607,	73,70.,0.607,	74,70.,0.607	
75,70.,0.607,	76,70.,0.607,	77,70.,0.607,	78,70.,0.745	
79,70.,0.745,	80,70.,0.745,	81,70.,0.745,	82,70.,0.745	
83,70.0, .745,	84,70.0, .745,	85,70.0, .745,	86,70.0, .789	
87,70.0, .789,	88,70.0, .789,	89,70.0, .789		
101, 70., 5.678,	102, 70., 7.404,	103, 70., 8.043,	104, 70., 7.404	
105, 70., 5.428,	106, 70., 7.404,	107, 70., 5.720,	108, 70., 7.404	
109, 70., 5.428,	110, 70., 7.404,	111, 70., 8.043,	112, 70., 7.404	
113, 70., 5.428,	114, 70., 7.654,	115, 70., 5.970,	116, 70., 7.654	
117, 70., 9.020,	118, 70., 9.659,	119, 70., 9.470,	120, 70.,10.073	
121, 70., 9.020,	122, 70., 9.659,	123, 70., 9.020,	124, 70.,10.823	
125, 70.,32.702,	126, 70.,33.000,	127, 70.,32.250,	128, 70.,32.666	
130, 70., 4.286,	131, 70., 5.788,	132, 70., 5.056,	133, 70., 5.788	
134, 70., 4.586,	135, 70., 5.656,	136, 70., 8.937,	137, 70., 7.361	
138, 70., 5.209,	139, 70., 6.761,	140, 70., 5.829,	141, 70., 6.761	
142, 70., 4.909,	143, 70., 6.279,	144, 70., 9.237,	145, 70., 6.688	
146, 70., 7.034,	147, 70., 7.034,	148, 70., 7.034,	149, 70., 7.034	
150, 70., 7.409,	151, 70., 7.334,	152, 70.,13.359,	153, 70., 8.577	
154, 70., 8.877,	155, 70., 8.577,	156, 70., 8.577,	157, 70., 8.577	

158, 70., 8.577,	159, 70., 8.577,	160, 70., 13.359,	161, 70., 7.034
162, 70., 7.705,	163, 70., 9.623,	164, 70., 10.263,	165, 70., 10.114
166, 70., 7.855,	167, 70., 9.923,	168, 70., 10.563,	169, 70., 10.714
170, 70., 8.005,	171, 70., 9.623,	172, 70., 10.263,	173, 70., 10.114
174, 70., 7.705,	175, 70., 9.623,	176, 70., 10.263,	177, 70., 10.114
178, 70., 9.482,	179, 70., 10.122,	180, 70., 9.482,	181, 70., 10.122
182, 70., 9.482,	183, 70., 10.122,	184, 70., 9.482,	185, 70., 10.122
186, 70., 35.854,	187, 70., 35.854,	188, 70., 36.495,	189, 70., 35.854
501, 70., 6.790,	502, 70., 21.850,	503, 70., 7.810,	522, 70., 21.850
CGS 521, 70., A300, K60			
523, 70., 7.810,	541, 70., 6.790,	542, 70., 21.850,	543, 70., 7.810
561, 70., 6.790,	562, 70., 21.850,	563, 70., 7.810	
REM HEAT CAPACITY-TRUSSES-CGS A326			
1001, 70., 1002, 70., 1003, 70., 1004, 70., 1012, 70., 1016, 70.,			
1017, 70., 1018, 70., 1021, 70., 1022, 70., 1023, 70., 1024, 70.,			
1035, 70., 1036, 70., 1037, 70., 1051, 70., 1052, 70., 1053, 70.,			
1054, 70., 1062, 70., 1066, 70., 1067, 70., 1068, 70., 1071, 70.,			
1072, 70., 1073, 70., 1074, 70., 1085, 70., 1086, 70., 1087, 70.,			
1101, 70., 1102, 70., 1103, 70., 1104, 70., 1112, 70., 1116, 70.,			
1117, 70., 1118, 70., 1121, 70., 1122, 70., 1123, 70., 1124, 70.,			
1135, 70., 1136, 70., 1137, 70., 1151, 70., 1152, 70., 1153, 70.,			
1154, 70., 1162, 70., 1166, 70., 1167, 70., 1168, 70., 1171, 70.,			
1172, 70., 1173, 70., 1174, 70., 1185, 70., 1186, 70., 1187, 70.,			
REM HEAT CAPACITY-TRUSSES-CGS A324			
1005, 70., 1006, 70., 1007, 70., 1008, 70., 1009, 70., 1010, 70.,			
1011, 70., 1013, 70., 1014, 70., 1015, 70., 1025, 70., 1026, 70.,			
1027, 70., 1028, 70., 1029, 70., 1030, 70., 1031, 70., 1032, 70.,			
1033, 70., 1034, 70., 1055, 70., 1056, 70., 1057, 70., 1058, 70.,			
1059, 70., 1060, 70., 1061, 70., 1063, 70., 1064, 70., 1065, 70.,			
1075, 70., 1076, 70., 1077, 70., 1078, 70., 1079, 70., 1080, 70.,			
1081, 70., 1082, 70., 1083, 70., 1084, 70., 1105, 70., 1106, 70.,			
1107, 70., 1108, 70., 1109, 70., 1110, 70., 1111, 70., 1113, 70.,			
1114, 70., 1115, 70., 1125, 70., 1126, 70., 1127, 70., 1128, 70.,			
1129, 70., 1130, 70., 1131, 70., 1132, 70., 1133, 70., 1134, 70.,			
1155, 70., 1156, 70., 1157, 70., 1158, 70., 1159, 70., 1160, 70.,			
1161, 70., 1163, 70., 1164, 70., 1165, 70., 1175, 70., 1176, 70.,			
1177, 70., 1178, 70., 1179, 70., 1180, 70., 1181, 70., 1182, 70.,			
1183, 70., 1184, 70.			
685, 70., 0.687, 686, 70., 1.167, 688, 70., 3.275, 683, 70., 3.275			
682, 70., 3.831, 681, 70., 2.488, 675, 70., 0.687, 676, 70., 1.167			
678, 70., 3.275, 673, 70., 3.275, 672, 70., 3.831, 671, 70., 2.488			

644,70.,0.687,645,70.,1.167,648,70.,3.275,643,70.,3.275
 642,70.,3.831,641,70.,2.488,654,70.,0.687,655,70.,1.167
 658,70.,3.275,653,70.,3.275,652,70.,3.831,651,70.,2.488
 664,70.,0.687,665,70.,1.167,668,70.,3.275,663,70.,3.275
 662,70.,3.831,661,70.,2.488,604,70.,0.687,605,70.,1.167
 608,70.,3.275,603,70.,3.275,602,70.,3.831,601,70.,2.488
 901,70.,1.916,902,70.,4.500,903,70.,1.916,904,70.,4.454,905,70.,4.454
 906,70.,4.454,907,70.,4.454
 689,70.,-1.,690,70.,-1.,687,70.,-1.
 679,70.,-1.,680,70.,-1.,677,70.,-1.
 649,70.,-1.,650,70.,-1.,647,70.,-1.
 659,70.,-1.,660,70.,-1.,657,70.,-1.
 669,70.,-1.,670,70.,-1.,667,70.,-1.
 609,70.,-1.,610,70.,-1.,607,70.,-1.

REM HEAT CAPACITY-HARD POINTS AND FEED THRS

301,70.,-1.,	302,70.,-1.,	303,70.,-1.,	304,70.,-1.
305,70.,-1.,	306,70.,-1.,	307,70.,-1.,	308,70.,-1.,
309,70.,-1.,	310,70.,-1.,	311,70.,-1.,	312,70.,-1.,
313,70.,-1.,	314,70.,-1.,	315,70.,-1.,	316,70.,-1.,
317,70.,-1.,	318,70.,-1.,	319,70.,-1.,	320,70.,-1.,
321,70.,-1.,	322,70.,-1.,	323,70.,-1.,	324,70.,-1.,
325,70.,-1.,	326,70.,-1.,	327,70.,-1.,	328,70.,-1.,
329,70.,-1.,	330,70.,-1.,	331,70.,-1.,	332,70.,-1.,
333,70.,-1.,	334,70.,-1.,	335,70.,-1.,	336,70.,-1.,
337,70.,-1.,	338,70.,-1.,	339,70.,-1.,	340,70.,-1.,
341,70.,-1.,	342,70.,-1.,	343,70.,-1.,	344,70.,-1.,
345,70.,-1.,	346,70.,-1.,	347,70.,-1.,	348,70.,-1.,
349,70.,-1.,	350,70.,-1.,	351,70.,-1.,	352,70.,-1.,
353,70.,-1.,	354,70.,-1.,	355,70.,-1.,	356,70.,-1.,
357,70.,-1.,	358,70.,-1.,	359,70.,-1.,	360,70.,-1.,
361,70.,-1.,	362,70.,-1.,	363,70.,-1.,	364,70.,-1.,
365,70.,-1.,	366,70.,-1.,	367,70.,-1.,	368,70.,-1.,
369,70.,-1.,	370,70.,-1.,	371,70.,-1.,	372,70.,-1.,
373,70.,-1.,	374,70.,-1.,	375,70.,-1.,	376,70.,-1.,
377,70.,-1.,	378,70.,-1.,	379,70.,-1.,	380,70.,-1.,
381,70.,-1.,	382,70.,-1.,	383,70.,-1.,	384,70.,-1.,
385,70.,-1.,	386,70.,-1.,	387,70.,-1.,	388,70.,-1.,
389,70.,-1.,	451,70.,-1.,	452,70.,-1.,	453,70.,-1.,
454,70.,-1.,			

REM HEAT CAPACITY - CENTER POSTS

455,70.,-1.,	456,70.,-1.,	457,70.,-1.,	458,70.,-1.,	459,70.,-1.
460,70.,-1.,	461,70.,-1.,	462,70.,-1.,	463,70.,-1.,	464,70.,-1.
465,70.,-1.,	466,70.,-1.			

REM HEAT CAPACITY-DOCKING PORTS

504,70.,-1.,	505,70.,-1.,	506,70.,-1.
507,70.,-1.,	508,70.,-1.,	509,70.,-1.,
510,70.,-1.,	511,70.,-1.,	512,70.,-1.,
513,70.,-1.,	514,70.,-1.,	515,70.,-1.,
516,70.,-1.,	517,70.,-1.,	518,70.,-1.,
519,70.,-1.,	520,70.,-1.,	521,70.,-1.,
522,70.,-1.,	523,70.,-1.,	524,70.,-1.,
525,70.,-1.,	526,70.,-1.,	527,70.,-1.,
528,70.,-1.,	529,70.,-1.,	530,70.,-1.,
531,70.,-1.,	532,70.,-1.,	533,70.,-1.,
534,70.,-1.,	535,70.,-1.,	536,70.,-1.,
537,70.,-1.,	538,70.,-1.,	539,70.,-1.,
540,70.,-1.,	541,70.,-1.,	542,70.,-1.,
543,70.,-1.,	544,70.,-1.,	545,70.,-1.,
546,70.,-1.,	547,70.,-1.,	548,70.,-1.,
549,70.,-1.,	550,70.,-1.,	551,70.,-1.

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552,70.,-1., 553,70.,-1., 564,70.,-1., 565,70.,-1., 566,70.,-1.
567,70.,-1., 568,70.,-1., 569,70.,-1., 570,70.,-1., 571,70.,-1.
572,70.,-1., 573,70.,-1.
REM HEAT CAPACITY - ENVIRONMENT NODES
-401, 70.,
-402, 70.,
-403, 70.,
-404, 70.,
-900,-320.,
-1019,70.,0., -1020,70.,0., -1038,70.,0., -1039,70.,0.
-1069,70.,0., -1070,70.,0., -1088,70.,0., -1089,70.,0.
-1119,70.,0., -1120,70.,0., -1138,70.,0., -1139,70.,0.
-1169,70.,0., -1170,70.,0., -1188,70.,0., -1189,70.,0.
END
BCD 3CONDUCTOR DATA
REM CONDUCTORS FROM HARD POINTS TO PRESSURE SHELL NODES
14, 308, 107, 2.980-04, 15, 308, 108, 1.720-04
12, 307, 106, 1.720-04, 13, 307, 107, 2.980-04
16, 309, 108, 1.720-04, 17, 309, 109, 1.720-04
10, 306, 105, 1.720-04, 11, 306, 106, 1.720-04
CGS 1, 301, 101, A300, K61 $
2, 302, 101, 1.720-04, 3, 302, 102, 1.720-04
4, 303, 102, 1.720-04, 5, 303, 103, 1.720-04
20, 311, 110, 1.720-04, 21, 311, 111, 1.720-04
18, 310, 109, 1.720-04, 19, 310, 110, 1.720-04
6, 304, 103, 1.720-04, 7, 304, 104, 1.720-04
8, 305, 104, 1.720-04, 9, 305, 105, 1.720-04
22, 312, 111, 1.720-04, 23, 312, 112, 1.720-04
24, 313, 112, 1.720-04, 25, 313, 113, 1.720-04
26, 314, 113, 1.720-04, 27, 314, 114, 1.720-04
28, 315, 114, 1.720-04, 29, 315, 115, 2.980-04
30, 316, 115, 2.980-04, 31, 316, 116, 1.720-04
32, 301, 116, 1.720-04, 33, 325, 125, 1.870-04
34, 326, 126, 1.870-04, 35, 327, 127, 1.870-04
36, 328, 128, 1.870-04, 50, 362, 162, 1.720-04
51, 363, 162, 1.720-04, 52, 363, 163, 1.720-04
53, 364, 163, 1.720-04, 54, 364, 164, 1.720-04
55, 365, 164, 1.720-04, 56, 365, 165, 1.720-04
57, 366, 165, 1.720-04, 58, 366, 166, 1.720-04
59, 367, 166, 1.720-04, 60, 367, 167, 1.720-04
61, 368, 167, 1.720-04, 62, 368, 168, 1.720-04

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63, 369, 168,	1.720-04,	64, 369, 169,	1.720-04
65, 370, 169,	1.720-04,	66, 370, 170,	1.720-04
67, 371, 170,	1.720-04,	68, 371, 171,	1.720-04
69, 372, 171,	1.720-04,	70, 372, 172,	1.720-04
71, 373, 172,	1.720-04,	72, 373, 173,	1.720-04
73, 374, 173,	1.720-04,	74, 374, 174,	1.720-04
75, 375, 174,	1.720-04,	76, 375, 175,	1.720-04
77, 376, 175,	1.720-04,	78, 376, 176,	1.720-04
79, 377, 176,	1.720-04,	80, 377, 177,	1.720-04
81, 362, 177,	1.720-04,	82, 386, 186,	1.870-04
83, 387, 187,	1.870-04,	84, 388, 188,	1.870-04
85, 389, 189,	1.870-04		

REM CONDUCTION- SHIELD TO PRESSURE SHELL

101, 1, 101, 0.,	102, 2, 102, 0.,	103, 3, 103, 0.
104, 4, 104, 0.,	105, 5, 105, 0.,	106, 6, 106, 0.
107, 7, 107, 0.,	108, 8, 108, 0.,	109, 9, 109, 0.
110, 10, 110, 0.,	111, 11, 111, 0.,	112, 12, 112, 0.
113, 13, 113, 0.,	114, 14, 114, 0.,	115, 15, 115, 0.
116, 16, 116, 0.,	117, 17, 117, 0.,	118, 18, 118, 0.
119, 19, 119, 0.,	120, 20, 120, 0.,	121, 21, 121, 0.
122, 22, 122, 0.,	123, 23, 123, 0.,	124, 24, 124, 0.
125, 25, 125, 0.,	126, 26, 126, 0.,	127, 27, 127, 0.
128, 28, 128, 0.		

REM CONDUCTION - SHIELD TO SIDE WALL

	130, 30, 130, 0.,	131, 31, 131, 0.
132, 32, 132, 0.,	133, 33, 133, 0.,	134, 34, 134, 0.
135, 35, 135, 0.,	136, 36, 136, 0.,	137, 37, 137, 0.
138, 38, 138, 0.,	139, 39, 139, 0.,	140, 40, 140, 0.
141, 41, 141, 0.,	142, 42, 142, 0.,	143, 43, 143, 0.
144, 44, 144, 0.,	145, 45, 145, 0.,	146, 46, 146, 0.
147, 47, 147, 0.,	148, 48, 148, 0.,	149, 49, 149, 0.
150, 50, 150, 0.,	151, 51, 151, 0.,	152, 52, 152, 0.
153, 53, 153, 0.,	154, 54, 154, 0.,	155, 55, 155, 0.
156, 56, 156, 0.,	157, 57, 157, 0.,	158, 58, 158, 0.
159, 59, 159, 0.,	160, 60, 160, 0.,	161, 61, 161, 0.

REM CONDUCTION - SHIELD TO BOTTOM BULKHEAD

162, 62, 162, 0.		
	163, 63, 163, 0.,	164, 64, 164, 0.
165, 65, 165, 0.,	166, 66, 166, 0.,	167, 67, 167, 0.
168, 68, 168, 0.,	169, 69, 169, 0.,	170, 70, 170, 0.
171, 71, 171, 0.,	172, 72, 172, 0.,	173, 73, 173, 0.

174,	74,	174,	0.,	175,	75,	175,	0.,	176,	76,	176,	0.
177,	77,	177,	0.,	178,	78,	178,	0.,	179,	79,	179,	0.
180,	80,	180,	0.,	181,	81,	181,	0.,	182,	82,	182,	0.
183,	83,	183,	0.,	184,	84,	184,	0.,	185,	85,	185,	0.
186,	86,	186,	0.,	187,	87,	187,	0.,	188,	88,	188,	0.
189,	89,	189,	0.								

REM CONDUCTION - LATERAL CONDUCTION IN PRESSURE SHELL

				705,	125,	126,	1.870-04
706,	126,	127,	1.870-04,	707,	127,	128,	1.870-04
708,	128,	125,	1.870-04,	709,	125,	117,	4.820-04
710,	126,	118,	4.820-04,	711,	126,	119,	4.820-04
712,	127,	120,	4.820-04,	713,	127,	121,	4.820-04
714,	128,	122,	4.820-04,	715,	128,	123,	4.820-04
716,	125,	124,	4.820-04,	717,	124,	117,	1.900-04
718,	117,	118,	1.900-04,	719,	118,	119,	1.900-04
720,	119,	120,	1.900-04,	721,	120,	121,	1.900-04
722,	121,	122,	1.900-04,	723,	122,	123,	1.900-04
724,	123,	124,	1.900-04,	725,	124,	116,	2.700-04
726,	117,	101,	2.700-04,	727,	117,	102,	2.700-04
728,	118,	103,	2.700-04,	729,	118,	104,	2.700-04
730,	119,	105,	2.700-04,	731,	119,	106,	2.700-04
732,	120,	107,	4.600-04,	733,	120,	108,	2.700-04
734,	121,	109,	2.700-04,	735,	121,	110,	2.700-04
736,	122,	111,	2.700-04,	737,	122,	112,	2.700-04
738,	123,	113,	2.700-04,	739,	123,	114,	2.700-04
740,	124,	115,	4.600-04,	741,	115,	116,	2.980-04
742,	116,	101,	1.720-04,	743,	101,	102,	1.720-04
744,	102,	103,	1.720-04,	745,	103,	104,	1.720-04
746,	104,	105,	1.720-04,	747,	105,	106,	1.720-04
748,	106,	107,	2.980-04,	749,	107,	108,	2.980-04
750,	108,	109,	1.720-04,	751,	109,	110,	1.720-04
752,	110,	111,	1.720-04,	753,	111,	112,	1.720-04
754,	112,	113,	1.720-04,	755,	113,	114,	1.720-04
756,	114,	115,	2.980-04,	757,	115,	144,	4.230-04
758,	116,	145,	1.130-04,	759,	101,	130,	3.000-04
760,	102,	131,	1.130-04,	761,	103,	132,	1.130-04
762,	104,	133,	1.130-04,	763,	105,	134,	3.000-04
764,	106,	135,	1.130-04,	765,	107,	136,	4.230-04
766,	108,	137,	1.130-04,	767,	109,	138,	3.000-04
768,	110,	139,	1.438-04,	769,	111,	140,	1.438-04
770,	112,	141,	1.438-04,	771,	113,	142,	3.170-04

772,	114,	143,	1.130-04,	773,	143,	144,	2.800-04
774,	144,	145,	2.800-04,	775,	145,	130,	2.150-04
776,	130,	131,	2.150-04,	777,	131,	132,	1.400-04
778,	132,	133,	1.400-04,	779,	133,	134,	2.150-04
780,	134,	135,	2.150-04,	781,	135,	136,	2.800-04
782,	136,	137,	2.800-04,	783,	137,	138,	2.150-04
784,	138,	139,	2.130-04,	785,	139,	140,	1.730-04
786,	140,	141,	1.730-04,	787,	141,	142,	2.450-04
788,	142,	143,	2.130-04,	789,	143,	159,	9.440-05
790,	144,	160,	2.490-04,	791,	145,	161,	9.440-05
792,	146,	130,	1.650-04,	793,	131,	147,	9.440-05
794,	132,	148,	9.440-05,	795,	133,	149,	9.440-05
796,	150,	134,	1.650-04,	797,	151,	135,	9.440-05
798,	152,	136,	2.490-04,	799,	153,	137,	9.440-05
800,	154,	138,	1.650-04,	801,	155,	139,	1.160-04
802,	156,	140,	1.160-04,	803,	157,	141,	1.160-04
804,	158,	142,	1.980-04,	805,	158,	159,	1.550-04
806,	159,	160,	1.430-04,	807,	160,	161,	1.430-04
808,	161,	146,	1.430-04,	809,	146,	147,	1.430-04
810,	147,	148,	1.430-04,	811,	148,	149,	1.430-04
812,	149,	150,	1.430-04,	813,	150,	151,	1.430-04
814,	151,	152,	1.430-04,	815,	152,	153,	1.430-04
816,	153,	154,	1.430-04,	817,	154,	155,	1.550-04
818,	155,	156,	1.710-04,	819,	156,	157,	1.710-04
820,	157,	158,	1.710-04,	821,	158,	174,	1.438-04
822,	159,	175,	1.130-04,	823,	160,	176,	1.130-04
824,	161,	177,	1.130-04,	825,	146,	162,	1.130-04
826,	147,	163,	1.130-04,	827,	148,	164,	1.130-04
828,	149,	165,	1.130-04,	829,	150,	166,	1.130-04
830,	151,	167,	1.130-04,	831,	152,	168,	1.130-04
832,	153,	169,	1.130-04,	833,	154,	170,	1.130-04
834,	155,	171,	1.438-04,	835,	156,	172,	1.438-04
836,	157,	173,	1.438-04,	837,	173,	174,	1.720-04
838,	174,	175,	1.720-04,	839,	175,	176,	1.720-04
840,	176,	177,	1.720-04,	841,	177,	162,	1.720-04
842,	162,	163,	1.720-04,	843,	163,	164,	1.720-04
844,	164,	165,	1.720-04,	845,	165,	166,	1.720-04
846,	166,	167,	1.720-04,	847,	167,	168,	1.720-04
848,	168,	169,	1.720-04,	849,	169,	170,	1.720-04
850,	170,	171,	1.720-04,	851,	171,	172,	1.720-04
852,	172,	173,	1.720-04,	853,	173,	183,	2.700-04

854, 174, 184,	2.700-04,	855, 175, 184,	2.700-04
856, 176, 185,	2.700-04,	857, 177, 185,	2.700-04
858, 162, 178,	2.700-04,	859, 163, 178,	2.700-04
860, 164, 179,	2.700-04,	861, 165, 179,	2.700-04
862, 166, 180,	2.700-04,	863, 167, 180,	2.700-04
864, 168, 181,	2.700-04,	865, 169, 181,	2.700-04
866, 170, 182,	2.700-04,	867, 171, 182,	2.700-04
868, 172, 183,	2.700-04,	869, 183, 184,	1.900-04
870, 184, 185,	1.900-04,	871, 185, 178,	1.900-04
872, 178, 179,	1.900-04,	873, 179, 180,	1.900-04
874, 180, 181,	1.900-04,	875, 181, 182,	1.900-04
876, 182, 183,	1.900-04,	877, 183, 189,	4.820-04
878, 184, 189,	4.820-04,	879, 185, 186,	4.820-04
880, 186, 178,	4.820-04,	881, 187, 179,	4.820-04
882, 187, 180,	4.820-04,	883, 188, 181,	4.820-04
884, 188, 182,	4.820-04,	885, 188, 189,	1.870-04
886, 189, 186,	1.870-04,	887, 186, 187,	1.870-04
888, 187, 188,	1.870-04		

REM CONDUCTION - CENTER POSTS

		901, 451, 501,	2.410-04
905, 454, 561,	2.410-04,	911, 455, 501,	2.410-04
915, 458, 561,	2.410-04,	921, 459, 501,	2.410-04
925, 462, 561,	2.410-04,	931, 463, 501,	2.410-04
935, 466, 561,	2.410-04		

REM CONDUCTION - EXTERNAL TRUSSES TO METEOROID SHIELD THRU MLI

		1202,1001, 102,	9.200-05
1203,1001, 101,	9.200-05,	1205,1002, 102,	3.270-04
1206,1002, 101,	3.270-04,	1208,1003, 102,	3.270-04
1209,1003, 101,	3.270-04,	1237,1016, 163,	3.270-04
1238,1016, 162,	3.270-04,	1240,1017, 163,	3.270-04
1241,1017, 162,	3.270-04,	1244,1021, 117,	3.800-04
1245,1021, 124,	3.800-04,	1246,1021, 101,	9.200-05
1247,1021, 116,	9.200-05,	1249,1022, 101,	3.270-04
1250,1022, 116,	3.270-04,	1278,1035, 162,	3.270-04
1279,1035, 177,	3.270-04,	1281,1036, 162,	3.270-04
1282,1036, 177,	3.270-04,	1284,1037, 178,	3.800-04
1285,1037, 185,	3.800-04,	1290,1018, 163,	9.200-05
1291,1018, 162,	9.200-05,	1292,1023, 101,	3.270-04
1293,1023, 116,	3.270-04,	1294,1037, 162,	9.200-05
1295,1037, 177,	9.200-05		

REM CONDUCTION - TRUSS FITTING TO METEOROID SHIELD

1298,1037,	77, 0.,	1296,1035,	77, 0.,	1297,1036,	77, 0.
1301,1035,	62, 0.,	1299,1037,	62, 0.,	1300,1036,	62, 0.
1304,1018,	62, 0.,	1302,1016,	62, 0.,	1303,1017,	62, 0.
1307,1016,	63, 0.,	1305,1018,	63, 0.,	1306,1017,	63, 0.
1310,1001,	2, 0.,	1308,1003,	2, 0.,	1309,1002,	2, 0.
1314,1003,	1, 0.,	1312,1001,	1, 0.,	1313,1002,	1, 0.
1317,1021,	1, 0.,	1315,1023,	1, 0.,	1316,1022,	1, 0.
1320,1023,	16, 0.	1318,1021,	16, 0.,	1319,1022,	16, 0.

REM CONDUCTION - EXTERNAL TRUSSES TO METEOROID SHIELD THRU MLI

1403,1051,	105,	9.200-05,	1402,1051,	106,	9.200-05
1406,1052,	105,	3.270-04,	1405,1052,	106,	3.270-04
1409,1053,	105,	3.270-04,	1408,1053,	106,	3.270-04
1438,1066,	166,	3.270-04,	1437,1066,	167,	3.270-04
1441,1067,	166,	3.270-04,	1440,1067,	167,	3.270-04
1445,1071,	118,	3.800-04,	1444,1071,	119,	3.800-04
1447,1071,	104,	9.200-05,	1446,1071,	105,	9.200-05
1450,1072,	104,	3.270-04,	1449,1072,	105,	3.270-04
1479,1085,	165,	3.270-04,	1478,1085,	166,	3.270-04
1482,1086,	165,	3.270-04,	1481,1086,	166,	3.270-04
1485,1087,	179,	3.800-04,	1484,1087,	180,	3.800-04
1491,1068,	166,	9.200-05,	1490,1068,	167,	9.200-05
1493,1073,	104,	3.270-04,	1492,1073,	105,	3.270-04
1495,1087,	165,	9.200-05	1494,1087,	166,	9.200-05

REM CONDUCTION - TRUSS FITTING TO METEOROID SHIELD

1498,1087,	65, 0.,	1496,1085,	65, 0.,	1497,1086,	65, 0.
1501,1085,	66, 0.,	1499,1087,	66, 0.,	1500,1086,	66, 0.
1504,1068,	66, 0.,	1502,1066,	66, 0.,	1503,1067,	66, 0.
1507,1066,	67, 0.,	1505,1068,	67, 0.,	1506,1067,	67, 0.
1510,1051,	6, 0.,	1508,1053,	6, 0.,	1509,1052,	6, 0.
1514,1053,	5, 0.,	1512,1051,	5, 0.,	1513,1052,	5, 0.
1517,1071,	5, 0.,	1515,1073,	5, 0.,	1516,1072,	5, 0.
1520,1073,	4, 0.	1518,1071,	4, 0.,	1519,1072,	4, 0.

REM CONDUCTION - EXTERNAL TRUSSES TO METEOROID SHIELD THRU MLI

1603,1101,	109,	9.200-05,	1602,1101,	110,	9.200-05
1606,1102,	109,	3.270-04,	1605,1102,	110,	3.270-04
1609,1103,	109,	3.270-04,	1608,1103,	110,	3.270-04
1638,1116,	170,	3.270-04,	1637,1116,	171,	3.270-04
			1640,1117,	171,	3.270-04

1641,1117,	170,	3.270-04,	1644,1121,	121,	3.800-04
1645,1121,	120,	3.800-04,	1646,1121,	109,	9.200-05
1647,1121,	108,	9.200-05,	1649,1122,	109,	3.270-04
1650,1122,	108,	3.270-04,	1678,1135,	170,	3.270-04
1679,1135,	169,	3.270-04,	1681,1136,	170,	3.270-04
1682,1136,	169,	3.270-04,	1684,1137,	182,	3.800-04
1685,1137,	181,	3.800-04,	1690,1118,	171,	9.200-05
1691,1118,	170,	9.200-05,	1692,1123,	109,	3.270-04
1693,1123,	108,	3.270-04,	1694,1137,	170,	9.200-05
1695,1137,	169,	9.200-05			

REM CONDUCTION - TRUSS FITTING TO METEOROID SHIELD

		1696,1135,	69, 0.,	1697,1136,	69, 0.
1698,1137,	69, 0.,	1699,1137,	70, 0.,	1700,1136,	70, 0.
1701,1135,	70, 0.,	1702,1116,	70, 0.,	1703,1117,	70, 0.
1704,1118,	70, 0.,	1705,1118,	71, 0.,	1706,1117,	71, 0.
1707,1116,	71, 0.,	1708,1103,	10, 0.,	1709,1102,	10, 0.
1710,1101,	10, 0.,	1712,1101,	9, 0.,	1713,1102,	9, 0.
1714,1103,	9, 0.,	1715,1123,	9, 0.,	1716,1122,	9, 0.
1717,1121,	9, 0.,	1718,1121,	8, 0.,	1719,1122,	8, 0.
1720,1123,	8, 0.				

REM CONDUCTION - EXTERNAL TRUSSES TO METEOROID SHIELD THRU MLI

		1802,1151,	114,	9.200-05	
1803,1151,	113,	9.200-05,	1805,1152,	114,	3.270-04
1806,1152,	113,	3.270-04,	1808,1153,	114,	3.270-04
1809,1153,	113,	3.270-04,	1837,1166,	175,	3.270-04
1838,1166,	174,	3.270-04,	1840,1167,	175,	3.270-04
1841,1167,	174,	3.270-04,	1844,1171,	123,	3.800-04
1845,1171,	122,	3.800-04,	1846,1171,	113,	9.200-05
1847,1171,	112,	9.200-05,	1849,1172,	113,	3.270-04
1850,1172,	112,	3.270-04,	1878,1185,	174,	3.270-04
1879,1185,	173,	3.270-04,	1881,1186,	174,	3.270-04
1882,1186,	173,	3.270-04,	1884,1187,	184,	3.800-04
1885,1187,	183,	3.800-04,	1890,1168,	175,	9.200-05
1891,1168,	174,	9.200-05,	1892,1173,	113,	3.270-04
1893,1173,	112,	3.270-04,	1894,1187,	174,	9.200-05
1895,1187,	173,	9.200-05			

REM CONDUCTION - TRUSS FITTING TO METEOROID SHIELD

		1896,1185,	73, 0.,	1897,1186,	73, 0.
1898,1187,	73, 0.,	1899,1187,	74, 0.,	1900,1186,	74, 0.
1901,1185,	74, 0.,	1902,1166,	74, 0.,	1903,1167,	74, 0.
1904,1168,	74, 0.,	1905,1168,	75, 0.,	1906,1167,	75, 0.

1907,1166, 75, 0., 1908,1153, 14, 0., 1909,1152, 14, 0.
 1910,1151, 14, 0., 1912,1151, 13, 0., 1913,1152, 13, 0.
 1914,1153, 13, 0., 1915,1173, 13, 0., 1916,1172, 13, 0.
 1917,1171, 13, 0., 1918,1171, 12, 0., 1919,1172, 12, 0.
 1920,1173, 12, 0.

REM CONDUCTORS FROM FEED THROUGH TO PRESSURE SHELL NODES

2001, 340, 120, 7.600-04
 2002, 341, 124, 7.600-04, 2003, 342, 128, 7.460-04
 2004, 343, 131, 8.400-04, 2005, 344, 133, 1.290-03
 2006, 345, 137, 1.290-03, 2007, 346, 139, 1.040-03
 2008, 347, 141, 1.470-03, 2009, 348, 145, 1.290-03
 2010, 349, 165, 1.080-03, 2011, 350, 169, 1.080-03
 2012, 351, 173, 1.080-03, 2013, 352, 177, 1.080-03
 2014, 353, 188, 7.460-04

REM CONDUCTION - DOCKING PORTS

7002, 501, 502, 5.100-03
 7003, 501, 503, 4.550-03, 7004, 126, 509, 4.000-05
 7005, 126, 505, 3.480-04, 7007, 505, 507, 1.560-05
 7006, 505, 506, 0.
 7008, 507, 509, 7.750-06, 7009, 509, 512, 1.260-04
 7010, 508, 509, 0.
 7011, 509, 510, 0., 7012, 511, 512, 0., 7013, 512, 513, 0.
 7014, 503, 504, 0., 7106, 525, 526, 0., 7110, 528, 529, 0.
 7111, 529, 530, 0., 7112, 531, 532, 0., 7113, 532, 533, 0.
 7114, 523, 524, 0.
 7034, 503, 128, 2.310-04, 7035, 503, 127, 2.310-04
 7036, 503, 125, 2.310-04, 7037, 503, 126, 2.310-04
 7101, 136, 521, 5.040-03, 7102, 521, 522, 5.100-03
 7103, 521, 523, 4.550-03, 7104, 135, 529, 4.900-05
 7105, 135, 525, 2.040-04, 7107, 525, 527, 1.560-05
 7108, 527, 529, 7.750-06, 7109, 529, 532, 1.260-04
 7115, 523, 136, 5.040-03, 7201, 541, 144, 5.040-03
 7202, 541, 542, 5.100-03, 7203, 541, 543, 4.550-03
 7204, 143, 549, 4.900-05, 7205, 143, 545, 2.040-04
 7206, 545, 546, 0.
 7207, 545, 547, 1.560-05, 7208, 547, 549, 7.750-06
 7210, 548, 549, 0.
 7209, 549, 552, 1.260-04
 7211, 549, 550, 0., 7212, 551, 552, 0., 7213, 552, 553, 0.
 7214, 543, 544, 0.
 7215, 543, 144, 5.040-03

7302, 561, 562, 5.100-03, 7303, 561, 563, 4.550-03
 7304, 186, 569, 4.000-05, 7305, 186, 565, 3.480-04
 7306, 565, 566, 0.
 7307, 565, 567, 1.560-05, 7308, 567, 569, 7.750-06
 7309, 569, 572, 1.260-04
 7310, 568, 569, 0.
 7311, 569, 570, 0., 7312, 571, 572, 0., 7313, 572, 573, 0.
 7314, 563, 564, 0.

 7334, 563, 188, 2.310-04
 7335, 563, 189, 2.310-04, 7336, 563, 187, 2.310-04
 7337, 563, 186, 2.310-04

REM LATERAL CONDUCTION CONDUCTORS IN METEOROID SHIELD

REM CONDUCTORS CALLING INTERPOLATION ON A203

401, 25, 504, 5.000-05,	402, 26, 504, 5.000-05
403, 27, 504, 5.000-05,	404, 28, 504, 5.000-05
405, 25, 26, 1.284-05,	406, 26, 27, 1.284-05
407, 27, 28, 1.284-05,	408, 28, 25, 1.284-05
409, 25, 17, 3.685-05,	410, 26, 18, 3.685-05
411, 26, 19, 3.685-05,	412, 27, 20, 3.685-05
413, 27, 21, 3.685-05,	414, 28, 22, 3.685-05
415, 28, 23, 3.685-05,	416, 25, 24, 3.685-05
417, 24, 17, 1.534-05,	418, 17, 18, 1.534-05
419, 18, 19, 1.534-05,	420, 19, 20, 1.534-05
421, 20, 21, 1.534-05,	422, 21, 22, 1.534-05
423, 22, 23, 1.534-05,	424, 23, 24, 1.534-05
425, 24, 16, 2.690-05,	426, 17, 1, 2.690-05
427, 17, 2, 2.690-05,	428, 18, 3, 2.690-05
429, 18, 4, 2.690-05,	430, 19, 5, 2.690-05
431, 19, 6, 2.690-05,	432, 20, 7, 4.870-05
433, 20, 8, 2.690-05,	434, 21, 9, 2.690-05
435, 21, 10, 2.690-05,	436, 22, 11, 2.690-05
437, 22, 12, 2.690-05,	438, 23, 13, 2.690-05
439, 23, 14, 2.690-05,	440, 24, 15, 4.870-05
441, 16, 15, 3.360-05,	442, 16, 1, 2.298-05
443, 1, 2, 2.298-05,	444, 2, 3, 2.298-05
445, 3, 4, 2.298-05,	446, 4, 5, 2.298-05
447, 5, 6, 2.298-05,	448, 6, 7, 3.360-05
449, 7, 8, 3.360-05,	450, 8, 9, 2.298-05
451, 9, 10, 2.298-05,	452, 10, 11, 2.298-05
453, 11, 12, 2.298-05,	454, 12, 13, 2.298-05
455, 13, 14, 2.298-05,	456, 14, 15, 3.360-05

457,	15,	44,	5.250-05,	458,	16,	45,	2.490-05
459,	1,	30,	4.600-05,	460,	2,	31,	2.490-05
461,	3,	32,	2.490-05,	462,	4,	33,	2.490-05
463,	5,	34,	4.600-05,	464,	6,	35,	2.490-05
465,	7,	36,	5.250-05,	466,	8,	37,	2.490-05
467,	9,	38,	4.600-05,	468,	10,	39,	2.490-05
469,	11,	40,	2.490-05,	470,	12,	41,	2.490-05
471,	13,	42,	4.600-05,	472,	14,	43,	2.490-05
473,	43,	44,	6.160-05,	474,	45,	44,	6.160-05
475,	45,	30,	4.600-05,	476,	31,	30,	4.600-05
477,	31,	32,	3.720-05,	478,	32,	33,	3.720-05
479,	33,	34,	4.600-05,	480,	35,	34,	4.600-05
481,	35,	36,	6.160-05,	482,	37,	36,	6.160-05
483,	37,	38,	4.600-05,	484,	39,	38,	4.600-05
485,	39,	40,	3.720-05,	486,	40,	41,	3.720-05
487,	41,	42,	4.600-05,	488,	43,	42,	4.600-05
489,	43,	59,	1.893-05,	490,	60,	44,	3.700-05
491,	45,	61,	1.893-05,	492,	46,	30,	2.620-05
493,	31,	47,	1.893-05,	494,	32,	48,	1.893-05
495,	33,	49,	1.893-05,	496,	50,	34,	2.620-05
497,	35,	51,	1.893-05,	498,	52,	36,	3.700-05
499,	37,	53,	1.893-05,	500,	54,	38,	2.620-05
501,	55,	39,	1.893-05,	502,	40,	56,	1.893-05
503,	41,	57,	1.893-05,	504,	58,	42,	2.620-05
505,	58,	59,	3.829-05,	506,	59,	60,	3.829-05
507,	60,	61,	3.829-05,	508,	61,	46,	3.829-05
509,	46,	47,	3.829-05,	510,	47,	48,	3.829-05
511,	48,	49,	3.829-05,	512,	49,	50,	3.829-05
513,	50,	51,	3.829-05,	514,	51,	52,	3.829-05
515,	52,	53,	3.829-05,	516,	53,	54,	3.829-05
517,	54,	55,	3.829-05,	518,	55,	56,	3.829-05
519,	56,	57,	3.829-05,	520,	57,	58,	3.829-05
521,	58,	74,	2.442-05,	522,	59,	75,	2.442-05
523,	60,	76,	2.442-05,	524,	61,	77,	2.442-05
525,	46,	62,	2.442-05,	526,	47,	63,	2.442-05
527,	48,	64,	2.442-05,	528,	49,	65,	2.442-05
529,	50,	66,	2.442-05,	530,	51,	67,	2.442-05
531,	52,	68,	2.442-05,	532,	53,	69,	2.442-05
533,	54,	70,	2.442-05,	534,	55,	71,	2.442-05
535,	56,	72,	2.442-05,	536,	57,	73,	2.442-05
537,	73,	74,	2.298-05,	538,	74,	75,	2.298-05

539,	75,	76,	2.298-05,	540,	76,	77,	2.298-05
541,	77,	62,	2.298-05,	542,	62,	63,	2.298-05
543,	63,	64,	2.298-05,	544,	64,	65,	2.298-05
545,	65,	66,	2.298-05,	546,	66,	67,	2.298-05
547,	67,	68,	2.298-05,	548,	68,	69,	2.298-05
549,	69,	70,	2.298-05,	550,	70,	71,	2.298-05
551,	71,	72,	2.298-05,	552,	72,	73,	2.298-05
553,	73,	83,	2.690-05,	554,	74,	84,	2.690-05
555,	75,	84,	2.690-05,	556,	76,	85,	2.690-05
557,	77,	85,	2.690-05,	558,	62,	78,	2.690-05
559,	63,	78,	2.690-05,	560,	64,	79,	2.690-05
561,	65,	79,	2.690-05,	562,	66,	80,	2.690-05
563,	67,	80,	2.690-05,	564,	68,	81,	2.690-05
565,	69,	81,	2.690-05,	566,	70,	82,	2.690-05
567,	71,	82,	2.690-05,	568,	72,	83,	2.690-05
569,	84,	83,	1.534-05,	570,	84,	85,	1.534-05
571,	85,	78,	1.534-05,	572,	78,	79,	1.534-05
573,	79,	80,	1.534-05,	574,	80,	81,	1.534-05
575,	81,	82,	1.534-05,	576,	82,	83,	1.534-05
577,	83,	89,	3.685-05,	578,	84,	89,	3.685-05
579,	85,	86,	3.685-05,	580,	86,	78,	3.685-05
581,	79,	87,	3.685-05,	582,	80,	87,	3.685-05
583,	81,	88,	3.685-05,	584,	82,	88,	3.685-05
585,	88,	89,	1.284-05,	586,	89,	86,	1.284-05
587,	86,	87,	1.284-05,	588,	87,	88,	1.284-05
589,	88,	564,	5.000-05,	590,	89,	564,	5.000-05
591,	86,	564,	5.000-05,	592,	87,	564,	5.000-05

REM CONDUCTORS CALLING INTERPOLATION ON A204

REM CONDUCTION - HARD POINTS TO PRESSURE SHELL

37,	317,	117,	3.550-03,	38,	318,	118,	3.550-03
39,	319,	119,	3.550-03,	40,	320,	120,	3.550-03
41,	321,	121,	3.550-03,	42,	322,	122,	3.550-03
43,	323,	123,	3.550-03,	44,	324,	124,	3.550-03
86,	378,	178,	3.550-03,	87,	379,	179,	3.550-03
88,	380,	180,	3.550-03,	89,	381,	181,	3.550-03
90,	382,	182,	3.550-03,	91,	383,	183,	3.550-03
92,	384,	184,	3.550-03,	93,	385,	185,	3.550-03

REM CONDUCTION - EXTERNAL TRUSSES TO METEOROID SHIELD THRU MIL

1201,	1001,	117,	1.124-03,	1204,	1001,	1002,	5.900-04
1207,	1002,	1003,	5.900-04,	1239,	1016,	1017,	5.900-04
1242,	1017,	1018,	5.900-04,	1243,	1018,	178,	1.124-03

1248,1021,1022,	5.900-04,	1251,1022,1023,	5.900-04
1280,1035,1036,	5.900-04,	1283,1036,1037,	5.900-04
1401,1051, 119,	1.124-03,	1404,1051,1052,	5.900-04
1407,1052,1053,	5.900-04,	1439,1066,1067,	5.900-04
1442,1067,1068,	5.900-04,	1443,1068, 180,	1.124-03
1448,1071,1072,	5.900-04,	1451,1072,1073,	5.900-04
1480,1085,1086,	5.900-04,	1483,1086,1087,	5.900-04
1601,1101, 121,	1.124-03,	1604,1101,1102,	5.900-04
1607,1102, 103,	5.900-31,	1639,1116,1117,	5.900-04
1642,1117,1118,	5.900-04,	1643,1118, 182,	1.124-03
1648,1121,1122,	5.900-04,	1651,1122,1123,	5.900-04
1680,1135,1136,	5.900-04,	1683,1136,1137,	5.900-04
1801,1151, 123,	1.124-03,	1804,1151,1152,	5.900-04
1807,1152,1153,	5.900-04,	1839,1166,1167,	5.900-04
1842,1167,1168,	5.900-04,	1843,1168, 184,	1.124-03
1848,1171,1172,	5.900-04,	1851,1172,1173,	5.900-04
1880,1185,1186,	5.900-04,	1883,1186,1187,	5.900-04
REM CONDUCTION - LATERAL CONDUCTION IN PRESSURE SHELL			
701, 125, 501,	2.290-03,	702, 126, 501,	2.290-03
703, 127, 501,	2.290-03,	704, 128, 501,	2.290-03
889, 186, 561,	2.290-03,	890, 187, 561,	2.290-03
891, 188, 561,	2.290-03,	892, 189, 561,	2.290-03
REM CONDUCTION - CENTER POST			
902, 451, 452,	1.260-04,	903, 452, 453,	7.160-05
904, 453, 454,	1.260-04,	912, 455, 456,	1.260-04
913, 456, 457,	7.160-05,	914, 457, 458,	1.260-04
922, 459, 460,	1.260-04,	923, 460, 461,	7.160-05
924, 461, 462,	1.260-04,	932, 463, 464,	1.260-04
933, 464, 465,	7.160-05,	934, 465, 466,	1.260-04
REM CONDUCTION - TRUSS SUPPORTS			
1210,1003,1004,4.820E-4,1212,1004,1005,8.300E-4			
1215,1005,1006,6.580E-4,1217,1006,1007,6.580E-4			
1219,1007,1008,6.580E-4,1221,1008,1009,6.580E-4			
1223,1009,1010,6.580E-4,1225,1010,1011,8.300E-4			
1227,1011,1012,4.200E-4,1228,1012,1013,11.78E-4			
1231,1013,1014,4.580E-4,1233,1014,1015,5.160E-4			
1235,1015,1016,4.830E-4			
1252,1023,1024,4.820E-4,1254,1024,1025,8.300E-4			
1257,1025,1026,6.580E-4,1259,1026,1027,6.580E-4			
1261,1027,1028,6.580E-4,1263,1028,1029,6.580E-4			
1265,1029,1030,6.580E-4,1267,1030,1031,8.300E-4			

1269,1031,1012,4.200E-4,1270,1012,1032,11.78E-4
1272,1032,1033,4.580E-4,1274,1033,1034,5.160E-4
1276,1034,1035,4.830E-4
1410,1053,1054,4.820E-4,1412,1054,1055,8.300E-4
1415,1055,1056,6.580E-4,1417,1056,1057,6.580E-4
1419,1057,1058,6.580E-4,1421,1058,1059,6.580E-4
1423,1059,1060,6.580E-4,1425,1060,1061,8.300E-4
1427,1061,1062,4.200E-4,1428,1062,1063,11.78E-4
1431,1063,1064,4.580E-4,1433,1064,1065,5.160E-4
1435,1065,1066,4.830E-4
1452,1073,1074,4.820E-4,1454,1074,1075,8.300E-4
1457,1075,1076,6.580E-4,1459,1076,1077,6.580E-4
1461,1077,1078,6.580E-4,1463,1078,1079,6.580E-4
1465,1079,1080,6.580E-4,1467,1080,1081,8.300E-4
1469,1081,1062,4.200E-4,1470,1062,1082,11.78E-4
1472,1082,1083,4.580E-4,1474,1083,1084,5.160E-4
1476,1084,1085,4.830E-4
1610,1103,1104,4.820E-4,1612,1104,1105,8.300E-4
1615,1105,1106,6.580E-4,1617,1106,1107,6.580E-4
1619,1107,1108,6.580E-4,1621,1108,1109,6.580E-4
1623,1109,1110,6.580E-4,1625,1110,1111,8.300E-4
1627,1111,1112,4.200E-4,1628,1112,1113,11.78E-4
1631,1113,1114,4.580E-4,1633,1114,1115,5.160E-4
1635,1115,1116,4.830E-4
1652,1123,1124,4.820E-4,1654,1124,1125,8.300E-4
1657,1125,1126,6.580E-4,1659,1126,1127,6.580E-4
1661,1127,1128,6.580E-4,1663,1128,1129,6.580E-4
1665,1129,1130,6.580E-4,1667,1130,1131,8.300E-4
1669,1131,1112,4.200E-4,1670,1112,1132,11.78E-4
1672,1132,1133,4.580E-4,1674,1133,1134,5.160E-4
1676,1134,1135,4.830E-4
1810,1153,1154,4.820E-4,1812,1154,1155,8.300E-4
1815,1155,1156,6.580E-4,1817,1156,1157,6.580E-4
1819,1157,1158,6.580E-4,1821,1158,1159,6.580E-4
1823,1159,1160,6.580E-4,1825,1160,1161,8.300E-4
1827,1161,1162,4.200E-4,1828,1162,1163,11.78E-4
1831,1163,1164,4.580E-4,1833,1164,1165,5.160E-4
1835,1165,1166,4.830E-4
1852,1173,1174,4.820E-4,1854,1174,1175,8.300E-4
1857,1175,1176,6.580E-4,1859,1176,1177,6.580E-4
1861,1177,1178,6.580E-4,1863,1178,1179,6.580E-4

1865,1179,1180,6.580E-4,1867,1180,1181,8.300E-4
 1869,1181,1162,4.200E-4,1870,1162,1182,11.78E-4
 1872,1182,1183,4.580E-4,1874,1183,1184,5.160E-4
 1876,1184,1185,4.830E-4
 5001,904,905,1.597E-1, 5002,904,901,5.674E-1
 5003,905,901,5.674E-1, 5004,901,902,1.745
 5005,902,903,1.745, 5006,903,906,5.674E-1
 5007,903,907,5.674E-1, 5008,906,907,1.597E-1
 5011,901,128,2.397E-1, 5021,903,189,2.397E-1
 5012,904,128,2.647E-2, 5022,906,189,2.647E-2
 5013,904,125,5.313E-2, 5023,906,186,5.313E-2
 5014,904,126,1.339E-2, 5024,906,187,1.339E-2
 5015,905,126,3.986E-2, 5025,907,187,3.986E-2
 5016,905,127,5.313E-2, 5026,907,188,5.313E-2
 8011,107,681,2.740E-03,8012,115,671,2.740E-03
 8013,134,641,1.595E-03,8014,130,651,1.595E-03
 8015,142,661,1.595E-03,8016,138,601,1.595E-03
 8021,681,682,0.330E-03,8022,671,672,0.330E-03
 8023,641,642,0.330E-03,8024,651,652,0.330E-03
 8025,661,662,0.330E-03,8026,601,602,0.330E-03
 8031,682,688,4.320E-05,8032,672,678,4.320E-05
 8033,642,648,4.320E-05,8034,652,658,4.320E-05
 8035,662,668,4.320E-05,8036,602,608,4.320E-05
 8041,682,683,4.320E-05,8042,672,673,4.320E-05
 8043,642,643,4.320E-05,8044,652,653,4.320E-05
 8045,662,663,4.320E-05,8046,602,603,4.320E-05
 8051,686,685,3.280E-05,8052,676,675,3.280E-05
 8053,645,644,3.280E-05,8054,655,654,3.280E-05
 8055,665,664,3.280E-05,8056,605,604,3.280E-05
 8061,685,690,8.000E-06,8062,675,680,8.000E-06
 8063,644,650,8.000E-06,8064,654,660,8.000E-06
 8065,664,670,8.000E-06,8066,604,610,8.000E-06
 8071,690,687,1.690E-05,8072,680,677,1.690E-05
 8073,650,647,1.690E-05,8074,660,657,1.690E-05
 8075,670,667,1.690E-05,8076,610,607,1.690E-05
 -8361,686,900,8.459E-12,-8362,676,900,8.459E-12
 -8363,645,900,8.459E-12,-8364,655,900,8.459E-12
 -8365,665,900,8.459E-12,-8366,605,900,8.459E-12
 -8371,690,900,1.460E-16,-8372,680,900,1.460E-16
 -8373,650,900,1.460E-16,-8374,660,900,1.460E-16
 -8375,670,900,1.460E-16,-8376,610,900,1.460E-16

REM RADIATION CONDUCTORS -CENTER POST TO PRESSURE SHELL

-938, 452, 401, 2.960-14	
-939, 452, 402, 2.150-14,	-940, 452, 403, 2.150-14
-941, 452, 404, 1.230-14,	-942, 453, 401, 1.230-14
-943, 453, 402, 2.150-14,	-944, 453, 403, 2.150-14
-945, 453, 404, 2.960-14,	-946, 456, 401, 2.960-14
-947, 456, 402, 2.150-14,	-948, 456, 403, 2.150-14
-949, 456, 404, 1.230-14,	-950, 457, 401, 1.230-14
-951, 457, 402, 2.150-14,	-952, 457, 403, 2.150-14
-953, 457, 404, 2.960-14,	-954, 460, 401, 2.960-14
-955, 460, 402, 2.150-14,	-956, 460, 403, 2.150-14
-957, 460, 404, 1.230-14,	-958, 461, 401, 1.230-14
-959, 461, 402, 2.150-14,	-960, 461, 403, 2.150-14
-961, 461, 404, 2.960-14,	-962, 464, 401, 2.960-14
-963, 464, 402, 2.150-14,	-964, 464, 403, 2.150-14
-965, 464, 404, 1.230-14,	-966, 465, 401, 1.230-14
-967, 465, 402, 2.150-14,	-968, 465, 403, 2.150-14
-969, 465, 404, 2.960-14	

REM RADIATION CONDUCTORS -DOCKING PORTS

-7020, 501, 503, 1.42E-13,	-7021, 501, 502, 1.74E-13
-7022, 502, 503, 1.52E-13,	-7023, 502, 513, 1.83E-13
-7024, 501, 513, 1.52E-13,	-7025, 503, 513, 1.74E-13
-7120, 521, 523, 1.42E-13,	-7121, 521, 522, 1.74E-13
-7122, 522, 523, 1.52E-13,	-7123, 522, 533, 1.83E-13
-7124, 521, 533, 1.52E-13,	-7125, 523, 533, 1.74E-13
-7220, 541, 543, 1.42E-13,	-7221, 542, 541, 1.74E-13
-7222, 542, 543, 1.52E-13,	-7223, 542, 553, 1.83E-13
-7224, 541, 553, 1.52E-13,	-7225, 543, 553, 1.74E-13
-7320, 561, 563, 1.42E-13,	-7321, 561, 562, 1.74E-13
-7322, 562, 563, 1.52E-13,	-7323, 562, 573, 1.83E-13
-7324, 561, 573, 1.52E-13,	-7325, 563, 573, 1.74E-13
-7026, 504, 900, -7.150-13,	-7028, 506, 900, -1.290-13
-7029, 507, 900, -9.100-15,	-7030, 508, 900, -1.460-13
-7031, 511, 900, -9.000-13,	-7126, 524, 900, -7.150-13
-7128, 526, 900, -1.290-13,	-7129, 527, 900, -9.100-15
-7130, 528, 900, -1.460-13,	-7131, 531, 900, -9.000-13
-7226, 544, 900, -7.150-13,	-7228, 546, 900, -1.290-13
-7229, 547, 900, -9.100-15,	-7230, 548, 900, -1.460-13
-7231, 551, 900, -9.000-13,	-7326, 564, 900, -7.150-13
-7328, 566, 900, -1.290-13,	-7329, 567, 900, -9.100-15
-7330, 568, 900, -1.460-13,	-7331, 571, 900, -9.000-13

-1211,1004,1019,.107E-13,-1214,1005,1019,.224E-13
-1216,1006,1019,.224E-13,-1218,1007,1019,.224E-13
-1220,1008,1019,.224E-13,-1222,1009,1019,.224E-13
-1224,1010,1019,.224E-13,-1226,1011,1019,.107E-13
-1230,1013,1020,.224E-13,-1232,1014,1020,.224E-13
-1234,1015,1020,.107E-13,-1253,1024,1038,.107E-13
-1256,1025,1038,.224E-13,-1258,1026,1038,.224E-13
-1260,1027,1038,.224E-13,-1262,1028,1038,.224E-13
-1264,1029,1038,.224E-13,-1266,1030,1038,.224E-13
-1268,1031,1038,.107E-13,-1271,1032,1039,.224E-13
-1273,1033,1039,.224E-13,-1275,1034,1039,.107E-13
-1411,1054,1069,.107E-13,-1414,1055,1069,.224E-13
-1416,1056,1069,.224E-13,-1418,1057,1069,.224E-13
-1420,1058,1069,.224E-13,-1422,1059,1069,.224E-13
-1424,1060,1069,.224E-13,-1426,1061,1069,.107E-13
-1430,1063,1070,.224E-13,-1432,1064,1070,.224E-13
-1434,1065,1070,.107E-13,-1453,1074,1088,.107E-13
-1456,1075,1088,.224E-13,-1458,1076,1088,.224E-13
-1460,1077,1088,.224E-13,-1462,1078,1088,.224E-13
-1464,1079,1088,.224E-13,-1466,1080,1088,.224E-13
-1468,1081,1088,.107E-13,-1471,1082,1089,.224E-13
-1473,1083,1089,.224E-13,-1475,1084,1089,.107E-13
-1611,1104,1119,.107E-13,-1614,1105,1119,.224E-13
-1616,1106,1119,.224E-13,-1618,1107,1119,.224E-13
-1620,1108,1119,.224E-13,-1622,1109,1119,.224E-13
-1624,1110,1119,.224E-13,-1626,1111,1119,.107E-13
-1630,1113,1120,.224E-13,-1632,1114,1120,.224E-13
-1634,1115,1120,.107E-13,-1653,1124,1138,.107E-13
-1656,1125,1138,.224E-13,-1658,1126,1138,.224E-13
-1660,1127,1138,.224E-13,-1662,1128,1138,.224E-13
-1664,1129,1138,.224E-13,-1666,1130,1138,.224E-13
-1668,1131,1138,.107E-13,-1671,1132,1139,.224E-13
-1673,1133,1139,.224E-13,-1675,1134,1139,.107E-13
-1811,1154,1169,.107E-13,-1814,1155,1169,.224E-13
-1816,1156,1169,.224E-13,-1818,1157,1169,.224E-13
-1820,1158,1169,.224E-13,-1822,1159,1169,.224E-13
-1824,1160,1169,.224E-13,-1826,1161,1169,.107E-13
-1830,1163,1170,.224E-13,-1832,1164,1170,.224E-13
-1834,1165,1170,.107E-13,-1853,1174,1188,.107E-13
-1856,1175,1188,.224E-13,-1858,1176,1188,.224E-13
-1860,1177,1188,.224E-13,-1862,1178,1188,.224E-13

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-1864,1179,1188,.224E-13,-1866,1180,1188,.224E-13
-1868,1181,1188,.107E-13,-1871,1182,1189,.224E-13
-1873,1183,1189,.224E-13,-1875,1184,1189,.107E-13
-8301,688,683,7.505E-13,-8302,678,673,7.505E-13
-8303,648,643,7.505E-13,-8304,658,653,7.505E-13
-8305,668,663,7.505E-13,-8306,608,603,7.505E-13
-8311,683,689,7.505E-13,-8312,673,679,7.505E-13
-8313,643,649,7.505E-13,-8314,653,659,7.505E-13
-8315,663,669,7.505E-13,-8316,603,609,7.505E-13
-8331,688,686,6.079E-13,-8332,678,676,6.079E-13
-8333,648,645,6.079E-13,-8334,658,655,6.079E-13
-8335,668,665,6.079E-13,-8336,608,605,6.079E-13
-8341,685, 7,5.327E-14,-8342,675, 15,5.327E-14
-8343,644, 34,5.327E-14,-8344,654, 30,5.327E-14
-8345,664, 42,5.327E-14,-8346,604, 38,5.327E-14
-8351,687, 7,7.010E-14,-8352,677, 15,7.010E-14
-8353,647, 34,7.010E-14,-8354,657, 30,7.010E-14
-8355,667, 42,7.010E-14,-8356,607, 38,7.010E-14
END
BCD 3CONSTANTS DATA
REM AREA MULTIPLYING CONSTANTS
 1, 1.484E-3, 2, 0.879E-3, 3, 1.926E-3, 4, 2.074E-3
 5, 2.760E-3, 6, 3.366E-3, 7, 1.454E-3, 8, 3.469E-3
19, 0.100E-3, 20, 0.100E-3, 21, 0.100E-3
30,0.313E-3, 31, 0.354E-3, 32, 2.190E-3, 33, 1.890E-3
40, 1.718E-2, 41, 0.313E-3, 42, 6.035E-3, 43, 0.727E-3
50, 17.29 , 51, 23.836 , 52, 26.242 , 53, 21.031
REM VARIABLE MULTIPLIERS FOR CGS NODES AND CONDUCTORS
60, 6.79, 61, 0.1720E-3, 62, 0.0167, 63, -0.646E-12
REM
TIMEQ,6559200., TIMEND,6572400., OUTPUT,600.
NLOOP,20,ARLXCA,0.001,DAMPA,0.5
END
BCD 3ARRAY DATA
9,-63.5, -29.5, 10.0, 61.0, 103.5, 160.0,END
100,0.00092,0.00121,0.00155,0.00199,0.00235,0.00283,END
101,0.00215,0.00243,0.00290,0.00363,0.00440,0.00520,END
102,0.00315,0.00365,0.00430,0.00530,0.00620,0.00710,END
103,0.00478,0.00523,0.00614,0.00714,0.00860,0.00967,END
104,0.00550,0.00597,0.00696,0.00804,0.00947,0.01077,END
105,0.00622,0.00671,0.00778,0.00894,0.01034,0.01188,END

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[illegible]

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-1000,SPACE,200,END
-1001,SPACE,200,END
-1003,SPACE,192,END      $ A203 FACTOR ARRAY
-1004,SPACE, 76,END      $ A204 FACTOR ARRAY

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END

BCD 3EXECUTION

ARYDIV(20,G5001,3600.,G5001)

SHFTV(268,G401,A1003)

DIMENSION X(5000)

NDIM= 5000

NTH = 0

ARYMPY(20,G7026,-1.,G7026)

CNFRWD

END

BCD 3VARIABLES 1

D1D1MI(60,T1001,A326,A3326+1,C1001) \$TRUSS CAP

D1D1MI(80,T1005,A324,A3324+1,C1005) \$TRUSS CAP

REM INTERPOLATE FOR VARIABLE CONDUCTORS

BLDARY(A1000+000,T025,T026,T027,T028,T025,T026,T027,T028
T025,T026,T026,T027,T027,T028,T028,T025,T024,T017
T018,T019,T020,T021,T022,T023,T024,T017,T017,T018)

BLDARY(A1000+028,T018,T019,T019,T020,T020,T021,T021,T022
T022,T023,T023,T024,T016,T016,T001,T002,T003,T004
T005,T006,T007,T008,T009,T010,T011,T012,T013,T014)

BLDARY(A1000+056,T015,T016,T001,T002,T003,T004,T005,T006
T007,T008,T009,T010,T011,T012,T013,T014,T043,T045
T045,T031,T031,T032,T033,T035,T035,T037,T037,T039)

BLDARY(A1000+084,T039,T040,T041,T043,T043,T060,T045,T046
T031,T032,T033,T050,T035,T052,T037,T054,T055,T040
T041,T058,T058,T059,T060,T061,T046,T047,T048,T049)

BLDARY(A1000+112,T050,T051,T052,T053,T054,T055,T056,T057
T058,T059,T060,T061,T046,T047,T048,T049,T050,T051
T052,T053,T054,T055,T056,T057,T073,T074,T075,T076)

BLDARY(A1000+140,T077,T062,T063,T064,T065,T066,T067,T068
T069,T070,T071,T072,T073,T074,T075,T076,T077,T062
T063,T064,T065,T066,T067,T068,T069,T070,T071,T072)

BLDARY(A1000+168,T084,T084,T085,T078,T079,T080,T081,T082
T083,T084,T085,T086,T079,T080,T081,T082,T088,T089
T086,T087,T088,T089,T086,T087)

BLDARY(A1001+000,T504,T504,T504,T504,T026,T027,T028,T025
T017,T018,T019,T020,T021,T022,T023,T024,T017,T018)

F
F
F

T019, T020, T021, T022, T023, T024, T016, T001, T002, T003)
 BLDARY(A1001+028, T004, T005, T006, T007, T008, T009, T010, T011
 T012, T013, T014, T015, T015, T001, T002, T003, T004, T005
 T006, T007, T008, T009, T010, T011, T012, T013, T014, T015)
 BLDARY(A1001+056, T044, T045, T030, T031, T032, T033, T034, T035
 T036, T037, T038, T039, T040, T041, T042, T043, T044, T044
 T030, T030, T032, T033, T034, T034, T036, T036, T038, T038)
 BLDARY(A1001+084, T040, T041, T042, T042, T059, T044, T061, T030
 T047, T048, T049, T034, T051, T036, T053, T038, T039, T056
 T057, T042, T059, T060, T061, T046, T047, T048, T049, T050)
 BLDARY(A1001+112, T051, T052, T053, T054, T055, T056, T057, T058
 T074, T075, T076, T077, T062, T063, T064, T065, T066, T067
 T068, T069, T070, T071, T072, T073, T074, T075, T076, T077)
 BLDARY(A1001+140, T062, T063, T064, T065, T066, T067, T068, T069
 T070, T071, T072, T073, T083, T084, T084, T085, T085, T078
 T078, T079, T079, T080, T080, T081, T081, T082, T082, T083)
 BLDARY(A1001+168, T083, T085, T078, T079, T080, T081, T082, T083
 T089, T089, T086, T078, T087, T087, T088, T088, T089, T086
 T087, T088, T564, T564, T564, T564)
 ADDARY(192, A1000, A1001, A1000)
 ARYDIV(192, A1000, 2., A1000)
 D1D1MI(192, A1000, A203, A1003, G401)
 BLDARY(A1000+00, T317, T318, T319, T320, T321, T322, T323, T324, T378
 T379, T380, T381, T382, T383, T384, T385, T1001, T1001, T1002
 T1016, T1017, T1018, T1021, T1022, T1035, T1036, T1051, T1051)
 BLDARY(A1000+28, T1052, T1066, T1067, T1068, T1071, T1072, T1085
 T1086, T1101, T1101, T1102, T1116, T1117, T1118, T1121, T1122, T1135
 T1136, T1151, T1151, T1152, T1166, T1167, T1168, T1171, T1172, T1185)
 BLDARY(A1000+55, T1186, T125, T126, T127, T128, T186, T187, T188, T189
 T451, T452, T453, T455, T456, T457, T459, T460, T461, T463, T464, T465)
 BLDARY(A1001+00, T117, T118, T119, T120, T121, T122, T123, T124, T178
 T179, T180, T181, T182, T183, T184, T185, T117, T1002, T1003
 T1017, T1018, T178, T1022, T1023, T1036, T1037, T119, T1052)
 BLDARY(A1001+28, T1053, T1067, T1068, T180, T1072, T1073, T1086
 T1087, T121, T1102, T103, T1117, T1118, T182, T1122, T1123, T1136
 T1137, T123, T1152, T1153, T1167, T1168, T184, T1172, T1173, T1186)
 BLDARY(A1001+55, T1187, T501, T501, T501, T501, T561, T561, T561, T561
 T452, T453, T454, T456, T457, T458, T460, T461, T462, T464, T465, T466)
 ADDARY(76, A1000, A1001, A1000)
 ARYDIV(76, A1000, 2., A1000)
 D1D1MI(76, A1000, A204, A1004, G37)

REM DETERMINE CONDUCTANCE THRU MLI FROM METEROID SHIELD TO
REM PRESSURE SHELL AS FUNCTION OF MEAN TEMPERATURE AND PRESSURE

D1M1MD(T1,T101,A9,A105,K1,G101)
D1M1MD(T2,T102,A9,A104,K1,G102)
D1M1MD(T3,T103,A9,A103,K1,G103)
D1M1MD(T4,T104,A9,A104,K1,G104)
D1M1MD(T5,T105,A9,A105,K1,G105)
D1M1MD(T6,T106,A9,A104,K1,G106)
D1M1MD(T7,T107,A9,A108,K2,G107)
D1M1MD(T8,T108,A9,A104,K1,G108)
D1M1MD(T9,T109,A9,A105,K1,G109)
D1M1MD(T10,T110,A9,A104,K1,G110)
D1M1MD(T11,T111,A9,A103,K1,G111)
D1M1MD(T12,T112,A9,A104,K1,G112)
D1M1MD(T13,T113,A9,A105,K1,G113)
D1M1MD(T14,T114,A9,A104,K1,G114)
D1M1MD(T15,T115,A9,A108,K2,G115)
D1M1MD(T16,T116,A9,A104,K1,G116)
D1M1MD(T17,T117,A9,A103,K3,G117)
D1M1MD(T18,T118,A9,A103,K3,G118)
D1M1MD(T19,T119,A9,A103,K3,G119)
D1M1MD(T20,T120,A9,A104,K3,G120)
D1M1MD(T21,T121,A9,A103,K3,G121)
D1M1MD(T22,T122,A9,A103,K3,G122)
D1M1MD(T23,T123,A9,A103,K3,G123)
D1M1MD(T24,T124,A9,A104,K3,G124)
D1M1MD(T25,T125,A9,A103,K4,G125)
D1M1MD(T26,T126,A9,A103,K4,G126)
D1M1MD(T27,T127,A9,A103,K4,G127)
D1M1MD(T28,T128,A9,A103,K4,G128)
D1M1MD(T30,T130,A9,A108,K5,G130)
D1M1MD(T31,T131,A9,A107,K6,G131)
D1M1MD(T32,T132,A9,A107,K6,G132)
D1M1MD(T33,T133,A9,A107,K6,G133)
D1M1MD(T34,T134,A9,A108,K5,G134)
D1M1MD(T35,T135,A9,A107,K6,G135)
D1M1MD(T36,T136,A9,A109,K7,G136)
D1M1MD(T37,T137,A9,A107,K6,G137)
D1M1MD(T38,T138,A9,A108,K5,G138)
D1M1MD(T39,T139,A9,A107,K6,G139)
D1M1MD(T40,T140,A9,A107,K6,G140)

D1M1MD(T41,T141,A9,A107,K6,G141)
D1M1MD(T42,T142,A9,A108,K5,G142)
D1M1MD(T43,T143,A9,A107,K6,G143)
D1M1MD(T44,T144,A9,A109,K7,G144)
D1M1MD(T45,T145,A9,A107,K6,G145)
D1M1MD(T46,T146,A9,A107,K8,G146)
D1M1MD(T47,T147,A9,A107,K8,G147)
D1M1MD(T48,T148,A9,A107,K8,G148)
D1M1MD(T49,T149,A9,A107,K8,G149)
D1M1MD(T50,T150,A9,A107,K8,G150)
D1M1MD(T51,T151,A9,A107,K8,G151)
D1M1MD(T52,T152,A9,A110,K8,G152)
D1M1MD(T53,T153,A9,A107,K8,G153)
D1M1MD(T54,T154,A9,A107,K8,G154)
D1M1MD(T55,T155,A9,A107,K8,G155)
D1M1MD(T56,T156,A9,A107,K8,G156)
D1M1MD(T57,T157,A9,A107,K8,G157)
D1M1MD(T58,T158,A9,A107,K8,G158)
D1M1MD(T59,T159,A9,A107,K8,G159)
D1M1MD(T60,T160,A9,A110,K8,G160)
D1M1MD(T61,T161,A9,A107,K8,G161)
D1M1MD(T62,T162,A9,A106,K1,G162)
D1M1MD(T63,T163,A9,A105,K1,G163)
D1M1MD(T64,T164,A9,A104,K1,G164)
D1M1MD(T65,T165,A9,A104,K1,G165)
D1M1MD(T66,T166,A9,A106,K1,G166)
D1M1MD(T67,T167,A9,A105,K1,G167)
D1M1MD(T68,T168,A9,A104,K1,G168)
D1M1MD(T69,T169,A9,A104,K1,G169)
D1M1MD(T70,T170,A9,A106,K1,G170)
D1M1MD(T71,T171,A9,A105,K1,G171)
D1M1MD(T72,T172,A9,A104,K1,G172)
D1M1MD(T73,T173,A9,A104,K1,G173)
D1M1MD(T74,T174,A9,A106,K1,G174)
D1M1MD(T75,T175,A9,A105,K1,G175)
D1M1MD(T76,T176,A9,A104,K1,G176)
D1M1MD(T77,T177,A9,A104,K1,G177)
D1M1MD(T78,T178,A9,A103,K3,G178)
D1M1MD(T79,T179,A9,A103,K3,G179)
D1M1MD(T80,T180,A9,A103,K3,G180)
D1M1MD(T81,T181,A9,A103,K3,G181)

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D1M1MD(T82,T182,A9,A103,K3,G182)
D1M1MD(T83,T183,A9,A103,K3,G183)
D1M1MD(T84,T184,A9,A103,K3,G184)
D1M1MD(T85,T185,A9,A103,K3,G185)
D1M1MD(T86,T186,A9,A103,K4,G186)
D1M1MD(T87,T187,A9,A103,K4,G187)
D1M1MD(T88,T188,A9,A103,K4,G188)
D1M1MD(T89,T189,A9,A103,K4,G189)
REM DETERMINE CONDUCTANCE THRU MLI IN TRUSS STRUCTURE AS FUNCTION
REM OF MEAN TEMPERATURE AND PRESSURE
D1M1MD(T1035,T77,A9,A101,K21,G1296)
D1M1MD(T1036,T77,A9,A101,K20,G1297)
D1M1MD(T1037,T77,A9,A101,K19,G1298)
D1M1MD(T1037,T62,A9,A101,K19,G1299)
D1M1MD(T1036,T62,A9,A101,K20,G1300)
D1M1MD(T1035,T62,A9,A101,K21,G1301)
D1M1MD(T1016,T62,A9,A101,K21,G1302)
D1M1MD(T1017,T62,A9,A101,K20,G1303)
D1M1MD(T1018,T62,A9,A101,K19,G1304)
D1M1MD(T1018,T63,A9,A101,K19,G1305)
D1M1MD(T1017,T63,A9,A101,K20,G1306)
D1M1MD(T1016,T63,A9,A101,K21,G1307)
D1M1MD(T1003,T2,A9,A101,K21,G1308)
D1M1MD(T1002,T2,A9,A101,K20,G1309)
D1M1MD(T1001,T2,A9,A101,K19,G1310)
D1M1MD(T1001,T1,A9,A101,K19,G1312)
D1M1MD(T1002,T1,A9,A101,K20,G1313)
D1M1MD(T1003,T1,A9,A101,K21,G1314)
D1M1MD(T1023,T1,A9,A101,K21,G1315)
D1M1MD(T1022,T1,A9,A101,K20,G1316)
D1M1MD(T1021,T1,A9,A101,K19,G1317)
D1M1MD(T1021,T16,A9,A101,K19,G1318)
D1M1MD(T1022,T16,A9,A101,K20,G1319)
D1M1MD(T1023,T16,A9,A101,K21,G1320)
D1M1MD(T1085,T65,A9,A101,K21,G1496)
D1M1MD(T1086,T65,A9,A101,K20,G1497)
D1M1MD(T1087,T65,A9,A101,K19,G1498)
D1M1MD(T1087,T66,A9,A101,K19,G1499)
D1M1MD(T1086,T66,A9,A101,K20,G1500)
D1M1MD(T1085,T66,A9,A101,K21,G1501)
D1M1MD(T1066,T66,A9,A101,K21,G1502)

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D1M1MD(T1067,T66,A9,A101,K20,G1503)
D1M1MD(T1068,T66,A9,A101,K19,G1504)
D1M1MD(T1068,T67,A9,A101,K19,G1505)
D1M1MD(T1067,T67,A9,A101,K20,G1506)
D1M1MD(T1066,T67,A9,A101,K21,G1507)
D1M1MD(T1053,T6,A9,A101,K21,G1508)
D1M1MD(T1052,T6,A9,A101,K20,G1509)
D1M1MD(T1051,T6,A9,A101,K19,G1510)
D1M1MD(T1051,T5,A9,A101,K19,G1512)
D1M1MD(T1052,T5,A9,A101,K20,G1513)
D1M1MD(T1053,T5,A9,A101,K21,G1514)
D1M1MD(T1073,T5,A9,A101,K21,G1515)
D1M1MD(T1072,T5,A9,A101,K20,G1516)
D1M1MD(T1071,T5,A9,A101,K19,G1517)
D1M1MD(T1071,T4,A9,A101,K19,G1518)
D1M1MD(T1072,T4,A9,A101,K20,G1519)
D1M1MD(T1073,T4,A9,A101,K21,G1520)
D1M1MD(T1135,T69,A9,A101,K21,G1696)
D1M1MD(T1136,T69,A9,A101,K20,G1697)
D1M1MD(T1137,T69,A9,A101,K19,G1698)
D1M1MD(T1137,T70,A9,A101,K19,G1699)
D1M1MD(T1136,T70,A9,A101,K20,G1700)
D1M1MD(T1135,T70,A9,A101,K21,G1701)
D1M1MD(T1116,T70,A9,A101,K21,G1702)
D1M1MD(T1117,T70,A9,A101,K20,G1703)
D1M1MD(T1118,T70,A9,A101,K19,G1704)
D1M1MD(T1118,T71,A9,A101,K19,G1705)
D1M1MD(T1117,T71,A9,A101,K20,G1706)
D1M1MD(T1116,T71,A9,A101,K21,G1707)
D1M1MD(T1103,T10,A9,A101,K21,G1708)
D1M1MD(T1102,T10,A9,A101,K20,G1709)
D1M1MD(T1101,T10,A9,A101,K19,G1710)
D1M1MD(T1101,T9,A9,A101,K19,G1712)
D1M1MD(T1102,T9,A9,A101,K20,G1713)
D1M1MD(T1103,T9,A9,A101,K21,G1714)
D1M1MD(T1123,T9,A9,A101,K21,G1715)
D1M1MD(T1122,T9,A9,A101,K20,G1716)
D1M1MD(T1121,T9,A9,A101,K19,G1717)
D1M1MD(T1121,T8,A9,A101,K19,G1718)
D1M1MD(T1123,T8,A9,A101,K21,G1720)
D1M1MD(T1122,T8,A9,A101,K20,G1719)

D1M1MD(T1185,T73,A9,A101,K21,G1896)
D1M1MD(T1186,T73,A9,A101,K20,G1897)
D1M1MD(T1187,T73,A9,A101,K19,G1898)
D1M1MD(T1187,T74,A9,A101,K19,G1899)
D1M1MD(T1186,T74,A9,A101,K20,G1900)
D1M1MD(T1185,T74,A9,A101,K21,G1901)
D1M1MD(T1166,T74,A9,A101,K21,G1902)
D1M1MD(T1167,T74,A9,A101,K20,G1903)
D1M1MD(T1168,T74,A9,A101,K19,G1904)
D1M1MD(T1168,T75,A9,A101,K19,G1905)
D1M1MD(T1167,T75,A9,A101,K20,G1906)
D1M1MD(T1166,T75,A9,A101,K21,G1907)
D1M1MD(T1153,T14,A9,A101,K21,G1908)
D1M1MD(T1152,T14,A9,A101,K20,G1909)
D1M1MD(T1151,T14,A9,A101,K19,G1910)
D1M1MD(T1151,T13,A9,A101,K19,G1912)
D1M1MD(T1152,T13,A9,A101,K20,G1913)
D1M1MD(T1153,T13,A9,A101,K21,G1914)
D1M1MD(T1173,T13,A9,A101,K21,G1915)
D1M1MD(T1172,T13,A9,A101,K20,G1916)
D1M1MD(T1171,T13,A9,A101,K19,G1917)
D1M1MD(T1171,T12,A9,A101,K19,G1918)
D1M1MD(T1172,T12,A9,A101,K20,G1919)
D1M1MD(T1173,T12,A9,A101,K21,G1920)

REM DETERMINE CONDUCTANCE THRU MLI IN DOCKING PORT AREA AS
REM FUNCTION OF MEAN TEMPERATURE AND PRESSURE

D1M1MD(T505,T506,A9,A100,K30,G7006) \$
D1M1MD(T508,T509,A9,A102,K31,G7010) \$
D1M1MD(T509,T510,A9,A102,K31,G7011) \$
D1M1MD(T511,T512,A9,A102,K32,G7012) \$
D1M1MD(T512,T513,A9,A102,K32,G7013) \$
D1M1MD(T503,T504,A9,A102,K33,G7014) \$
D1M1MD(T525,T526,A9,A100,K30,G7106) \$
D1M1MD(T528,T529,A9,A101,K31,G7110) \$
D1M1MD(T529,T530,A9,A101,K31,G7111) \$
D1M1MD(T531,T532,A9,A102,K32,G7112) \$
D1M1MD(T532,T533,A9,A102,K32,G7113) \$
D1M1MD(T523,T524,A9,A102,K33,G7114) \$
D1M1MD(T545,T546,A9,A100,K30,G7206) \$
D1M1MD(T548,T549,A9,A101,K31,G7210) \$
D1M1MD(T549,T550,A9,A101,K31,G7211) \$

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D1M1MD(T551,T552,A9,A102,K32,G7212) $
D1M1MD(T552,T553,A9,A102,K32,G7213) $
D1M1MD(T543,T544,A9,A102,K33,G7214) $
D1M1MD(T565,T566,A9,A100,K30,G7306) $
D1M1MD(T568,T569,A9,A102,K31,G7310) $
D1M1MD(T569,T570,A9,A102,K31,G7311) $
D1M1MD(T571,T572,A9,A102,K32,G7312) $
D1M1MD(T572,T573,A9,A102,K32,G7313) $
D1M1MD(T563,T564,A9,A102,K33,G7314) $
REM SET ENVIRONMENT NODE TEMPERATURES
STFSEP(T122,T401)
STFSEP(T148,T402)
STFSEP(T156,T403)
STFSEP(T183,T404)
END
BCD 3VARIABLES 2
INTRAD
END
BCD 3OUTPUT CALLS
PRNTMP
END
BCD 3END OF DATA
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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1	6.070-01	4.502+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 101	LIN 101	1.371-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1001	LIN 1312	3.793-07	13	TRUSS SUPPORT
DIFF 1002	LIN 1313	3.793-07	13	TRUSS SUPPORT
DIFF 1003	LIN 1314	3.793-07	13	TRUSS SUPPORT
DIFF 1023	LIN 1315	3.793-07	13	TRUSS SUPPORT
DIFF 1022	LIN 1316	3.793-07	13	TRUSS SUPPORT
DIFF 1021	LIN 1317	3.793-07	13	TRUSS SUPPORT
DIFF 17	LIN 426	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 16	LIN 442	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 2	LIN 443	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 30	LIN 459	4.600-05	2	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
2	6.070-01	5.455+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 102	LIN 102	1.238-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1003	LIN 1308	3.793-07	13	TRUSS SUPPORT
DIFF 1002	LIN 1309	3.793-07	13	TRUSS SUPPORT
DIFF 1001	LIN 1310	3.793-07	13	TRUSS SUPPORT
DIFF 17	LIN 427	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1	LIN 443	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 3	LIN 444	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 31	LIN 460	2.490-05	2	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3	6.070-01	5.578+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 103	LIN 103	1.105-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 18	LIN 428	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 2	LIN 444	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 4	LIN 445	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 32	LIN 461	2.490-05	2,3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
4	6.070-01	5.455+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 104	LIN 104	1.238-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1071	LIN 1518	3.793-07	13	TRUSS SUPPORT
DIFF 1072	LIN 1519	3.793-07	13	TRUSS SUPPORT
DIFF 1073	LIN 1520	3.793-07	13	TRUSS SUPPORT
DIFF 18	LIN 429	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 3	LIN 445	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 5	LIN 446	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 33	LIN 462	2.490-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
5	6.070-01	4.502+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 105	LIN 105	1.371-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1051	LIN 1512	3.793-07	13	TRUSS SUPPORT
DIFF 1052	LIN 1513	3.793-07	13	TRUSS SUPPORT
DIFF 1053	LIN 1514	3.793-07	13	TRUSS SUPPORT
DIFF 1073	LIN 1515	3.793-07	13	TRUSS SUPPORT
DIFF 1072	LIN 1516	3.793-07	13	TRUSS SUPPORT
DIFF 1071	LIN 1517	3.793-07	13	TRUSS SUPPORT
DIFF 19	LIN 430	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 4	LIN 446	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 6	LIN 447	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 34	LIN 463	4.600-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
6	6.070-01	4.980+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 106	LIN 106	1.238-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1053	LIN 1508	3.793-07	13	TRUSS SUPPORT
DIFF 1052	LIN 1509	3.793-07	13	TRUSS SUPPORT
DIFF 1051	LIN 1510	3.793-07	13	TRUSS SUPPORT
DIFF 19	LIN 431	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 5	LIN 447	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 7	LIN 448	3.360-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 35	LIN 464	2.490-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
7	3.770-01	1.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 107	LIN 107	1.098-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 20	LIN 432	4.870-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 6	LIN 448	3.360-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 8	LIN 449	3.360-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 36	LIN 465	5.250-05	3	METEOROID SHIELD SIDEWALL
DIFF 685	RAD 8341	5.327-14	9	WINDOW 1 THERMAL PANE FRAME
ARTH 687	RAD 8351	7.010-14	9	WINDOW 1 MOTOR

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
8	6.070-01	4.980+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 108	LIN 108	1.238-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1121	LIN 1718	3.793-07	13	TRUSS SUPPORT
DIFF 1122	LIN 1719	3.793-07	13	TRUSS SUPPORT
DIFF 1123	LIN 1720	3.793-07	13	TRUSS SUPPORT
DIFF 20	LIN 433	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 7	LIN 449	3.360-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 9	LIN 450	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 37	LIN 466	2.490-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
9	6.070-01	4.502+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 109	LIN 109	1.371-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1101	LIN 1712	3.793-07	13	TRUSS SUPPORT
DIFF 1102	LIN 1713	3.793-07	13	TRUSS SUPPORT
DIFF 1103	LIN 1714	3.793-07	13	TRUSS SUPPORT
DIFF 1123	LIN 1715	3.793-07	13	TRUSS SUPPORT
DIFF 1122	LIN 1716	3.793-07	13	TRUSS SUPPORT
DIFF 1121	LIN 1717	3.793-07	13	TRUSS SUPPORT
DIFF 21	LIN 434	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 8	LIN 450	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 10	LIN 451	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 38	LIN 467	4.600-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
10	6.070-01	5.455+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 110	LIN 110	1.238-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1103	LIN 1708	3.793-07	13	TRUSS SUPPORT
DIFF 1102	LIN 1709	3.793-07	13	TRUSS SUPPORT
DIFF 1101	LIN 1710	3.793-07	13	TRUSS SUPPORT
DIFF 21	LIN 435	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 9	LIN 451	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 11	LIN 452	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 39	LIN 468	2.490-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
11	6.070-01	5.578+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 111	LIN 111	1.105-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 22	LIN 436	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 10	LIN 452	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 12	LIN 453	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 40	LIN 469	2.490-05	2,3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
12	6.070-01	5.455+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 112	LIN 112	1.238-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1171	LIN 1918	3.793-07	13	TRUSS SUPPORT
DIFF 1172	LIN 1919	3.793-07	13	TRUSS SUPPORT
DIFF 1173	LIN 1920	3.793-07	13	TRUSS SUPPORT
DIFF 22	LIN 437	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 11	LIN 453	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 13	LIN 454	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 41	LIN 470	2.490-05	2	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
13	6.070-01	4.502+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 113	LIN 113	1.371-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1151	LIN 1912	3.793-07	13	TRUSS SUPPORT
DIFF 1152	LIN 1913	3.793-07	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
13	6.070-01	4.502+03	1	METEOROID SHIELD TOP BULKHEAD
	TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 1153	LIN	1914	3.793-07	13 TRUSS SUPPORT
DIFF 1173	LIN	1915	3.793-07	13 TRUSS SUPPORT
DIFF 1172	LIN	1916	3.793-07	13 TRUSS SUPPORT
DIFF 1171	LIN	1917	3.793-07	13 TRUSS SUPPORT
DIFF 23	LIN	438	2.690-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 12	LIN	454	2.298-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 14	LIN	455	2.298-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 42	LIN	471	4.600-05	2 METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
14	6.070-01	4.980+03	1	METEOROID SHIELD TOP BULKHEAD
	TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 114	LIN	114	1.238-05	5 PRESSURE SHELL TOP BULKHEAD
DIFF 1153	LIN	1908	3.793-07	13 TRUSS SUPPORT
DIFF 1152	LIN	1909	3.793-07	13 TRUSS SUPPORT
DIFF 1151	LIN	1910	3.793-07	13 TRUSS SUPPORT
DIFF 23	LIN	439	2.690-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 13	LIN	455	2.298-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 15	LIN	456	3.360-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 43	LIN	472	2.490-05	2 METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
15	3.770-01	1.491+03	1	METEOROID SHIELD TOP BULKHEAD
	TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 115	LIN	115	1.098-05	5 PRESSURE SHELL TOP BULKHEAD
DIFF 24	LIN	440	4.870-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 16	LIN	441	3.360-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 14	LIN	456	3.360-05	1 METEOROID SHIELD TOP BULKHEAD
DIFF 44	LIN	457	5.250-05	2 METEOROID SHIELD SIDEWALL
DIFF 675	RAD	8342	5.327-14	9 WINDOW 2 THERMAL PANE FRAME
ARTH 677	RAD	8352	7.010-14	9 WINDOW 2 MOTOR

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
16	6.070-01	4.980+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 116	LIN 116	1.238-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1021	LIN 1318	3.793-07	13	TRUSS SUPPORT
DIFF 1022	LIN 1319	3.793-07	13	TRUSS SUPPORT
DIFF 1023	LIN 1320	3.793-07	13	TRUSS SUPPORT
DIFF 24	LIN 425	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 15	LIN 441	3.360-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1	LIN 442	2.298-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 45	LIN 458	2.490-05	2	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
17	7.450-01	5.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 117	LIN 117	1.435-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 25	LIN 409	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 24	LIN 417	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 18	LIN 418	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1	LIN 426	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 2	LIN 427	2.690-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
18	7.450-01	5.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 118	LIN 118	1.435-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 26	LIN 410	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 17	LIN 418	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 19	LIN 419	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 3	LIN 428	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 4	LIN 429	2.690-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
19	7.450-01	5.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 119	LIN 119	1.435-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 26	LIN 411	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 18	LIN 419	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 20	LIN 420	1.534-05	1	METEOROID SHIELD TOP BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
19	7.450-01	5.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 5	LIN 430	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 6	LIN 431	2.690-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
20	7.450-01	4.680+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 120	LIN 120	1.607-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 27	LIN 412	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 19	LIN 420	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 21	LIN 421	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 7	LIN 432	4.870-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 8	LIN 433	2.690-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
21	7.450-01	5.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 121	LIN 121	1.435-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 27	LIN 413	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 20	LIN 421	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 22	LIN 422	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 9	LIN 434	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 10	LIN 435	2.690-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
22	7.450-01	5.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 122	LIN 122	1.435-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 28	LIN 414	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 21	LIN 422	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 23	LIN 423	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 11	LIN 436	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 12	LIN 437	2.690-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
23	7.450-01	5.491+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 123	LIN 123	1.435-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 28	LIN 415	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 22	LIN 423	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 24	LIN 424	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 13	LIN 438	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 14	LIN 439	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
24	7.450-01	4.680+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 124	LIN 124	1.607-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 25	LIN 416	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 17	LIN 417	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 23	LIN 424	1.534-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 16	LIN 425	2.690-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 15	LIN 440	4.870-05	1	METEOROID SHIELD TOP BULKHEAD
25	7.890-01	4.787+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 125	LIN 125	1.545-05	5	PRESSURE SHELL TOP BULKHEAD
ARTH 504	LIN 401	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 26	LIN 405	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 28	LIN 408	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 17	LIN 409	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 24	LIN 416	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
26	7.890-01	4.787+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 126	LIN 126	1.545-05	5	PRESSURE SHELL TOP BULKHEAD
ARTH 504	LIN 402	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 25	LIN 405	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 27	LIN 406	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 18	LIN 410	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 19	LIN 411	3.685-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
27	7.890-01	4.787+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 127	LIN 127	1.545-05	5	PRESSURE SHELL TOP BULKHEAD
ARTH 504	LIN 403	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 26	LIN 406	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 28	LIN 407	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 20	LIN 412	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 21	LIN 413	3.685-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
28	7.890-01	4.787+03	1	METEOROID SHIELD TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 128	LIN 128	1.545-05	5	PRESSURE SHELL TOP BULKHEAD
ARTH 504	LIN 404	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 27	LIN 407	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 25	LIN 408	1.284-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 22	LIN 414	3.685-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 23	LIN 415	3.685-05	1	METEOROID SHIELD TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
30	1.116+00	4.101+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 130	LIN 130	3.448-05	6	PRESSURE SHELL SIDEWALL
DIFF 1	LIN 459	4.600-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 45	LIN 475	4.600-05	2	METEOROID SHIELD SIDEWALL
DIFF 31	LIN 476	4.600-05	2	METEOROID SHIELD SIDEWALL
DIFF 46	LIN 492	2.620-05	2	METEOROID SHIELD SIDEWALL
DIFF 654	RAD 8344	5.327-14	9	WINDOW 4 THERMAL PANE FRAME
ARTH 657	RAD 8354	7.010-14	9	WINDOW 4 MOTOR

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
31	1.355+00	8.254+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 131	LIN 131	3.714-05	6	PRESSURE SHELL SIDEWALL
DIFF 2	LIN 460	2.490-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 30	LIN 476	4.600-05	2	METEOROID SHIELD SIDEWALL
DIFF 32	LIN 477	3.720-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 47	LIN 493	1.893-05	2	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
32	1.355+00	8.721+03	2,3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 132	LIN 132	3.714-05	6,7	PRESSURE SHELL SIDEWALL
DIFF 3	LIN 461	2.490-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 31	LIN 477	3.720-05	2	METEOROID SHIELD SIDEWALL
DIFF 33	LIN 478	3.720-05	3	METEOROID SHIELD SIDEWALL
DIFF 48	LIN 494	1.893-05	2,3	METEOROID SHIELD SIDEWALL
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
33	1.355+00	8.254+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 133	LIN 133	3.714-05	7	PRESSURE SHELL SIDEWALL
DIFF 4	LIN 462	2.490-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 32	LIN 478	3.720-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 34	LIN 479	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 49	LIN 495	1.893-05	3	METEOROID SHIELD SIDEWALL
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
34	1.116+00	4.101+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 134	LIN 134	3.448-05	7	PRESSURE SHELL SIDEWALL
DIFF 5	LIN 463	4.600-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 33	LIN 479	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 35	LIN 480	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 50	LIN 496	2.620-05	3	METEOROID SHIELD SIDEWALL
DIFF 644	RAD 8343	5.327-14	9	WINDOW 3 THERMAL PANE FRAME
ARTH 647	RAD 8353	7.010-14	9	WINDOW 3 MOTOR
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
35	1.355+00	7.186+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 135	LIN 135	3.714-05	7	PRESSURE SHELL SIDEWALL
DIFF 6	LIN 464	2.490-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 34	LIN 480	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 36	LIN 481	6.160-05	3	METEOROID SHIELD SIDEWALL
DIFF 51	LIN 497	1.893-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION	
36	5.450-01	2.342+03	3	METEOROID SHIELD SIDEWALL	
TO NODE THRU CONDUCTOR CONDUCTANCE					
DIFF 136	LIN	136	1.999-05	7	PRESSURE SHELL SIDEWALL
DIFF 7	LIN	465	5.250-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 35	LIN	481	6.160-05	3	METEOROID SHIELD SIDEWALL
DIFF 37	LIN	482	6.160-05	3	METEOROID SHIELD SIDEWALL
DIFF 52	LIN	498	3.700-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION	
37	1.355+00	7.186+03	3	METEOROID SHIELD SIDEWALL	
TO NODE THRU CONDUCTOR CONDUCTANCE					
DIFF 137	LIN	137	3.714-05	7	PRESSURE SHELL SIDEWALL
DIFF 8	LIN	466	2.490-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 36	LIN	482	6.160-05	3	METEOROID SHIELD SIDEWALL
DIFF 38	LIN	483	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 53	LIN	499	1.893-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION	
38	1.116+00	4.101+03	3	METEOROID SHIELD SIDEWALL	
TO NODE THRU CONDUCTOR CONDUCTANCE					
DIFF 138	LIN	138	3.448-05	7	PRESSURE SHELL SIDEWALL
DIFF 9	LIN	467	4.600-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 37	LIN	483	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 39	LIN	484	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 54	LIN	500	2.620-05	3	METEOROID SHIELD SIDEWALL
DIFF 604	RAD	8346	5.327-14	9	WINDOW 6 THERMAL PANE FRAME
ARTH 607	RAD	8356	7.010-14	9	WINDOW 6 MOTOR

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION	
39	1.355+00	8.254+03	3	METEOROID SHIELD SIDEWALL	
TO NODE THRU CONDUCTOR CONDUCTANCE					
DIFF 139	LIN	139	3.714-05	7	PRESSURE SHELL SIDEWALL
DIFF 10	LIN	468	2.490-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 38	LIN	484	4.600-05	3	METEOROID SHIELD SIDEWALL
DIFF 40	LIN	485	3.720-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 55	LIN	501	1.893-05	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE		CSG VALUE		FIG NO	DESCRIPTION
40	1.355+00		8.721+03		2,3	METEOROID SHIELD SIDEWALL
	TO NODE	THRU CONDUCTOR	CONDUCTANCE			
DIFF	140	LIN 140	3.714-05		6,7	PRESSURE SHELL SIDEWALL
DIFF	11	LIN 469	2.490-05		1	METEOROID SHIELD TOP BULKHEAD
DIFF	39	LIN 485	3.720-05		3	METEOROID SHIELD SIDEWALL
DIFF	41	LIN 486	3.720-05		2	METEOROID SHIELD SIDEWALL
DIFF	56	LIN 502	1.893-05		2,3	METEOROID SHIELD SIDEWALL
41	1.355+00		8.254+03		2	METEOROID SHIELD SIDEWALL
	TO NODE	THRU CONDUCTOR	CONDUCTANCE			
DIFF	141	LIN 141	3.714-05		6,7	PRESSURE SHELL SIDEWALL
DIFF	12	LIN 470	2.490-05		1	METEOROID SHIELD TOP BULKHEAD
DIFF	40	LIN 486	3.720-05		2,3	METEOROID SHIELD SIDEWALL
DIFF	42	LIN 487	4.600-05		2	METEOROID SHIELD SIDEWALL
DIFF	57	LIN 503	1.893-05		2	METEOROID SHIELD SIDEWALL
42	1.116+00		4.101+03		2	METEOROID SHIELD SIDEWALL
	TO NODE	THRU CONDUCTOR	CONDUCTANCE			
DIFF	142	LIN 142	3.448-05		6	PRESSURE SHELL SIDEWALL
DIFF	13	LIN 471	4.600-05		1	METEOROID SHIELD TOP BULKHEAD
DIFF	41	LIN 487	4.600-05		2	METEOROID SHIELD SIDEWALL
DIFF	43	LIN 488	4.600-05		2	METEOROID SHIELD SIDEWALL
DIFF	58	LIN 504	2.620-05		2	METEOROID SHIELD SIDEWALL
DIFF	664	RAD 8345	5.327-14		9	WINDOW 5 THERMAL PANE FRAME
ARTH	667	RAD 8355	7.010-14		9	WINDOW 5 MOTOR
43	1.355+00		7.186+03		2	METEOROID SHIELD SIDEWALL
	TO NODE	THRU CONDUCTOR	CONDUCTANCE			
DIFF	143	LIN 143	3.714-05		6	PRESSURE SHELL SIDEWALL
DIFF	14	LIN 472	2.490-05		1	METEOROID SHIELD TOP BULKHEAD
DIFF	44	LIN 473	6.160-05		2	METEOROID SHIELD SIDEWALL
DIFF	42	LIN 488	4.600-05		2	METEOROID SHIELD SIDEWALL
DIFF	59	LIN 489	1.893-05		2	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
44	5.450-01	2.342+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 144	LIN 144	1.999-05	6	PRESSURE SHELL SIDEWALL
DIFF 15	LIN 457	5.250-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 43	LIN 473	6.160-05	2	METEOROID SHIELD SIDEWALL
DIFF 45	LIN 474	6.160-05	2	METEOROID SHIELD SIDEWALL
DIFF 60	LIN 490	3.700-05	2	METEOROID SHIELD SIDEWALL
45	1.355+00	7.186+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 145	LIN 145	3.714-05	6	PRESSURE SHELL SIDEWALL
DIFF 16	LIN 458	2.490-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 44	LIN 474	6.160-05	2	METEOROID SHIELD SIDEWALL
DIFF 30	LIN 475	4.600-05	2	METEOROID SHIELD SIDEWALL
DIFF 61	LIN 491	1.893-05	2	METEOROID SHIELD SIDEWALL
46	1.388+00	8.388+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 146	LIN 146	3.828-05	6	PRESSURE SHELL SIDEWALL
DIFF 30	LIN 492	2.620-05	2	METEOROID SHIELD SIDEWALL
DIFF 61	LIN 508	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 47	LIN 509	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 62	LIN 525	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
47	1.388+00	8.773+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 147	LIN 147	3.828-05	6	PRESSURE SHELL SIDEWALL
DIFF 31	LIN 493	1.893-05	2	METEOROID SHIELD SIDEWALL
DIFF 46	LIN 509	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 48	LIN 510	3.829-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 63	LIN 526	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
48	1.388+00	8.773+03	2,3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 148	LIN 148	3.828-05	6,7	PRESSURE SHELL SIDEWALL
DIFF 32	LIN 494	1.893-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 47	LIN 510	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 49	LIN 511	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 64	LIN 527	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
49	1.388+00	8.773+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 149	LIN 149	3.828-05	7	PRESSURE SHELL SIDEWALL
DIFF 33	LIN 495	1.893-05	3	METEOROID SHIELD SIDEWALL
DIFF 48	LIN 511	3.829-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 50	LIN 512	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 65	LIN 528	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
50	1.388+00	8.388+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 150	LIN 150	3.828-05	7	PRESSURE SHELL SIDEWALL
DIFF 34	LIN 496	2.620-05	3	METEOROID SHIELD SIDEWALL
DIFF 49	LIN 512	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 51	LIN 513	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 66	LIN 529	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
51	1.388+00	8.773+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 151	LIN 151	3.828-05	7	PRESSURE SHELL SIDEWALL
DIFF 35	LIN 497	1.893-05	3	METEOROID SHIELD SIDEWALL
DIFF 50	LIN 513	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 52	LIN 514	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 67	LIN 530	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
52	1.388+00	7.324+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 152	LIN 152	5.153-05	7	PRESSURE SHELL SIDEWALL
DIFF 36	LIN 498	3.700-05	3	METEOROID SHIELD SIDEWALL
DIFF 51	LIN 514	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 53	LIN 515	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 68	LIN 531	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
53	1.388+00	8.773+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 153	LIN 153	3.828-05	7	PRESSURE SHELL SIDEWALL
DIFF 37	LIN 499	1.893-05	3	METEOROID SHIELD SIDEWALL
DIFF 52	LIN 515	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 54	LIN 516	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 69	LIN 532	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
54	1.388+00	8.388+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 154	LIN 154	3.828-05	7	PRESSURE SHELL SIDEWALL
DIFF 38	LIN 500	2.620-05	3	METEOROID SHIELD SIDEWALL
DIFF 53	LIN 516	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 55	LIN 517	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 70	LIN 533	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
55	1.388+00	8.773+03	3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 155	LIN 155	3.828-05	7	PRESSURE SHELL SIDEWALL
DIFF 39	LIN 501	1.893-05	3	METEOROID SHIELD SIDEWALL
DIFF 54	LIN 517	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 56	LIN 518	3.829-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 71	LIN 534	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
56	1.388+00	8.773+03	2,3	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 156	LIN 156	3.828-05	6,7	PRESSURE SHELL SIDEWALL
DIFF 40	LIN 502	1.893-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 55	LIN 518	3.829-05	3	METEOROID SHIELD SIDEWALL
DIFF 57	LIN 519	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 72	LIN 535	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
57	1.388+00	8.773+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 157	LIN 157	3.828-05	6	PRESSURE SHELL SIDEWALL
DIFF 41	LIN 503	1.893-05	2	METEOROID SHIELD SIDEWALL
DIFF 56	LIN 519	3.829-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 58	LIN 520	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 73	LIN 536	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
58	1.388+00	8.388+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 158	LIN 158	3.828-05	6	PRESSURE SHELL SIDEWALL
DIFF 42	LIN 504	2.620-05	2	METEOROID SHIELD SIDEWALL
DIFF 59	LIN 505	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 57	LIN 520	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 74	LIN 521	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD
59	1.388+00	8.773+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 159	LIN 159	3.828-05	6	PRESSURE SHELL SIDEWALL
DIFF 43	LIN 489	1.893-05	2	METEOROID SHIELD SIDEWALL
DIFF 58	LIN 505	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 60	LIN 506	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 75	LIN 522	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
60	1.388+00	7.324+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 160	LIN 160	5.153-05	6	PRESSURE SHELL SIDEWALL
DIFF 44	LIN 490	3.700-05	2	METEOROID SHIELD SIDEWALL
DIFF 59	LIN 506	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 61	LIN 507	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 76	LIN 523	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
61	1.388+00	8.773+03	2	METEOROID SHIELD SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 161	LIN 161	3.828-05	6	PRESSURE SHELL SIDEWALL
DIFF 45	LIN 491	1.893-05	2	METEOROID SHIELD SIDEWALL
DIFF 60	LIN 507	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 46	LIN 508	3.829-05	2	METEOROID SHIELD SIDEWALL
DIFF 77	LIN 524	2.442-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
62	6.070-01	5.297+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 162	LIN 162	1.503-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1037	LIN 1299	3.793-07	13	TRUSS SUPPORT
DIFF 1036	LIN 1300	3.793-07	13	TRUSS SUPPORT
DIFF 1035	LIN 1301	3.793-07	13	TRUSS SUPPORT
DIFF 1016	LIN 1302	3.793-07	13	TRUSS SUPPORT
DIFF 1017	LIN 1303	3.793-07	13	TRUSS SUPPORT
DIFF 1018	LIN 1304	3.793-07	13	TRUSS SUPPORT
DIFF 46	LIN 525	2.442-05	2	METEOROID SHIELD SIDEWALL
DIFF 77	LIN 541	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 63	LIN 542	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 78	LIN 558	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
63	6.070-01	5.414+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 163	LIN 163	1.371-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1018	LIN 1305	3.793-07	13	TRUSS SUPPORT
DIFF 1017	LIN 1306	3.793-07	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
63	6.070-01	5.414+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 1016	LIN 1307	3.793-07	13	TRUSS SUPPORT
DIFF 47	LIN 526	2.442-05	2	METEOROID SHIELD SIDEWALL
DIFF 62	LIN 542	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 64	LIN 543	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 78	LIN 559	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
64	6.070-01	5.535+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 164	LIN 164	1.238-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 48	LIN 527	2.442-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 63	LIN 543	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 65	LIN 544	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 79	LIN 560	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
65	6.070-01	5.478+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 165	LIN 165	1.238-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1085	LIN 1496	3.793-07	13	TRUSS SUPPORT
DIFF 1086	LIN 1497	3.793-07	13	TRUSS SUPPORT
DIFF 1087	LIN 1498	3.793-07	13	TRUSS SUPPORT
DIFF 49	LIN 528	2.442-05	3	METEOROID SHIELD SIDEWALL
DIFF 64	LIN 544	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 66	LIN 545	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 79	LIN 561	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
66	6.070-01	5.297+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 166	LIN 166	1.503-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1087	LIN 1499	3.793-07	13	TRUSS SUPPORT
DIFF 1086	LIN 1500	3.793-07	13	TRUSS SUPPORT
DIFF 1085	LIN 1501	3.793-07	13	TRUSS SUPPORT
DIFF 1066	LIN 1502	3.793-07	13	TRUSS SUPPORT
DIFF 1067	LIN 1503	3.793-07	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
66	6.070-01	5.297+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1068	LIN 1504	3.793-07	13	TRUSS SUPPORT
DIFF 50	LIN 529	2.442-05	3	METEOROID SHIELD SIDEWALL
DIFF 65	LIN 545	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 67	LIN 546	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 80	LIN 562	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
67	6.070-01	5.414+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 167	LIN 167	1.371-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1068	LIN 1505	3.793-07	13	TRUSS SUPPORT
DIFF 1067	LIN 1506	3.793-07	13	TRUSS SUPPORT
DIFF 1066	LIN 1507	3.793-07	13	TRUSS SUPPORT
DIFF 51	LIN 530	2.442-05	3	METEOROID SHIELD SIDEWALL
DIFF 66	LIN 546	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 68	LIN 547	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 80	LIN 563	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
68	6.070-01	5.535+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 168	LIN 168	1.238-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 52	LIN 531	2.442-05	3	METEOROID SHIELD SIDEWALL
DIFF 67	LIN 547	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 69	LIN 548	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 81	LIN 564	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
69	6.070-01	5.478+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 169	LIN 169	1.238-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1135	LIN 1696	3.793-07	13	TRUSS SUPPORT
DIFF 1136	LIN 1697	3.793-07	13	TRUSS SUPPORT
DIFF 1137	LIN 1698	3.793-07	13	TRUSS SUPPORT
DIFF 53	LIN 532	2.442-05	3	METEOROID SHIELD SIDEWALL
DIFF 68	LIN 548	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
69	6.070-01	5.478+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 70	LIN	549	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 81	LIN	565	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
70	6.070-01	5.297+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 170	LIN	170	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1137	LIN	1699	13	TRUSS SUPPORT
DIFF 1136	LIN	1700	13	TRUSS SUPPORT
DIFF 1135	LIN	1701	13	TRUSS SUPPORT
DIFF 1116	LIN	1702	13	TRUSS SUPPORT
DIFF 1117	LIN	1703	13	TRUSS SUPPORT
DIFF 1118	LIN	1704	13	TRUSS SUPPORT
DIFF 54	LIN	533	3	METEOROID SHIELD SIDEWALL
DIFF 69	LIN	549	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 71	LIN	550	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 82	LIN	566	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
71	6.070-01	5.414+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 171	LIN	171	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1118	LIN	1705	13	TRUSS SUPPORT
DIFF 1117	LIN	1706	13	TRUSS SUPPORT
DIFF 1116	LIN	1707	13	TRUSS SUPPORT
DIFF 55	LIN	534	3	METEOROID SHIELD SIDEWALL
DIFF 70	LIN	550	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 72	LIN	551	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 82	LIN	567	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
72	6.070-01	5.535+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 172	LIN	172	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 56	LIN	535	2,3	METEOROID SHIELD SIDEWALL
DIFF 71	LIN	551	4	METEOROID SHIELD BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
72	6.070-01	5.535+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 73	LIN	552	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 83	LIN	568	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
73	6.070-01	5.478+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 173	LIN	173	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1185	LIN	1896	13	TRUSS SUPPORT
DIFF 1186	LIN	1897	13	TRUSS SUPPORT
DIFF 1187	LIN	1898	13	TRUSS SUPPORT
DIFF 57	LIN	536	2	METEOROID SHIELD SIDEWALL
DIFF 74	LIN	537	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 72	LIN	552	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 83	LIN	553	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
74	6.070-01	5.297+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 174	LIN	174	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1187	LIN	1899	13	TRUSS SUPPORT
DIFF 1186	LIN	1900	13	TRUSS SUPPORT
DIFF 1185	LIN	1901	13	TRUSS SUPPORT
DIFF 1166	LIN	1902	13	TRUSS SUPPORT
DIFF 1167	LIN	1903	13	TRUSS SUPPORT
DIFF 1168	LIN	1904	13	TRUSS SUPPORT
DIFF 58	LIN	521	2	METEOROID SHIELD SIDEWALL
DIFF 73	LIN	537	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 75	LIN	538	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 84	LIN	554	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
75	6.070-01	5.414+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 175	LIN	175	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1168	LIN	1905	13	TRUSS SUPPORT
DIFF 1167	LIN	1906	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
75	6.070-01	5.414+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 1166	LIN 1907	3.793-07	13	TRUSS SUPPORT
DIFF 59	LIN 522	2.442-05	2	METEOROID SHIELD SIDEWALL
DIFF 74	LIN 538	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 76	LIN 539	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 84	LIN 555	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
76	6.070-01	5.535+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 176	LIN 176	1.238-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 60	LIN 523	2.442-05	2	METEOROID SHIELD SIDEWALL
DIFF 75	LIN 539	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 77	LIN 540	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 85	LIN 556	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
77	6.070-01	5.478+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 177	LIN 177	1.238-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1035	LIN 1296	3.793-07	13	TRUSS SUPPORT
DIFF 1036	LIN 1297	3.793-07	13	TRUSS SUPPORT
DIFF 1037	LIN 1298	3.793-07	13	TRUSS SUPPORT
DIFF 61	LIN 524	2.442-05	2	METEOROID SHIELD SIDEWALL
DIFF 76	LIN 540	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 62	LIN 541	2.298-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 85	LIN 557	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
78	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 178	LIN 178	1.435-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 62	LIN 558	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 63	LIN 559	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 85	LIN 571	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 79	LIN 572	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 86	LIN 580	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
79	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 179	LIN	179	1.435-05	8 PRESSURE SHELL BOTTOM BULKHEAD
DIFF 64	LIN	560	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 65	LIN	561	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 78	LIN	572	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 80	LIN	573	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 87	LIN	581	3.685-05	4 METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
80	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 180	LIN	180	1.435-05	8 PRESSURE SHELL BOTTOM BULKHEAD
DIFF 66	LIN	562	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 67	LIN	563	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 79	LIN	573	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 81	LIN	574	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 87	LIN	582	3.685-05	4 METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
81	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 181	LIN	181	1.435-05	8 PRESSURE SHELL BOTTOM BULKHEAD
DIFF 68	LIN	564	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 69	LIN	565	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 80	LIN	574	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 82	LIN	575	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 88	LIN	583	3.685-05	4 METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
82	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 182	LIN	182	1.435-05	8 PRESSURE SHELL BOTTOM BULKHEAD
DIFF 70	LIN	566	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 71	LIN	567	2.690-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 81	LIN	575	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 83	LIN	576	1.534-05	4 METEOROID SHIELD BOTTOM BULKHEAD
DIFF 88	LIN	584	3.685-05	4 METEOROID SHIELD BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
83	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 183	LIN 183	1.435-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 73	LIN 553	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 72	LIN 568	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 84	LIN 569	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 82	LIN 576	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 89	LIN 577	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
84	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 184	LIN 184	1.435-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 74	LIN 554	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 75	LIN 555	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 83	LIN 569	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 85	LIN 570	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 89	LIN 578	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
85	7.450-01	5.491+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 185	LIN 185	1.435-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 76	LIN 556	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 77	LIN 557	2.690-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 84	LIN 570	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 78	LIN 571	1.534-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 86	LIN 579	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
86	7.890-01	4.787+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 186	LIN 186	1.545-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 85	LIN 579	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 78	LIN 580	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 89	LIN 586	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 87	LIN 587	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
ARTH 564	LIN 591	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
87	7.890-01	4.787+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 187	LIN 187	1.545-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 79	LIN 581	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 80	LIN 582	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 86	LIN 587	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 88	LIN 588	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
ARTH 564	LIN 592	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD
88	7.890-01	4.787+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 188	LIN 188	1.545-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 81	LIN 583	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 82	LIN 584	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 89	LIN 585	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 87	LIN 588	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
ARTH 564	LIN 589	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD
89	7.890-01	4.787+03	4	METEOROID SHIELD BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 189	LIN 189	1.545-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 83	LIN 577	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 84	LIN 578	3.685-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 88	LIN 585	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 86	LIN 586	1.284-05	4	METEOROID SHIELD BOTTOM BULKHEAD
ARTH 564	LIN 590	5.000-05	10	HATCH CYLINDRICAL METEOROID SHIELD
101	5.678+00	2.054+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 301	LIN 1	1.720-04		TOP BULKHEAD HARD POINT
ARTH 302	LIN 2	1.720-04		TOP BULKHEAD HARD POINT
DIFF 1	LIN 101	1.371-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 117	LIN 726	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116	LIN 742	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 102	LIN 743	1.720-04	5	PRESSURE SHELL TOP BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
101	5.678+00	2.054+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 130	LIN 759	3.000-04	6	PRESSURE SHELL SIDEWALL
DIFF 1001	LIN 1203	9.200-05	13	TRUSS SUPPORT
DIFF 1002	LIN 1206	3.270-04	13	TRUSS SUPPORT
DIFF 1003	LIN 1209	3.270-04	13	TRUSS SUPPORT
DIFF 1021	LIN 1246	9.200-05	13	TRUSS SUPPORT
DIFF 1022	LIN 1249	3.270-04	13	TRUSS SUPPORT
DIFF 1023	LIN 1292	3.270-04	13	TRUSS SUPPORT
102	7.404+00	4.047+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 302	LIN 3	1.720-04		TOP BULKHEAD HARD POINT
ARTH 303	LIN 4	1.720-04		TOP BULKHEAD HARD POINT
DIFF 2	LIN 102	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 117	LIN 727	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 101	LIN 743	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 103	LIN 744	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 131	LIN 760	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 1001	LIN 1202	9.200-05	13	TRUSS SUPPORT
DIFF 1002	LIN 1205	3.270-04	13	TRUSS SUPPORT
DIFF 1003	LIN 1208	3.270-04	13	TRUSS SUPPORT
103	8.043+00	7.433+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 303	LIN 5	1.720-04		TOP BULKHEAD HARD POINT
ARTH 304	LIN 6	1.720-04		TOP BULKHEAD HARD POINT
DIFF 3	LIN 103	1.105-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 118	LIN 728	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 102	LIN 744	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 104	LIN 745	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 132	LIN 761	1.130-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 1102	LIN 1607	5.900-31	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
104	7.404+00	4.047+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 304	LIN 7	1.720-04		TOP BULKHEAD HARD POINT
ARTH 305	LIN 8	1.720-04		TOP BULKHEAD HARD POINT
DIFF 4	LIN 104	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 118	LIN 729	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 103	LIN 745	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 746	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 133	LIN 762	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 1071	LIN 1447	9.200-05	13	TRUSS SUPPORT
DIFF 1072	LIN 1450	3.270-04	13	TRUSS SUPPORT
DIFF 1073	LIN 1493	3.270-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
105	5.428+00	1.964+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 306	LIN 10	1.720-04		TOP BULKHEAD HARD POINT
ARTH 305	LIN 9	1.720-04		TOP BULKHEAD HARD POINT
DIFF 5	LIN 105	1.371-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 119	LIN 730	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 104	LIN 746	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 106	LIN 747	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 134	LIN 763	3.000-04	7	PRESSURE SHELL SIDEWALL
DIFF 1051	LIN 1403	9.200-05	13	TRUSS SUPPORT
DIFF 1052	LIN 1406	3.270-04	13	TRUSS SUPPORT
DIFF 1053	LIN 1409	3.270-04	13	TRUSS SUPPORT
DIFF 1071	LIN 1446	9.200-05	13	TRUSS SUPPORT
DIFF 1072	LIN 1449	3.270-04	13	TRUSS SUPPORT
DIFF 1073	LIN 1492	3.270-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
106	7.404+00	3.786+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 307	LIN 12	1.720-04		TOP BULKHEAD HARD POINT
ARTH 306	LIN 11	1.720-04		TOP BULKHEAD HARD POINT
DIFF 6	LIN 106	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 119	LIN 731	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 747	1.720-04	5	PRESSURE SHELL TOP BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
106	7.404+00	3.786+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 107	LIN 748	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 135	LIN 764	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 1051	LIN 1402	9.200-05	13	TRUSS SUPPORT
DIFF 1052	LIN 1405	3.270-04	13	TRUSS SUPPORT
DIFF 1053	LIN 1408	3.270-04	13	TRUSS SUPPORT
107	5.720+00	1.185+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 308	LIN 14	2.980-04		TOP BULKHEAD HARD POINT
ARTH 307	LIN 13	2.980-04		TOP BULKHEAD HARD POINT
DIFF 7	LIN 107	1.098-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 120	LIN 732	4.600-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 106	LIN 748	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 108	LIN 749	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 136	LIN 765	4.230-04	7	PRESSURE SHELL SIDEWALL
DIFF 681	LIN 8011	2.740-03	9	WINDOW 1 FRAME ADAPTER
108	7.404+00	3.786+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 308	LIN 15	1.720-04		TOP BULKHEAD HARD POINT
ARTH 309	LIN 16	1.720-04		TOP BULKHEAD HARD POINT
DIFF 8	LIN 108	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 120	LIN 733	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 107	LIN 749	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 109	LIN 750	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 137	LIN 766	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 1121	LIN 1647	9.200-05	13	TRUSS SUPPORT
DIFF 1122	LIN 1650	3.270-04	13	TRUSS SUPPORT
DIFF 1123	LIN 1693	3.270-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
109	5.428+00	1.964+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 309	LIN 17	1.720-04		TOP BULKHEAD HARD POINT
ARTH 310	LIN 18	1.720-04		TOP BULKHEAD HARD POINT
DIFF 9	LIN 109	1.371-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 121	LIN 734	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 108	LIN 750	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 110	LIN 751	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 138	LIN 767	3.000-04	7	PRESSURE SHELL SIDEWALL
DIFF 1101	LIN 1603	9.200-05	13	TRUSS SUPPORT
DIFF 1102	LIN 1606	3.270-04	13	TRUSS SUPPORT
DIFF 1103	LIN 1609	3.270-04	13	TRUSS SUPPORT
DIFF 1121	LIN 1646	9.200-05	13	TRUSS SUPPORT
DIFF 1122	LIN 1649	3.270-04	13	TRUSS SUPPORT
DIFF 1123	LIN 1692	3.270-04	13	TRUSS SUPPORT
110	7.404+00	3.980+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 311	LIN 20	1.720-04		TOP BULKHEAD HARD POINT
ARTH 310	LIN 19	1.720-04		TOP BULKHEAD HARD POINT
DIFF 10	LIN 110	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 121	LIN 735	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 109	LIN 751	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 111	LIN 752	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 139	LIN 768	1.438-04	7	PRESSURE SHELL SIDEWALL
DIFF 1101	LIN 1602	9.200-05	13	TRUSS SUPPORT
DIFF 1102	LIN 1605	3.270-04	13	TRUSS SUPPORT
DIFF 1103	LIN 1608	3.270-04	13	TRUSS SUPPORT
111	8.043+00	7.227+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 311	LIN 21	1.720-04		TOP BULKHEAD HARD POINT
ARTH 312	LIN 22	1.720-04		TOP BULKHEAD HARD POINT
DIFF 11	LIN 111	1.105-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 122	LIN 736	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 110	LIN 752	1.720-04	5	PRESSURE SHELL TOP BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
111	8.043+00	7.227+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 112	LIN 753	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 140	LIN 769	1.438-04	6,7	PRESSURE SHELL SIDEWALL
112	7.404+00	3.980+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 312	LIN 23	1.720-04		TOP BULKHEAD HARD POINT
ARTH 313	LIN 24	1.720-04		TOP BULKHEAD HARD POINT
DIFF 12	LIN 112	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 122	LIN 737	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 111	LIN 753	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113	LIN 754	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 141	LIN 770	1.438-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 1171	LIN 1847	9.200-05	13	TRUSS SUPPORT
DIFF 1172	LIN 1850	3.270-04	13	TRUSS SUPPORT
DIFF 1173	LIN 1893	3.270-04	13	TRUSS SUPPORT
113	5.428+00	1.952+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 313	LIN 25	1.720-04		TOP BULKHEAD HARD POINT
ARTH 314	LIN 26	1.720-04		TOP BULKHEAD HARD POINT
DIFF 13	LIN 113	1.371-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 123	LIN 738	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 112	LIN 754	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 114	LIN 755	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 142	LIN 771	3.170-04	6	PRESSURE SHELL SIDEWALL
DIFF 1151	LIN 1803	9.200-05	13	TRUSS SUPPORT
DIFF 1152	LIN 1806	3.270-04	13	TRUSS SUPPORT
DIFF 1153	LIN 1809	3.270-04	13	TRUSS SUPPORT
DIFF 1171	LIN 1846	9.200-05	13	TRUSS SUPPORT
DIFF 1172	LIN 1849	3.270-04	13	TRUSS SUPPORT
DIFF 1173	LIN 1892	3.270-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
114	7.654+00	3.914+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 314	LIN 27	1.720-04		TOP BULKHEAD HARD POINT
ARTH 315	LIN 28	1.720-04		TOP BULKHEAD HARD POINT
DIFF 14	LIN 114	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 123	LIN 739	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113	LIN 755	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 115	LIN 756	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 143	LIN 772	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 1151	LIN 1802	9.200-05	13	TRUSS SUPPORT
DIFF 1152	LIN 1805	3.270-04	13	TRUSS SUPPORT
DIFF 1153	LIN 1808	3.270-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
115	5.970+00	1.237+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 315	LIN 29	2.980-04		TOP BULKHEAD HARD POINT
ARTH 316	LIN 30	2.980-04		TOP BULKHEAD HARD POINT
DIFF 15	LIN 115	1.098-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 124	LIN 740	4.600-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116	LIN 741	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 114	LIN 756	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 144	LIN 757	4.230-04	6	PRESSURE SHELL SIDEWALL
DIFF 671	LIN 8012	2.740-03	9	WINDOW 2 FRAME ADAPTER

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
116	7.654+00	3.914+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 316	LIN 31	1.720-04		TOP BULKHEAD HARD POINT
ARTH 301	LIN 32	1.720-04		TOP BULKHEAD HARD POINT
DIFF 16	LIN 116	1.238-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 124	LIN 725	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 115	LIN 741	2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 101	LIN 742	1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 145	LIN 758	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 1021	LIN 1247	9.200-05	13	TRUSS SUPPORT
DIFF 1022	LIN 1250	3.270-04	13	TRUSS SUPPORT
DIFF 1023	LIN 1293	3.270-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
117	9.020+00	1.394+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 17	LIN 117	1.435-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 125	LIN 709	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 124	LIN 717	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 118	LIN 718	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 101	LIN 726	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 102	LIN 727	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1021	LIN 1244	3.800-04	13	TRUSS SUPPORT
ARTH 317	LIN 37	3.550-03		TOP BULKHEAD HARD POINT
DIFF 1001	LIN 1201	1.124-03	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
118	9.659+00	1.807+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 18	LIN 118	1.435-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 126	LIN 710	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 117	LIN 718	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 119	LIN 719	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 103	LIN 728	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 104	LIN 729	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1071	LIN 1445	3.800-04	13	TRUSS SUPPORT
ARTH 318	LIN 38	3.550-03		TOP BULKHEAD HARD POINT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
119	9.470+00	1.464+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 19	LIN 119	1.435-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 126	LIN 711	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 118	LIN 719	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 120	LIN 720	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 730	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 106	LIN 731	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1071	LIN 1444	3.800-04	13	TRUSS SUPPORT
ARTH 319	LIN 39	3.550-03		TOP BULKHEAD HARD POINT
DIFF 1051	LIN 1401	1.124-03	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
120	1.007+01	1.599+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 20	LIN 120	1.607-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 127	LIN 712	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 119	LIN 720	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 121	LIN 721	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 107	LIN 732	4.600-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 108	LIN 733	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1121	LIN 1645	3.800-04	13	TRUSS SUPPORT
ARTH 340	LIN 2001	7.600-04		FEEDTHRU
ARTH 320	LIN 40	3.550-03		TOP BULKHEAD HARD POINT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
121	9.020+00	1.394+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 21	LIN 121	1.435-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 127	LIN 713	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 120	LIN 721	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 122	LIN 722	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 109	LIN 734	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 110	LIN 735	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1121	LIN 1644	3.800-04	13	TRUSS SUPPORT
ARTH 321	LIN 41	3.550-03		TOP BULKHEAD HARD POINT
DIFF 1101	LIN 1601	1.124-03	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
122	9.659+00	1.807+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 22	LIN 122	1.435-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 128	LIN 714	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 121	LIN 722	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 123	LIN 723	1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 111	LIN 736	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 112	LIN 737	2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1171	LIN 1845	3.800-04	13	TRUSS SUPPORT
ARTH 322	LIN 42	3.550-03		TOP BULKHEAD HARD POINT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
123	9.020+00	1.394+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 23 LIN 123		1.435-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 128 LIN 715		4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 122 LIN 723		1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 124 LIN 724		1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113 LIN 738		2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 114 LIN 739		2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1171 LIN 1844		3.800-04	13	TRUSS SUPPORT
ARTH 323 LIN 43		3.550-03		TOP BULKHEAD HARD POINT
DIFF 1151 LIN 1801		1.124-03	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
124	1.082+01	1.718+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 24 LIN 124		1.607-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 125 LIN 716		4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 117 LIN 717		1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 123 LIN 724		1.900-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116 LIN 725		2.700-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 115 LIN 740		4.600-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1021 LIN 1245		3.800-04	13	TRUSS SUPPORT
ARTH 341 LIN 2002		7.600-04		FEEDTHRU
ARTH 324 LIN 44		3.550-03		TOP BULKHEAD HARD POINT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
125	3.270+01	8.023+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 325 LIN 33		1.870-04		TOP BULKHEAD HARD POINT
DIFF 25 LIN 125		1.545-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 126 LIN 705		1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 128 LIN 708		1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 117 LIN 709		4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 124 LIN 716		4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 503 LIN 7036		2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 501 LIN 701		2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 904 LIN 5013		1.476-05	12	THCP SUPPLY PLENUM

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
126	3.300+01	7.392+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 326	LIN 34	1.870-04		TOP BULKHEAD HARD POINT
DIFF 26	LIN 126	1.545-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 125	LIN 705	1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 127	LIN 706	1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 118	LIN 710	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 119	LIN 711	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
ARTH 509	LIN 7004	4.000-05	10	MOTOR COMPONENTS
ARTH 505	LIN 7005	3.480-04	10	MOTOR
DIFF 503	LIN 7037	2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 501	LIN 702	2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 904	LIN 5014	3.719-06	12	THCP SUPPLY PLENUM
DIFF 905	LIN 5015	1.107-05	12	THCP SUPPLY PLENUM

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
127	3.225+01	7.912+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 327	LIN 35	1.870-04		TOP BULKHEAD HARD POINT
DIFF 27	LIN 127	1.545-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 126	LIN 706	1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 128	LIN 707	1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 120	LIN 712	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 121	LIN 713	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 503	LIN 7035	2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 501	LIN 703	2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 905	LIN 5016	1.476-05	12	THCP SUPPLY PLENUM

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
128	3.267+01	6.692+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 328	LIN 36	1.870-04		TOP BULKHEAD HARD POINT
DIFF 28	LIN 128	1.545-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF 127	LIN 707	1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 125	LIN 708	1.870-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 122	LIN 714	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 123	LIN 715	4.820-04	5	PRESSURE SHELL TOP BULKHEAD
ARTH 342	LIN 2003	7.460-04		FEEDTHRU

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
128	3.267+01	6.692+03	5	PRESSURE SHELL TOP BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 503	LIN 7034	2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 501	LIN 704	2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 901	LIN 5011	6.658-05	12	THCP SUPPLY ADAPTER
DIFF 904	LIN 5012	7.353-06	12	THCP SUPPLY PLENUM
130	4.286+00	1.698+03	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 30	LIN 130	3.448-05	2	METEOROID SHIELD SIDEWALL
DIFF 101	LIN 759	3.000-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 145	LIN 775	2.150-04	6	PRESSURE SHELL SIDEWALL
DIFF 131	LIN 776	2.150-04	6	PRESSURE SHELL SIDEWALL
DIFF 146	LIN 792	1.650-04	6	PRESSURE SHELL SIDEWALL
DIFF 651	LIN 8014	1.595-03	9	WINDOW 4 FRAME ADAPTER
131	5.788+00	4.021+03	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 31	LIN 131	3.714-05	2	METEOROID SHIELD SIDEWALL
DIFF 102	LIN 760	1.130-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 130	LIN 776	2.150-04	6	PRESSURE SHELL SIDEWALL
DIFF 132	LIN 777	1.400-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 147	LIN 793	9.440-05	6	PRESSURE SHELL SIDEWALL
ARTH 343	LIN 2004	8.400-04		FEEDTHRU
132	5.056+00	9.639+03	6,7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 32	LIN 132	3.714-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 103	LIN 761	1.130-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 131	LIN 777	1.400-04	6	PRESSURE SHELL SIDEWALL
DIFF 133	LIN 778	1.400-04	7	PRESSURE SHELL SIDEWALL
DIFF 148	LIN 794	9.440-05	6,7	PRESSURE SHELL SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
133	5.788+00	3.063+03	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 33	LIN 133	3.714-05	3	METEOROID SHIELD SIDEWALL
DIFF 104	LIN 762	1.130-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 132	LIN 778	1.400-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 134	LIN 779	2.150-04	7	PRESSURE SHELL SIDEWALL
DIFF 149	LIN 795	9.440-05	7	PRESSURE SHELL SIDEWALL
ARTH 344	LIN 2005	1.290-03		FEEDTHRU

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
134	4.586+00	1.817+03	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 34	LIN 134	3.448-05	3	METEOROID SHIELD SIDEWALL
DIFF 105	LIN 763	3.000-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 133	LIN 779	2.150-04	7	PRESSURE SHELL SIDEWALL
DIFF 135	LIN 780	2.150-04	7	PRESSURE SHELL SIDEWALL
DIFF 150	LIN 796	1.650-04	7	PRESSURE SHELL SIDEWALL
DIFF 641	LIN 8013	1.595-03	9	WINDOW 3 FRAME ADAPTER

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
135	5.656+00	5.699+03	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 35	LIN 135	3.714-05	3	METEOROID SHIELD SIDEWALL
DIFF 106	LIN 764	1.130-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 134	LIN 780	2.150-04	7	PRESSURE SHELL SIDEWALL
DIFF 136	LIN 781	2.800-04	7	PRESSURE SHELL SIDEWALL
DIFF 151	LIN 797	9.440-05	7	PRESSURE SHELL SIDEWALL
ARTH 529	LIN 7104	4.900-05	10	MOTOR COMPONENTS
ARTH 525	LIN 7105	2.040-04	10	MOTOR

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
136	8.937+00	7.887+02	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 36	LIN 136	1.999-05	3	METEOROID SHIELD SIDEWALL
DIFF 107	LIN 765	4.230-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 135	LIN 781	2.800-04	7	PRESSURE SHELL SIDEWALL
DIFF 137	LIN 782	2.800-04	7	PRESSURE SHELL SIDEWALL
DIFF 152	LIN 798	2.490-04	7	PRESSURE SHELL SIDEWALL

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
136	8.937+00	7.887+02	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 521	LIN 7101	5.040-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 523	LIN 7115	5.040-03	10	CYLINDRICAL OUTER DOCKING HATCH

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
137	7.361+00	3.627+03	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 37	LIN 137	3.714-05	3	METEOROID SHIELD SIDEWALL
DIFF 108	LIN 766	1.130-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 136	LIN 782	2.800-04	7	PRESSURE SHELL SIDEWALL
DIFF 138	LIN 783	2.150-04	7	PRESSURE SHELL SIDEWALL
DIFF 153	LIN 799	9.440-05	7	PRESSURE SHELL SIDEWALL
ARTH 345	LIN 2006	1.290-03		FEEDTHRU

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
138	5.209+00	2.065+03	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 38	LIN 138	3.448-05	3	METEOROID SHIELD SIDEWALL
DIFF 109	LIN 767	3.000-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 137	LIN 783	2.150-04	7	PRESSURE SHELL SIDEWALL
DIFF 139	LIN 784	2.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 154	LIN 800	1.650-04	7	PRESSURE SHELL SIDEWALL
DIFF 601	LIN 8016	1.595-03	9	WINDOW 6 FRAME ADAPTER

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
139	6.761+00	3.924+03	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 39	LIN 139	3.714-05	3	METEOROID SHIELD SIDEWALL
DIFF 110	LIN 768	1.438-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 138	LIN 784	2.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 140	LIN 785	1.730-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 155	LIN 801	1.160-04	7	PRESSURE SHELL SIDEWALL
ARTH 346	LIN 2007	1.040-03		FEEDTHRU

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
140	5.829+00	9.066+03	6,7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 40	LIN 140	3.714-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 111	LIN 769	1.438-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 139	LIN 785	1.730-04	7	PRESSURE SHELL SIDEWALL
DIFF 141	LIN 786	1.730-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 156	LIN 802	1.160-04	6,7	PRESSURE SHELL SIDEWALL
141	6.761+00	3.094+03	6,7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 41	LIN 141	3.714-05	2	METEOROID SHIELD SIDEWALL
DIFF 112	LIN 770	1.438-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 140	LIN 786	1.730-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 142	LIN 787	2.450-04	6	PRESSURE SHELL SIDEWALL
DIFF 157	LIN 803	1.160-04	6	PRESSURE SHELL SIDEWALL
ARTH 347	LIN 2008	1.470-03		FEEDTHRU
142	4.909+00	1.886+03	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 42	LIN 142	3.448-05	2	METEOROID SHIELD SIDEWALL
DIFF 113	LIN 771	3.170-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 141	LIN 787	2.450-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 143	LIN 788	2.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 158	LIN 804	1.980-04	6	PRESSURE SHELL SIDEWALL
DIFF 661	LIN 8015	1.595-03	9	WINDOW 5 FRAME ADAPTER
143	6.279+00	6.339+03	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 43	LIN 143	3.714-05	2	METEOROID SHIELD SIDEWALL
DIFF 114	LIN 772	1.130-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 144	LIN 773	2.800-04	6	PRESSURE SHELL SIDEWALL
DIFF 142	LIN 788	2.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 159	LIN 789	9.440-05	6	PRESSURE SHELL SIDEWALL
ARTH 549	LIN 7204	4.900-05	10	MOTOR COMPONENTS
ARTH 545	LIN 7205	2.040-04	10	MOTOR

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
144	9.237+00	8.151+02	6	PRESSURE SHELL SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 44	LIN 144	1.999-05	2	METEOROID SHIELD SIDEWALL
DIFF 115	LIN 757	4.230-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 143	LIN 773	2.800-04	6	PRESSURE SHELL SIDEWALL
DIFF 145	LIN 774	2.800-04	6	PRESSURE SHELL SIDEWALL
DIFF 160	LIN 790	2.490-04	6	PRESSURE SHELL SIDEWALL
DIFF 541	LIN 7201	5.040-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 543	LIN 7215	5.040-03	10	CYLINDRICAL OUTER DOCKING HATCH

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
145	6.688+00	3.295+03	6	PRESSURE SHELL SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 45	LIN 145	3.714-05	2	METEOROID SHIELD SIDEWALL
DIFF 116	LIN 758	1.130-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 144	LIN 774	2.800-04	6	PRESSURE SHELL SIDEWALL
DIFF 130	LIN 775	2.150-04	6	PRESSURE SHELL SIDEWALL
DIFF 161	LIN 791	9.440-05	6	PRESSURE SHELL SIDEWALL
ARTH 348	LIN 2009	1.290-03		FEEDTHRU

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
146	7.034+00	1.168+04	6	PRESSURE SHELL SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 46	LIN 146	3.828-05	2	METEOROID SHIELD SIDEWALL
DIFF 130	LIN 792	1.650-04	6	PRESSURE SHELL SIDEWALL
DIFF 161	LIN 808	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 147	LIN 809	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 162	LIN 825	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
147	7.034+00	1.323+04	6	PRESSURE SHELL SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 47	LIN 147	3.828-05	2	METEOROID SHIELD SIDEWALL
DIFF 131	LIN 793	9.440-05	6	PRESSURE SHELL SIDEWALL
DIFF 146	LIN 809	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 148	LIN 810	1.430-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 163	LIN 826	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
148	7.034+00	1.323+04	6,7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 48 LIN 148		3.828-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 132 LIN 794		9.440-05	6,7	PRESSURE SHELL SIDEWALL
DIFF 147 LIN 810		1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 149 LIN 811		1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 164 LIN 827		1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
149	7.034+00	1.323+04	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 49 LIN 149		3.828-05	3	METEOROID SHIELD SIDEWALL
DIFF 133 LIN 795		9.440-05	7	PRESSURE SHELL SIDEWALL
DIFF 148 LIN 811		1.430-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 150 LIN 812		1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 165 LIN 828		1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
150	7.409+00	1.230+04	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 50 LIN 150		3.828-05	3	METEOROID SHIELD SIDEWALL
DIFF 134 LIN 796		1.650-04	7	PRESSURE SHELL SIDEWALL
DIFF 149 LIN 812		1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 151 LIN 813		1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 166 LIN 829		1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
151	7.334+00	1.379+04	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 51 LIN 151		3.828-05	3	METEOROID SHIELD SIDEWALL
DIFF 135 LIN 797		9.440-05	7	PRESSURE SHELL SIDEWALL
DIFF 150 LIN 813		1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 152 LIN 814		1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 167 LIN 830		1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
152	1.336+01	1.910+04	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 52	LIN 152	5.153-05	3	METEOROID SHIELD SIDEWALL
DIFF 136	LIN 798	2.490-04	7	PRESSURE SHELL SIDEWALL
DIFF 151	LIN 814	1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 153	LIN 815	1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 168	LIN 831	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
153	8.577+00	1.613+04	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 53	LIN 153	3.828-05	3	METEOROID SHIELD SIDEWALL
DIFF 137	LIN 799	9.440-05	7	PRESSURE SHELL SIDEWALL
DIFF 152	LIN 815	1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 154	LIN 816	1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 169	LIN 832	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
154	8.877+00	1.445+04	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 54	LIN 154	3.828-05	3	METEOROID SHIELD SIDEWALL
DIFF 138	LIN 800	1.650-04	7	PRESSURE SHELL SIDEWALL
DIFF 153	LIN 816	1.430-04	7	PRESSURE SHELL SIDEWALL
DIFF 155	LIN 817	1.550-04	7	PRESSURE SHELL SIDEWALL
DIFF 170	LIN 833	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
155	8.577+00	1.374+04	7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 55	LIN 155	3.828-05	3	METEOROID SHIELD SIDEWALL
DIFF 139	LIN 801	1.160-04	7	PRESSURE SHELL SIDEWALL
DIFF 154	LIN 817	1.550-04	7	PRESSURE SHELL SIDEWALL
DIFF 156	LIN 818	1.710-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 171	LIN 834	1.438-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
156	8.577+00	1.340+04	6,7	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 56	LIN 156	3.828-05	2,3	METEOROID SHIELD SIDEWALL
DIFF 140	LIN 802	1.160-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 155	LIN 818	1.710-04	7	PRESSURE SHELL SIDEWALL
DIFF 157	LIN 819	1.710-04	6	PRESSURE SHELL SIDEWALL
DIFF 172	LIN 835	1.438-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
157	8.577+00	1.340+04	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 57	LIN 157	3.828-05	2	METEOROID SHIELD SIDEWALL
DIFF 141	LIN 803	1.160-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 156	LIN 819	1.710-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 158	LIN 820	1.710-04	6	PRESSURE SHELL SIDEWALL
DIFF 173	LIN 836	1.438-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
158	8.577+00	1.215+04	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 58	LIN 158	3.828-05	2	METEOROID SHIELD SIDEWALL
DIFF 142	LIN 804	1.980-04	6	PRESSURE SHELL SIDEWALL
DIFF 159	LIN 805	1.550-04	6	PRESSURE SHELL SIDEWALL
DIFF 157	LIN 820	1.710-04	6	PRESSURE SHELL SIDEWALL
DIFF 174	LIN 821	1.438-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
159	8.577+00	1.578+04	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 59	LIN 159	3.828-05	2	METEOROID SHIELD SIDEWALL
DIFF 143	LIN 789	9.440-05	6	PRESSURE SHELL SIDEWALL
DIFF 158	LIN 805	1.550-04	6	PRESSURE SHELL SIDEWALL
DIFF 160	LIN 806	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 175	LIN 822	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
160	1.336+01	1.910+04	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 60	LIN 160	5.153-05	2	METEOROID SHIELD SIDEWALL
DIFF 144	LIN 790	2.490-04	6	PRESSURE SHELL SIDEWALL
DIFF 159	LIN 806	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 161	LIN 807	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 176	LIN 823	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD
161	7.034+00	1.323+04	6	PRESSURE SHELL SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 61	LIN 161	3.828-05	2	METEOROID SHIELD SIDEWALL
DIFF 145	LIN 791	9.440-05	6	PRESSURE SHELL SIDEWALL
DIFF 160	LIN 807	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 146	LIN 808	1.430-04	6	PRESSURE SHELL SIDEWALL
DIFF 177	LIN 824	1.130-04	8	PRESSURE SHELL BOTTOM BULKHEAD
162	7.705+00	2.989+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 362	LIN 50	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 363	LIN 51	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 62	LIN 162	1.503-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 146	LIN 825	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 177	LIN 841	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 163	LIN 842	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 178	LIN 858	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1016	LIN 1238	3.270-04	13	TRUSS SUPPORT
DIFF 1017	LIN 1241	3.270-04	13	TRUSS SUPPORT
DIFF 1035	LIN 1278	3.270-04	13	TRUSS SUPPORT
DIFF 1036	LIN 1281	3.270-04	13	TRUSS SUPPORT
DIFF 1018	LIN 1291	9.200-05	13	TRUSS SUPPORT
DIFF 1037	LIN 1294	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
163	9.623+00	5.256+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 363	LIN 52	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 364	LIN 53	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 63	LIN 163	1.371-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 147	LIN 826	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 162	LIN 842	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 164	LIN 843	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 178	LIN 859	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1016	LIN 1237	3.270-04	13	TRUSS SUPPORT
DIFF 1017	LIN 1240	3.270-04	13	TRUSS SUPPORT
DIFF 1018	LIN 1290	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
164	1.026+01	9.473+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 364	LIN 54	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 365	LIN 55	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 64	LIN 164	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 148	LIN 827	1.130-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 163	LIN 843	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 165	LIN 844	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 179	LIN 860	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
165	1.011+01	3.476+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 365	LIN 56	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 366	LIN 57	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 65	LIN 165	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 149	LIN 828	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 164	LIN 844	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 166	LIN 845	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 179	LIN 861	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1085	LIN 1479	3.270-04	13	TRUSS SUPPORT
DIFF 1086	LIN 1482	3.270-04	13	TRUSS SUPPORT
DIFF 1087	LIN 1495	9.200-05	13	TRUSS SUPPORT
ARTH 349	LIN 2010	1.080-03		FEEDTHRU

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
166	7.855+00	3.047+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 366	LIN 58	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 367	LIN 59	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 66	LIN 166	1.503-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 150	LIN 829	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 165	LIN 845	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 167	LIN 846	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 180	LIN 862	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1066	LIN 1438	3.270-04	13	TRUSS SUPPORT
DIFF 1067	LIN 1441	3.270-04	13	TRUSS SUPPORT
DIFF 1085	LIN 1478	3.270-04	13	TRUSS SUPPORT
DIFF 1086	LIN 1481	3.270-04	13	TRUSS SUPPORT
DIFF 1068	LIN 1491	9.200-05	13	TRUSS SUPPORT
DIFF 1087	LIN 1494	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
167	9.923+00	5.420+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 367	LIN 60	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 368	LIN 61	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 67	LIN 167	1.371-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 151	LIN 830	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 166	LIN 846	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 168	LIN 847	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 180	LIN 863	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1066	LIN 1437	3.270-04	13	TRUSS SUPPORT
DIFF 1067	LIN 1440	3.270-04	13	TRUSS SUPPORT
DIFF 1068	LIN 1490	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
168	1.056+01	9.750+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 368	LIN 62	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 369	LIN 63	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 68	LIN 168	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 152	LIN 831	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 167	LIN 847	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
168	1.056+01	9.750+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 169	LIN 848	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 181	LIN 864	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
169	1.071+01	3.683+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 369	LIN 64	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 370	LIN 65	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 69	LIN 169	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 153	LIN 832	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 168	LIN 848	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 170	LIN 849	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 181	LIN 865	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1135	LIN 1679	3.270-04	13	TRUSS SUPPORT
DIFF 1136	LIN 1682	3.270-04	13	TRUSS SUPPORT
DIFF 1137	LIN 1695	9.200-05	13	TRUSS SUPPORT
ARTH 350	LIN 2011	1.080-03		FEEDTHRU
170	8.005+00	3.105+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 370	LIN 66	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 371	LIN 67	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 70	LIN 170	1.503-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 154	LIN 833	1.130-04	7	PRESSURE SHELL SIDEWALL
DIFF 169	LIN 849	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 171	LIN 850	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 182	LIN 866	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1116	LIN 1638	3.270-04	13	TRUSS SUPPORT
DIFF 1117	LIN 1641	3.270-04	13	TRUSS SUPPORT
DIFF 1135	LIN 1678	3.270-04	13	TRUSS SUPPORT
DIFF 1136	LIN 1681	3.270-04	13	TRUSS SUPPORT
DIFF 1118	LIN 1691	9.200-05	13	TRUSS SUPPORT
DIFF 1137	LIN 1694	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
171	9.623+00	5.169+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 371	LIN 68	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 372	LIN 69	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 71	LIN 171	1.371-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 155	LIN 834	1.438-04	7	PRESSURE SHELL SIDEWALL
DIFF 170	LIN 850	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 172	LIN 851	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 182	LIN 867	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1116	LIN 1637	3.270-04	13	TRUSS SUPPORT
DIFF 1117	LIN 1640	3.270-04	13	TRUSS SUPPORT
DIFF 1118	LIN 1690	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
172	1.026+01	9.211+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 372	LIN 70	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 373	LIN 71	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 72	LIN 172	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 156	LIN 835	1.438-04	6,7	PRESSURE SHELL SIDEWALL
DIFF 171	LIN 851	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 173	LIN 852	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 183	LIN 868	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
173	1.011+01	3.440+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 373	LIN 72	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 374	LIN 73	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 73	LIN 173	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 157	LIN 836	1.438-04	6	PRESSURE SHELL SIDEWALL
DIFF 174	LIN 837	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 172	LIN 852	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 183	LIN 853	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1185	LIN 1879	3.270-04	13	TRUSS SUPPORT
DIFF 1186	LIN 1882	3.270-04	13	TRUSS SUPPORT
DIFF 1187	LIN 1895	9.200-05	13	TRUSS SUPPORT
ARTH 351	LIN 2012	1.080-03		FEEDTHRU

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
174	7.705+00	2.953+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 374	LIN 74	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 375	LIN 75	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 74	LIN 174	1.503-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 158	LIN 821	1.438-04	6	PRESSURE SHELL SIDEWALL
DIFF 173	LIN 837	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 175	LIN 838	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 184	LIN 854	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1166	LIN 1838	3.270-04	13	TRUSS SUPPORT
DIFF 1167	LIN 1841	3.270-04	13	TRUSS SUPPORT
DIFF 1185	LIN 1878	3.270-04	13	TRUSS SUPPORT
DIFF 1186	LIN 1881	3.270-04	13	TRUSS SUPPORT
DIFF 1168	LIN 1891	9.200-05	13	TRUSS SUPPORT
DIFF 1187	LIN 1894	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
175	9.623+00	5.256+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 375	LIN 76	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 376	LIN 77	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 75	LIN 175	1.371-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 159	LIN 822	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 174	LIN 838	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 176	LIN 839	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 184	LIN 855	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1166	LIN 1837	3.270-04	13	TRUSS SUPPORT
DIFF 1167	LIN 1840	3.270-04	13	TRUSS SUPPORT
DIFF 1168	LIN 1890	9.200-05	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
176	1.026+01	9.473+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 376	LIN 78	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 377	LIN 79	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 76	LIN 176	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 160	LIN 823	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 175	LIN 839	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
176	1.026+01	9.473+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 177	LIN 840	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 185	LIN 856	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
177	1.011+01	3.476+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 377	LIN 80	1.720-04		BOTTOM BULKHEAD HARD POINT
ARTH 362	LIN 81	1.720-04		BOTTOM BULKHEAD HARD POINT
DIFF 77	LIN 177	1.238-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 161	LIN 824	1.130-04	6	PRESSURE SHELL SIDEWALL
DIFF 176	LIN 840	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 162	LIN 841	1.720-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 185	LIN 857	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1035	LIN 1279	3.270-04	13	TRUSS SUPPORT
DIFF 1036	LIN 1282	3.270-04	13	TRUSS SUPPORT
DIFF 1037	LIN 1295	9.200-05	13	TRUSS SUPPORT
ARTH 352	LIN 2013	1.080-03		FEEDTHRU
178	9.482+00	1.465+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 78	LIN 178	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 162	LIN 858	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 163	LIN 859	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 185	LIN 871	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 179	LIN 872	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 186	LIN 880	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1037	LIN 1284	3.800-04	13	TRUSS SUPPORT
ARTH 378	LIN 86	3.550-03		BOTTOM BULKHEAD HARD POINT
DIFF 1018	LIN 1243	1.124-03	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
179	1.012+01	1.893+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 79	LIN 179	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 164	LIN 860	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 165	LIN 861	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 178	LIN 872	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 180	LIN 873	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 187	LIN 881	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1087	LIN 1485	3.800-04	13	TRUSS SUPPORT
ARTH 379	LIN 87	3.550-03		BOTTOM BULKHEAD HARD POINT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
180	9.482+00	1.465+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 80	LIN 180	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 166	LIN 862	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 167	LIN 863	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 179	LIN 873	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 181	LIN 874	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 187	LIN 882	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1087	LIN 1484	3.800-04	13	TRUSS SUPPORT
ARTH 380	LIN 88	3.550-03		BOTTOM BULKHEAD HARD POINT
DIFF 1068	LIN 1443	1.124-03	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
181	1.012+01	1.893+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 81	LIN 181	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 168	LIN 864	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 169	LIN 865	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 180	LIN 874	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 182	LIN 875	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 188	LIN 883	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1137	LIN 1685	3.800-04	13	TRUSS SUPPORT
ARTH 381	LIN 89	3.550-03		BOTTOM BULKHEAD HARD POINT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION	
182	9.482+00	1.465+03	8	PRESSURE SHELL BOTTOM BULKHEAD	
TO NODE THRU CONDUCTOR CONDUCTANCE					
DIFF 82	LIN	182	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 170	LIN	866	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 171	LIN	867	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 181	LIN	875	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 183	LIN	876	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 188	LIN	884	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1137	LIN	1684	3.800-04	13	TRUSS SUPPORT
ARTH 382	LIN	90	3.550-03		BOTTOM BULKHEAD HARD POINT
DIFF 1118	LIN	1643	1.124-03	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION	
183	1.012+01	1.893+03	8	PRESSURE SHELL BOTTOM BULKHEAD	
TO NODE THRU CONDUCTOR CONDUCTANCE					
DIFF 83	LIN	183	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 173	LIN	853	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 172	LIN	868	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 184	LIN	869	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 182	LIN	876	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 189	LIN	877	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1187	LIN	1885	3.800-04	13	TRUSS SUPPORT
ARTH 383	LIN	91	3.550-03		BOTTOM BULKHEAD HARD POINT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION	
184	9.482+00	1.465+03	8	PRESSURE SHELL BOTTOM BULKHEAD	
TO NODE THRU CONDUCTOR CONDUCTANCE					
DIFF 84	LIN	184	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 174	LIN	854	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 175	LIN	855	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 183	LIN	869	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 185	LIN	870	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 189	LIN	878	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1187	LIN	1884	3.800-04	13	TRUSS SUPPORT
ARTH 384	LIN	92	3.550-03		BOTTOM BULKHEAD HARD POINT
DIFF 1168	LIN	1843	1.124-03	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
185	1.012+01	1.893+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 85	LIN 185	1.435-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 176	LIN 856	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 177	LIN 857	2.700-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 184	LIN 870	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 178	LIN 871	1.900-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 186	LIN 879	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 1037	LIN 1285	3.800-04	13	TRUSS SUPPORT
ARTH 385	LIN 93	3.550-03		BOTTOM BULKHEAD HARD POINT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
186	3.585+01	8.031+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 386	LIN 82	1.870-04		BOTTOM BULKHEAD HARD POINT
DIFF 86	LIN 186	1.545-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 185	LIN 879	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 178	LIN 880	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 189	LIN 886	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 187	LIN 887	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
ARTH 569	LIN 7304	4.000-05	10	MOTOR COMPONENTS
ARTH 565	LIN 7305	3.480-04	10	MOTOR
DIFF 563	LIN 7337	2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 561	LIN 889	2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 906	LIN 5023	1.476-05	12	THCP RETURN PLENUM

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
187	3.585+01	8.796+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 387	LIN 83	1.870-04		BOTTOM BULKHEAD HARD POINT
DIFF 87	LIN 187	1.545-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 179	LIN 881	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 180	LIN 882	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 186	LIN 887	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 188	LIN 888	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 563	LIN 7336	2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 561	LIN 890	2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 906	LIN 5024	3.719-06	12	THCP RETURN PLENUM

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
187	3.585+01	8.796+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 907	LIN 5025	1.107-05	12	THCP RETURN PLENUM
188	3.649+01	7.568+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 388	LIN 84	1.870-04		BOTTOM BULKHEAD HARD POINT
DIFF 88	LIN 188	1.545-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 181	LIN 883	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 182	LIN 884	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 189	LIN 885	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 187	LIN 888	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
ARTH 353	LIN 2014	7.460-04		FEEDTHRU
DIFF 563	LIN 7334	2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 561	LIN 891	2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 907	LIN 5026	1.476-05	12	THCP RETURN PLENUM
189	3.585+01	8.670+03	8	PRESSURE SHELL BOTTOM BULKHEAD
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 389	LIN 85	1.870-04		BOTTOM BULKHEAD HARD POINT
DIFF 89	LIN 189	1.545-05	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 183	LIN 877	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 184	LIN 878	4.820-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 188	LIN 885	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 186	LIN 886	1.870-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 563	LIN 7335	2.310-04	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 561	LIN 892	2.290-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 903	LIN 5021	6.658-05	12	THCP RETURN ADAPTER
DIFF 906	LIN 5022	7.353-06	12	THCP RETURN PLENUM
501	6.790+00	3.386+02	10	CYLINDRICAL INNER DOCKING HATCH
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 451	LIN 901	2.410-04	11	CENTER POST 1 FITTING
ARTH 455	LIN 911	2.410-04	11	CENTER POST 4 FITTING
ARTH 459	LIN 921	2.410-04	11	CENTER POST 3 FITTING

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
501	6.790+00	3.386+02	10	CYLINDRICAL INNER DOCKING HATCH
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 463	LIN 931	2.410-04	11	CENTER POST 2 FITTING
DIFF 502	LIN 7002	5.100-03	10	CLOSURE PLATE
DIFF 503	LIN 7003	4.550-03	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 125	LIN 701	2.290-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 126	LIN 702	2.290-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 127	LIN 703	2.290-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 128	LIN 704	2.290-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 503	RAD 7020	1.420-13	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 502	RAD 7021	1.740-13	10	CLOSURE PLATE
ARTH 513	RAD 7024	1.520-13	10	HATCH COVER INSULATION
502	2.185+01	4.044+03	10	CLOSURE PLATE
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 501	LIN 7002	5.100-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 501	RAD 7021	1.740-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 503	RAD 7022	1.520-13	10	CYLINDRICAL OUTER DOCKING HATCH
ARTH 513	RAD 7023	1.830-13	10	HATCH COVER INSULATION
503	7.810+00	1.355+03	10	CYLINDRICAL OUTER DOCKING HATCH
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 501	LIN 7003	4.550-03	10	CYLINDRICAL INNER DOCKING HATCH
ARTH 504	LIN 7014	1.038-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 128	LIN 7034	2.310-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 127	LIN 7035	2.310-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 125	LIN 7036	2.310-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 126	LIN 7037	2.310-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 501	RAD 7020	1.420-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 502	RAD 7022	1.520-13	10	CLOSURE PLATE
ARTH 513	RAD 7025	1.740-13	10	HATCH COVER INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
522	2.185+01	4.044+03	10	CLOSURE PLATE
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 521	LIN 7102	5.100-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 521	RAD 7121	1.740-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 523	RAD 7122	1.520-13	10	CYLINDRICAL OUTER DOCKING HATCH
ARTH 533	RAD 7123	1.830-13	10	HATCH COVER INSULATION
521	6.790+00	4.536+02	10	CYLINDRICAL INNER DOCKING HATCH
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 136	LIN 7101	5.040-03	7	PRESSURE SHELL SIDEWALL
DIFF 522	LIN 7102	5.100-03	10	CLOSURE PLATE
DIFF 523	LIN 7103	4.550-03	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 523	RAD 7120	1.420-13	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 522	RAD 7121	1.740-13	10	CLOSURE PLATE
ARTH 533	RAD 7124	1.520-13	10	HATCH COVER INSULATION
523	7.810+03	7.906+02	10	CYLINDRICAL OUTER DOCKING HATCH
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
ARTH 524	LIN 7114	1.038-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 521	LIN 7103	4.550-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 136	LIN 7115	5.040-03	7	PRESSURE SHELL SIDEWALL
DIFF 521	RAD 7120	1.420-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 522	RAD 7122	1.520-13	10	CLOSURE PLATE
ARTH 533	RAD 7125	1.740-13	10	HATCH COVER INSULATION
541	6.790+00	4.536+02	10	CYLINDRICAL INNER DOCKING HATCH
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 144	LIN 7201	5.040-03	6	PRESSURE SHELL SIDEWALL
DIFF 542	LIN 7202	5.100-03	10	CLOSURE PLATE
DIFF 543	LIN 7203	4.550-03	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 543	RAD 7220	1.420-13	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 542	RAD 7221	1.740-13	10	CLOSURE PLATE
ARTH 553	RAD 7224	1.520-13	10	HATCH COVER INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
542	2.185+01	4.044+03	10	CLOSURE PLATE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 541	LIN 7202	5.100-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 541	RAD 7221	1.740-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 543	RAD 7222	1.520-13	10	CYLINDRICAL OUTER DOCKING HATCH
ARTH 553	RAD 7223	1.830-13	10	HATCH COVER INSULATION
543	7.810+00	7.906+02	10	CYLINDRICAL OUTER DOCKING HATCH
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 541	LIN 7203	4.550-03	10	CYLINDRICAL INNER DOCKING HATCH
ARTH 544	LIN 7214	1.038-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 144	LIN 7215	5.040-03	6	PRESSURE SHELL SIDEWALL
DIFF 541	RAD 7220	1.420-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 542	RAD 7222	1.520-13	10	CLOSURE PLATE
ARTH 553	RAD 7225	1.740-13	10	HATCH COVER INSULATION
561	6.790+00	3.386+02	10	CYLINDRICAL INNER DOCKING HATCH
TO NODE THRU CONDUCTOR CONDUCTANCE				
ARTH 454	LIN 905	2.410-04	11	CENTER POST 1 FITTING
ARTH 458	LIN 915	2.410-04	11	CENTER POST 4 FITTING
ARTH 462	LIN 925	2.410-04	11	CENTER POST 3 FITTING
ARTH 466	LIN 935	2.410-04	11	CENTER POST 2 FITTING
DIFF 562	LIN 7302	5.100-03	10	CLOSURE PLATE
DIFF 563	LIN 7303	4.550-03	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 186	LIN 889	2.290-03	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 187	LIN 890	2.290-03	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 188	LIN 891	2.290-03	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 189	LIN 892	2.290-03	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 563	RAD 7320	1.420-13	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF 562	RAD 7321	1.740-13	10	CLOSURE PLATE
ARTH 573	RAD 7324	1.520-13	10	HATCH COVER INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
562	2.185+01	4.044+03	10	CLOSURE PLATE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 561	LIN 7302	5.100-03	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 561	RAD 7321	1.740-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 563	RAD 7322	1.520-13	10	CYLINDRICAL OUTER DOCKING HATCH
ARTH 573	RAD 7323	1.830-13	10	HATCH COVER INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
563	7.810+00	1.355+03	10	CYLINDRICAL OUTER DOCKING HATCH
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 561	LIN 7303	4.550-03	10	CYLINDRICAL INNER DOCKING HATCH
ARTH 564	LIN 7314	1.038-05	10	HATCH CYLINDRICAL METEOROID SHIELD
DIFF 188	LIN 7334	2.310-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 189	LIN 7335	2.310-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 187	LIN 7336	2.310-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 186	LIN 7337	2.310-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 561	RAD 7320	1.420-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 562	RAD 7322	1.520-13	10	CLOSURE PLATE
ARTH 573	RAD 7325	1.740-13	10	HATCH COVER INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1001	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 102	LIN 1202	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 101	LIN 1203	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 2	LIN 1310	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1	LIN 1312	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 117	LIN 1201	1.124-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1002	LIN 1204	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1002	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 102	LIN 1205	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 101	LIN 1206	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 2	LIN 1309	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1	LIN 1313	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1001	LIN 1204	5.900-04	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1002	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1003	LIN 1207	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1003	1.973+00	1.143+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 102	LIN 1208	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 101	LIN 1209	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 2	LIN 1308	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1	LIN 1314	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1002	LIN 1207	5.900-04	13	TRUSS SUPPORT
DIFF 1004	LIN 1210	4.820-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1004	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1003	LIN 1210	4.820-04	13	TRUSS SUPPORT
DIFF 1005	LIN 1212	8.300-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1211	1.070-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1012	1.218+00	3.811+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1011	LIN 1227	4.200-04	13	TRUSS SUPPORT
DIFF 1013	LIN 1228	1.178-03	13	TRUSS SUPPORT
DIFF 1031	LIN 1269	4.200-04	13	TRUSS SUPPORT
DIFF 1032	LIN 1270	1.178-03	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1016	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 163	LIN 1237	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 162	LIN 1238	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 62	LIN 1302	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 63	LIN 1307	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1017	LIN 1239	5.900-04	13	TRUSS SUPPORT
DIFF 1015	LIN 1235	4.830-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1017	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 163	LIN 1240	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 162	LIN 1241	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 62	LIN 1303	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 63	LIN 1306	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1016	LIN 1239	5.900-04	13	TRUSS SUPPORT
DIFF 1018	LIN 1242	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1018	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 163	LIN 1290	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 162	LIN 1291	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 62	LIN 1304	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 63	LIN 1305	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1017	LIN 1242	5.900-04	13	TRUSS SUPPORT
DIFF 178	LIN 1243	1.124-03	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1021	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 117	LIN 1244	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 124	LIN 1245	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 101	LIN 1246	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116	LIN 1247	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1	LIN 1317	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 16	LIN 1318	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1022	LIN 1248	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1022	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 101	LIN 1249	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116	LIN 1250	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1	LIN 1316	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 16	LIN 1319	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1021	LIN 1248	5.900-04	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1022	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1023 LIN 1251		5.900-04	13	TRUSS SUPPORT
1023	1.973+00	1.143+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 101 LIN 1292		3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116 LIN 1293		3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1 LIN 1315		3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 16 LIN 1320		3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1022 LIN 1251		5.900-04	13	TRUSS SUPPORT
DIFF 1024 LIN 1252		4.820-04	13	TRUSS SUPPORT
1024	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1023 LIN 1252		4.820-04	13	TRUSS SUPPORT
DIFF 1025 LIN 1254		8.300-04	13	TRUSS SUPPORT
BOUN 1038 RAD 1253		1.070-14	13	TRUSS SUPPORT INSULATION
1035	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 162 LIN 1278		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 177 LIN 1279		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 77 LIN 1296		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 62 LIN 1301		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1036 LIN 1280		5.900-04	13	TRUSS SUPPORT
DIFF 1034 LIN 1276		4.830-04	13	TRUSS SUPPORT
1036	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 162 LIN 1281		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 177 LIN 1282		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 77 LIN 1297		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 62 LIN 1300		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1036	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1035	LIN 1280	5.900-04	13	TRUSS SUPPORT
DIFF 1037	LIN 1283	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1037	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 178	LIN 1284	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 185	LIN 1285	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 162	LIN 1294	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 177	LIN 1295	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 77	LIN 1298	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 62	LIN 1299	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1036	LIN 1283	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1051	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 106	LIN 1402	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 1403	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 6	LIN 1510	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 5	LIN 1512	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 119	LIN 1401	1.124-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1052	LIN 1404	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1052	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 106	LIN 1405	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 1406	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 6	LIN 1509	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 5	LIN 1513	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1051	LIN 1404	5.900-04	13	TRUSS SUPPORT
DIFF 1053	LIN 1407	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1053	1.973+00	1.143+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 106	LIN 1408	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 1409	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 6	LIN 1508	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 5	LIN 1514	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1052	LIN 1407	5.900-04	13	TRUSS SUPPORT
DIFF 1054	LIN 1410	4.820-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1054	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1053	LIN 1410	4.820-04	13	TRUSS SUPPORT
DIFF 1055	LIN 1412	8.300-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1411	1.070-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1062	1.218+00	3.811+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1061	LIN 1427	4.200-04	13	TRUSS SUPPORT
DIFF 1063	LIN 1428	1.178-03	13	TRUSS SUPPORT
DIFF 1081	LIN 1469	4.200-04	13	TRUSS SUPPORT
DIFF 1082	LIN 1470	1.178-03	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1066	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 167	LIN 1437	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 166	LIN 1438	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 66	LIN 1502	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 67	LIN 1507	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1067	LIN 1439	5.900-04	13	TRUSS SUPPORT
DIFF 1065	LIN 1435	4.830-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1067	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 167	LIN 1440	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 166	LIN 1441	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 66	LIN 1503	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 67	LIN 1506	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1066	LIN 1439	5.900-04	13	TRUSS SUPPORT
DIFF 1068	LIN 1442	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1068	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 167	LIN 1490	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 166	LIN 1491	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 66	LIN 1504	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 67	LIN 1505	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1067	LIN 1442	5.900-04	13	TRUSS SUPPORT
DIFF 180	LIN 1443	1.124-03	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1071	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 119	LIN 1444	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 118	LIN 1445	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 1446	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 104	LIN 1447	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 5	LIN 1517	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 4	LIN 1518	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1072	LIN 1448	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1072	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 105	LIN 1449	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 104	LIN 1450	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 5	LIN 1516	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 4	LIN 1519	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1071	LIN 1448	5.900-04	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1072	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1073	LIN 1451	5.900-04	13	TRUSS SUPPORT
1073	1.973+00	1.143+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 105	LIN 1492	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 104	LIN 1493	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 5	LIN 1515	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 4	LIN 1520	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1072	LIN 1451	5.900-04	13	TRUSS SUPPORT
DIFF 1074	LIN 1452	4.820-04	13	TRUSS SUPPORT
1074	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1073	LIN 1452	4.820-04	13	TRUSS SUPPORT
DIFF 1075	LIN 1454	8.300-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1453	1.070-14	13	TRUSS SUPPORT INSULATION
1085	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 166	LIN 1478	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 165	LIN 1479	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 65	LIN 1496	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 66	LIN 1501	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1086	LIN 1480	5.900-04	13	TRUSS SUPPORT
DIFF 1084	LIN 1476	4.830-04	13	TRUSS SUPPORT
1086	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 166	LIN 1481	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 165	LIN 1482	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 65	LIN 1497	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 66	LIN 1500	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1086	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1085	LIN 1480	5.900-04	13	TRUSS SUPPORT
DIFF 1087	LIN 1483	5.900-04	13	TRUSS SUPPORT
1087	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 180	LIN 1484	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 179	LIN 1485	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 166	LIN 1494	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 165	LIN 1495	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 65	LIN 1498	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 66	LIN 1499	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1086	LIN 1483	5.900-04	13	TRUSS SUPPORT
1101	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 110	LIN 1602	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 109	LIN 1603	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 10	LIN 1710	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 9	LIN 1712	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 121	LIN 1601	1.124-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1102	LIN 1604	5.900-04	13	TRUSS SUPPORT
1102	9.720-01	7.809+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 110	LIN 1605	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 109	LIN 1606	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 10	LIN 1709	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 9	LIN 1713	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1101	LIN 1604	5.900-04	13	TRUSS SUPPORT
DIFF 103	LIN 1607	5.900-31	5	PRESSURE SHELL TOP BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1103	1.973+00	1.736+03	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 110	LIN 1608	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 109	LIN 1609	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 10	LIN 1708	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 9	LIN 1714	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1104	LIN 1610	4.820-04	13	TRUSS SUPPORT
1104	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 1103	LIN 1610	4.820-04	13	TRUSS SUPPORT
DIFF 1105	LIN 1612	8.300-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1611	1.070-14	13	TRUSS SUPPORT INSULATION
1112	1.218+00	3.811+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 1111	LIN 1627	4.200-04	13	TRUSS SUPPORT
DIFF 1113	LIN 1628	1.178-03	13	TRUSS SUPPORT
DIFF 1131	LIN 1669	4.200-04	13	TRUSS SUPPORT
DIFF 1132	LIN 1670	1.178-03	13	TRUSS SUPPORT
1116	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 171	LIN 1637	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 170	LIN 1638	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 70	LIN 1702	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 71	LIN 1707	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1117	LIN 1639	5.900-04	13	TRUSS SUPPORT
DIFF 1115	LIN 1635	4.830-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1117	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 171	LIN 1640	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 170	LIN 1641	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 70	LIN 1703	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 71	LIN 1706	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1116	LIN 1639	5.900-04	13	TRUSS SUPPORT
DIFF 1118	LIN 1642	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1118	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 171	LIN 1690	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 170	LIN 1691	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 70	LIN 1704	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 71	LIN 1705	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1117	LIN 1642	5.900-04	13	TRUSS SUPPORT
DIFF 182	LIN 1643	1.124-03	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1121	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 121	LIN 1644	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 120	LIN 1645	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 109	LIN 1646	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 108	LIN 1647	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 9	LIN 1717	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 8	LIN 1718	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1122	LIN 1648	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1122	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 109	LIN 1649	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 108	LIN 1650	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 9	LIN 1716	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 8	LIN 1719	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1121	LIN 1648	5.900-04	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1122	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1123	LIN 1651	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1123	1.973+00	1.143+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 109	LIN 1692	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 108	LIN 1693	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 9	LIN 1715	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 8	LIN 1720	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1122	LIN 1651	5.900-04	13	TRUSS SUPPORT
DIFF 1124	LIN 1652	4.820-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1124	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1123	LIN 1652	4.820-04	13	TRUSS SUPPORT
DIFF 1125	LIN 1654	8.300-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1653	1.070-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1135	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 170	LIN 1678	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 169	LIN 1679	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 69	LIN 1696	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 70	LIN 1701	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1136	LIN 1680	5.900-04	13	TRUSS SUPPORT
DIFF 1134	LIN 1676	4.830-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1136	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 170	LIN 1681	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 169	LIN 1682	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 69	LIN 1697	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 70	LIN 1700	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1136	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1135	LIN 1680	5.900-04	13	TRUSS SUPPORT
DIFF 1137	LIN 1683	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1137	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 182	LIN 1684	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 181	LIN 1685	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 170	LIN 1694	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 169	LIN 1695	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 69	LIN 1698	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 70	LIN 1699	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1136	LIN 1683	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1151	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 114	LIN 1802	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113	LIN 1803	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 14	LIN 1910	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 13	LIN 1912	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 123	LIN 1801	1.124-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 1152	LIN 1804	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1152	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 114	LIN 1805	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113	LIN 1806	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 14	LIN 1909	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 13	LIN 1913	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1151	LIN 1804	5.900-04	13	TRUSS SUPPORT
DIFF 1153	LIN 1807	5.900-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1153	1.973+00	1.143+03	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 114	LIN 1808	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113	LIN 1809	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 14	LIN 1908	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 13	LIN 1914	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1152	LIN 1807	5.900-04	13	TRUSS SUPPORT
DIFF 1154	LIN 1810	4.820-04	13	TRUSS SUPPORT
1154	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 1153	LIN 1810	4.820-04	13	TRUSS SUPPORT
DIFF 1155	LIN 1812	8.300-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1811	1.070-14	13	TRUSS SUPPORT INSULATION
1162	1.218+00	3.811+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 1161	LIN 1827	4.200-04	13	TRUSS SUPPORT
DIFF 1163	LIN 1828	1.178-03	13	TRUSS SUPPORT
DIFF 1181	LIN 1869	4.200-04	13	TRUSS SUPPORT
DIFF 1182	LIN 1870	1.178-03	13	TRUSS SUPPORT
1166	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 175	LIN 1837	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 174	LIN 1838	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 74	LIN 1902	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 75	LIN 1907	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1167	LIN 1839	5.900-04	13	TRUSS SUPPORT
DIFF 1165	LIN 1835	4.830-04	13	TRUSS SUPPORT

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1167	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 175	LIN 1840	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 174	LIN 1841	3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 74	LIN 1903	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 75	LIN 1906	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1166	LIN 1839	5.900-04	13	TRUSS SUPPORT
DIFF 1168	LIN 1842	5.900-04	13	TRUSS SUPPORT
1168	6.390-01	3.365+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 175	LIN 1890	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 174	LIN 1891	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 74	LIN 1904	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 75	LIN 1905	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1167	LIN 1842	5.900-04	13	TRUSS SUPPORT
DIFF 184	LIN 1843	1.124-03	8	PRESSURE SHELL BOTTOM BULKHEAD
1171	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 123	LIN 1844	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 122	LIN 1845	3.800-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113	LIN 1846	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 112	LIN 1847	9.200-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 13	LIN 1917	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 12	LIN 1918	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1172	LIN 1848	5.900-04	13	TRUSS SUPPORT
1172	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 113	LIN 1849	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 112	LIN 1850	3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 13	LIN 1916	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 12	LIN 1919	3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1171	LIN 1848	5.900-04	13	TRUSS SUPPORT

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1172	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1173 LIN 1851		5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1173	1.973+00	1.143+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 113 LIN 1892		3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 112 LIN 1893		3.270-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 13 LIN 1915		3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 12 LIN 1920		3.793-07	1	METEOROID SHIELD TOP BULKHEAD
DIFF 1172 LIN 1851		5.900-04	13	TRUSS SUPPORT
DIFF 1174 LIN 1852		4.820-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1174	6.060-01	4.597+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1173 LIN 1852		4.820-04	13	TRUSS SUPPORT
DIFF 1175 LIN 1854		8.300-04	13	TRUSS SUPPORT
BOUN 1188 RAD 1853		1.070-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1185	1.973+00	1.142+03	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 174 LIN 1878		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 173 LIN 1879		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 73 LIN 1896		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 74 LIN 1901		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1186 LIN 1880		5.900-04	13	TRUSS SUPPORT
DIFF 1184 LIN 1876		4.830-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1186	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 174 LIN 1881		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 173 LIN 1882		3.270-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 73 LIN 1897		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 74 LIN 1900		3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1186	9.720-01	5.298+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1185	LIN 1880	5.900-04	13	TRUSS SUPPORT
DIFF 1187	LIN 1883	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1187	6.390-01	4.164+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 184	LIN 1884	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 183	LIN 1885	3.800-04	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 174	LIN 1894	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 173	LIN 1895	9.200-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 73	LIN 1898	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 74	LIN 1899	3.793-07	4	METEOROID SHIELD BOTTOM BULKHEAD
DIFF 1186	LIN 1883	5.900-04	13	TRUSS SUPPORT
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1005	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1004	LIN 1212	8.300-04	13	TRUSS SUPPORT
DIFF 1006	LIN 1215	6.580-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1214	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1006	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1005	LIN 1215	6.580-04	13	TRUSS SUPPORT
DIFF 1007	LIN 1217	6.580-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1216	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1007	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1006	LIN 1217	6.580-04	13	TRUSS SUPPORT
DIFF 1008	LIN 1219	6.580-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1218	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1008	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1007	LIN 1219	6.580-04	13	TRUSS SUPPORT
DIFF 1009	LIN 1221	6.580-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1220	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1009	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1008	LIN 1221	6.580-04	13	TRUSS SUPPORT
DIFF 1010	LIN 1223	6.580-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1222	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1010	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1009	LIN 1223	6.580-04	13	TRUSS SUPPORT
DIFF 1011	LIN 1225	8.300-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1224	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1011	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1010	LIN 1225	8.300-04	13	TRUSS SUPPORT
DIFF 1012	LIN 1227	4.200-04	13	TRUSS SUPPORT
BOUN 1019	RAD 1226	1.070-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1013	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1012	LIN 1228	1.178-03	13	TRUSS SUPPORT
DIFF 1014	LIN 1231	4.580-04	13	TRUSS SUPPORT
BOUN 1020	RAD 1230	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1014	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1013	LIN 1231	4.580-04	13	TRUSS SUPPORT
DIFF 1015	LIN 1233	5.160-04	13	TRUSS SUPPORT
BOUN 1020	RAD 1232	2.240-14	13	TRUSS SUPPORT INSULATION
1015	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1014	LIN 1233	5.160-04	13	TRUSS SUPPORT
DIFF 1016	LIN 1235	4.830-04	13	TRUSS SUPPORT
BOUN 1020	RAD 1234	1.070-14	13	TRUSS SUPPORT INSULATION
1025	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1024	LIN 1254	8.300-04	13	TRUSS SUPPORT
DIFF 1026	LIN 1257	6.580-04	13	TRUSS SUPPORT
BOUN 1038	RAD 1256	2.240-14	13	TRUSS SUPPORT INSULATION
1026	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1025	LIN 1257	6.580-04	13	TRUSS SUPPORT
DIFF 1027	LIN 1259	6.580-04	13	TRUSS SUPPORT
BOUN 1038	RAD 1258	2.240-14	13	TRUSS SUPPORT INSULATION
1027	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1026	LIN 1259	6.580-04	13	TRUSS SUPPORT
DIFF 1028	LIN 1261	6.580-04	13	TRUSS SUPPORT
BOUN 1038	RAD 1260	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1028	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1027	LIN 1261	6.580-04	13	TRUSS SUPPORT
DIFF 1029	LIN 1263	6.580-04	13	TRUSS SUPPORT
BOUN 1038	RAD 1262	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1029	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1028	LIN 1263	6.580-04	13	TRUSS SUPPORT
DIFF 1030	LIN 1265	6.580-04	13	TRUSS SUPPORT
BOUN 1038	RAD 1264	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1030	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1029	LIN 1265	6.580-04	13	TRUSS SUPPORT
DIFF 1031	LIN 1267	8.300-04	13	TRUSS SUPPORT
BOUN 1038	RAD 1266	2.240-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1031	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1030	LIN 1267	8.300-04	13	TRUSS SUPPORT
DIFF 1012	LIN 1269	4.200-04	13	TRUSS SUPPORT
BOUN 1038	RAD 1268	1.070-14	13	TRUSS SUPPORT INSULATION
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1032	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1012	LIN 1270	1.178-03	13	TRUSS SUPPORT
DIFF 1033	LIN 1272	4.580-04	13	TRUSS SUPPORT
BOUN 1039	RAD 1271	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1033	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1032	LIN 1272	4.580-04	13	TRUSS SUPPORT
DIFF 1034	LIN 1274	5.160-04	13	TRUSS SUPPORT
BOUN 1039	RAD 1273	2.240-14	13	TRUSS SUPPORT INSULATION
1034	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1033	LIN 1274	5.160-04	13	TRUSS SUPPORT
DIFF 1035	LIN 1276	4.830-04	13	TRUSS SUPPORT
BOUN 1039	RAD 1275	1.070-14	13	TRUSS SUPPORT INSULATION
1055	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1054	LIN 1412	8.300-04	13	TRUSS SUPPORT
DIFF 1056	LIN 1415	6.580-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1414	2.240-14	13	TRUSS SUPPORT INSULATION
1056	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1055	LIN 1415	6.580-04	13	TRUSS SUPPORT
DIFF 1057	LIN 1417	6.580-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1416	2.240-14	13	TRUSS SUPPORT INSULATION
1057	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1056	LIN 1417	6.580-04	13	TRUSS SUPPORT
DIFF 1058	LIN 1419	6.580-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1418	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1058	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1057	LIN 1419	6.580-04	13	TRUSS SUPPORT
DIFF 1059	LIN 1421	6.580-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1420	2.240-14	13	TRUSS SUPPORT INSULATION
1059	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1058	LIN 1421	6.580-04	13	TRUSS SUPPORT
DIFF 1060	LIN 1423	6.580-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1422	2.240-14	13	TRUSS SUPPORT INSULATION
1060	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1059	LIN 1423	6.580-04	13	TRUSS SUPPORT
DIFF 1061	LIN 1425	8.300-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1424	2.240-14	13	TRUSS SUPPORT INSULATION
1061	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1060	LIN 1425	8.300-04	13	TRUSS SUPPORT
DIFF 1062	LIN 1427	4.200-04	13	TRUSS SUPPORT
BOUN 1069	RAD 1426	1.070-14	13	TRUSS SUPPORT INSULATION
1063	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1062	LIN 1428	1.178-03	13	TRUSS SUPPORT
DIFF 1064	LIN 1431	4.580-04	13	TRUSS SUPPORT
BOUN 1070	RAD 1430	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1064	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1063	LIN 1431	4.580-04	13	TRUSS SUPPORT
DIFF 1065	LIN 1433	5.160-04	13	TRUSS SUPPORT
BOUN 1070	RAD 1432	2.240-14	13	TRUSS SUPPORT INSULATION
1065	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1064	LIN 1433	5.160-04	13	TRUSS SUPPORT
DIFF 1066	LIN 1435	4.830-04	13	TRUSS SUPPORT
BOUN 1070	RAD 1434	1.070-14	13	TRUSS SUPPORT INSULATION
1075	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1074	LIN 1454	8.300-04	13	TRUSS SUPPORT
DIFF 1076	LIN 1457	6.580-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1456	2.240-14	13	TRUSS SUPPORT INSULATION
1076	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1075	LIN 1457	6.580-04	13	TRUSS SUPPORT
DIFF 1077	LIN 1459	6.580-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1458	2.240-14	13	TRUSS SUPPORT INSULATION
1077	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1076	LIN 1459	6.580-04	13	TRUSS SUPPORT
DIFF 1078	LIN 1461	6.580-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1460	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1078	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1077	LIN 1461	6.580-04	13	TRUSS SUPPORT
DIFF 1079	LIN 1463	6.580-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1462	2.240-14	13	TRUSS SUPPORT INSULATION
1079	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1078	LIN 1463	6.580-04	13	TRUSS SUPPORT
DIFF 1080	LIN 1465	6.580-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1464	2.240-14	13	TRUSS SUPPORT INSULATION
1080	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1079	LIN 1465	6.580-04	13	TRUSS SUPPORT
DIFF 1081	LIN 1467	8.300-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1466	2.240-14	13	TRUSS SUPPORT INSULATION
1081	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1080	LIN 1467	8.300-04	13	TRUSS SUPPORT
DIFF 1062	LIN 1469	4.200-04	13	TRUSS SUPPORT
BOUN 1088	RAD 1468	1.070-14	13	TRUSS SUPPORT INSULATION
1082	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1062	LIN 1470	1.178-03	13	TRUSS SUPPORT
DIFF 1083	LIN 1472	4.580-04	13	TRUSS SUPPORT
BOUN 1089	RAD 1471	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1083	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1082	LIN 1472	4.580-04	13	TRUSS SUPPORT
DIFF 1084	LIN 1474	5.160-04	13	TRUSS SUPPORT
BOUN 1089	RAD 1473	2.240-14	13	TRUSS SUPPORT INSULATION
1084	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1083	LIN 1474	5.160-04	13	TRUSS SUPPORT
DIFF 1085	LIN 1476	4.830-04	13	TRUSS SUPPORT
BOUN 1089	RAD 1475	1.070-14	13	TRUSS SUPPORT INSULATION
1105	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1104	LIN 1612	8.300-04	13	TRUSS SUPPORT
DIFF 1106	LIN 1615	6.580-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1614	2.240-14	13	TRUSS SUPPORT INSULATION
1106	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1105	LIN 1615	6.580-04	13	TRUSS SUPPORT
DIFF 1107	LIN 1617	6.580-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1616	2.240-14	13	TRUSS SUPPORT INSULATION
1107	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1106	LIN 1617	6.580-04	13	TRUSS SUPPORT
DIFF 1108	LIN 1619	6.580-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1618	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1108	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1107	LIN 1619	6.580-04	13	TRUSS SUPPORT
DIFF 1109	LIN 1621	6.580-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1620	2.240-14	13	TRUSS SUPPORT INSULATION
1109	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1108	LIN 1621	6.580-04	13	TRUSS SUPPORT
DIFF 1110	LIN 1623	6.580-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1622	2.240-14	13	TRUSS SUPPORT INSULATION
1110	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1109	LIN 1623	6.580-04	13	TRUSS SUPPORT
DIFF 1111	LIN 1625	8.300-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1624	2.240-14	13	TRUSS SUPPORT INSULATION
1111	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1110	LIN 1625	8.300-04	13	TRUSS SUPPORT
DIFF 1112	LIN 1627	4.200-04	13	TRUSS SUPPORT
BOUN 1119	RAD 1626	1.070-14	13	TRUSS SUPPORT INSULATION.
1113	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1112	LIN 1628	1.178-03	13	TRUSS SUPPORT
DIFF 1114	LIN 1631	4.580-04	13	TRUSS SUPPORT
BOUN 1120	RAD 1630	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1114	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1113	LIN 1631	4.580-04	13	TRUSS SUPPORT
DIFF 1115	LIN 1633	5.160-04	13	TRUSS SUPPORT
BOUN 1120	RAD 1632	2.240-14	13	TRUSS SUPPORT INSULATION
1115	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1114	LIN 1633	5.160-04	13	TRUSS SUPPORT
DIFF 1116	LIN 1635	4.830-04	13	TRUSS SUPPORT
BOUN 1120	RAD 1634	1.070-14	13	TRUSS SUPPORT INSULATION
1125	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1124	LIN 1654	8.300-04	13	TRUSS SUPPORT
DIFF 1126	LIN 1657	6.580-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1656	2.240-14	13	TRUSS SUPPORT INSULATION
1126	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1125	LIN 1657	6.580-04	13	TRUSS SUPPORT
DIFF 1127	LIN 1659	6.580-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1658	2.240-14	13	TRUSS SUPPORT INSULATION
1127	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1126	LIN 1659	6.580-04	13	TRUSS SUPPORT
DIFF 1128	LIN 1661	6.580-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1660	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1128	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1127	LIN 1661	6.580-04	13	TRUSS SUPPORT
DIFF 1129	LIN 1663	6.580-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1662	2.240-14	13	TRUSS SUPPORT INSULATION
1129	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1128	LIN 1663	6.580-04	13	TRUSS SUPPORT
DIFF 1130	LIN 1665	6.580-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1664	2.240-14	13	TRUSS SUPPORT INSULATION
1130	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1129	LIN 1665	6.580-04	13	TRUSS SUPPORT
DIFF 1131	LIN 1667	8.300-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1666	2.240-14	13	TRUSS SUPPORT INSULATION
1131	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1130	LIN 1667	8.300-04	13	TRUSS SUPPORT
DIFF 1112	LIN 1669	4.200-04	13	TRUSS SUPPORT
BOUN 1138	RAD 1668	1.070-14	13	TRUSS SUPPORT INSULATION
1132	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1112	LIN 1670	1.178-03	13	TRUSS SUPPORT
DIFF 1133	LIN 1672	4.580-04	13	TRUSS SUPPORT
BOUN 1139	RAD 1671	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1133	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1132	LIN 1672	4.580-04	13	TRUSS SUPPORT
DIFF 1134	LIN 1674	5.160-04	13	TRUSS SUPPORT
BOUN 1139	RAD 1673	2.240-14	13	TRUSS SUPPORT INSULATION
1134	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1133	LIN 1674	5.160-04	13	TRUSS SUPPORT
DIFF 1135	LIN 1676	4.830-04	13	TRUSS SUPPORT
BOUN 1139	RAD 1675	1.070-14	13	TRUSS SUPPORT INSULATION
1155	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1154	LIN 1812	8.300-04	13	TRUSS SUPPORT
DIFF 1156	LIN 1815	6.580-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1814	2.240-14	13	TRUSS SUPPORT INSULATION
1156	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1155	LIN 1815	6.580-04	13	TRUSS SUPPORT
DIFF 1157	LIN 1817	6.580-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1816	2.240-14	13	TRUSS SUPPORT INSULATION
1157	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1156	LIN 1817	6.580-04	13	TRUSS SUPPORT
DIFF 1158	LIN 1819	6.580-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1818	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1158	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1157	LIN 1819	6.580-04	13	TRUSS SUPPORT
DIFF 1159	LIN 1821	6.580-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1820	2.240-14	13	TRUSS SUPPORT INSULATION
1159	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1158	LIN 1821	6.580-04	13	TRUSS SUPPORT
DIFF 1160	LIN 1823	6.580-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1822	2.240-14	13	TRUSS SUPPORT INSULATION
1160	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1159	LIN 1823	6.580-04	13	TRUSS SUPPORT
DIFF 1161	LIN 1825	8.300-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1824	2.240-14	13	TRUSS SUPPORT INSULATION
1161	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1160	LIN 1825	8.300-04	13	TRUSS SUPPORT
DIFF 1162	LIN 1827	4.200-04	13	TRUSS SUPPORT
BOUN 1169	RAD 1826	1.070-14	13	TRUSS SUPPORT INSULATION
1163	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1162	LIN 1828	1.178-03	13	TRUSS SUPPORT
DIFF 1164	LIN 1831	4.580-04	13	TRUSS SUPPORT
BOUN 1170	RAD 1830	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1164	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1163	LIN 1831	4.580-04	13	TRUSS SUPPORT
DIFF 1165	LIN 1833	5.160-04	13	TRUSS SUPPORT
BOUN 1170	RAD 1832	2.240-14	13	TRUSS SUPPORT INSULATION
1165	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1164	LIN 1833	5.160-04	13	TRUSS SUPPORT
DIFF 1166	LIN 1835	4.830-04	13	TRUSS SUPPORT
BOUN 1170	RAD 1834	1.070-14	13	TRUSS SUPPORT INSULATION
1175	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1174	LIN 1854	8.300-04	13	TRUSS SUPPORT
DIFF 1176	LIN 1857	6.580-04	13	TRUSS SUPPORT
BOUN 1188	RAD 1856	2.240-14	13	TRUSS SUPPORT INSULATION
1176	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1175	LIN 1857	6.580-04	13	TRUSS SUPPORT
DIFF 1177	LIN 1859	6.580-04	13	TRUSS SUPPORT
BOUN 1188	RAD 1858	2.240-14	13	TRUSS SUPPORT INSULATION
1177	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1176	LIN 1859	6.580-04	13	TRUSS SUPPORT
DIFF 1178	LIN 1861	6.580-04	13	TRUSS SUPPORT
BOUN 1188	RAD 1860	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1178	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1177	LIN 1861	6.580-04	13	TRUSS SUPPORT
DIFF 1179	LIN 1863	6.580-04	13	TRUSS SUPPORT
BOUN 1188	RAD 1862	2.240-14	13	TRUSS SUPPORT INSULATION
1179	5.660-01	4.258+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1178	LIN 1863	6.580-04	13	TRUSS SUPPORT
DIFF 1180	LIN 1865	6.580-04	13	TRUSS SUPPORT
BOUN 1188	RAD 1864	2.240-14	13	TRUSS SUPPORT INSULATION
1180	5.660-01	3.770+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1179	LIN 1865	6.580-04	13	TRUSS SUPPORT
DIFF 1181	LIN 1867	8.300-04	13	TRUSS SUPPORT
BOUN 1188	RAD 1866	2.240-14	13	TRUSS SUPPORT INSULATION
1181	2.320-01	1.847+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1180	LIN 1867	8.300-04	13	TRUSS SUPPORT
DIFF 1162	LIN 1869	4.200-04	13	TRUSS SUPPORT
BOUN 1188	RAD 1868	1.070-14	13	TRUSS SUPPORT INSULATION
1182	2.620-01	1.589+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1162	LIN 1870	1.178-03	13	TRUSS SUPPORT
DIFF 1183	LIN 1872	4.580-04	13	TRUSS SUPPORT
BOUN 1189	RAD 1871	2.240-14	13	TRUSS SUPPORT INSULATION

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
1183	1.520-01	1.539+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1182	LIN 1872	4.580-04	13	TRUSS SUPPORT
DIFF 1184	LIN 1874	5.160-04	13	TRUSS SUPPORT
BOUN 1189	RAD 1873	2.240-14	13	TRUSS SUPPORT INSULATION
1184	2.380-01	2.367+02	13	TRUSS SUPPORT
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 1183	LIN 1874	5.160-04	13	TRUSS SUPPORT
DIFF 1185	LIN 1876	4.830-04	13	TRUSS SUPPORT
BOUN 1189	RAD 1875	1.070-14	13	TRUSS SUPPORT INSULATION
685	6.870-01	9.473+03	9	WINDOW 1 THERMAL PANE FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 686	LIN 8051	3.280-05	9	WINDOW 1 THERMAL PANE
ARTH 690	LIN 8061	8.000-06	9	WINDOW 1 MOTOR SHAFT
DIFF 7	RAD 8341	5.327-14	1	METEOROID SHIELD TOP BULKHEAD
686	1.167+00	5.563+02	9	WINDOW 1 THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 685	LIN 8051	3.280-05	9	WINDOW 1 THERMAL PANE FRAME
BOUN 900	RAD 8361	8.459-12		COLD WALL BOUNDARY NODE
DIFF 688	RAD 8331	6.079-13	9	WINDOW 1 OUTER PRESSURE PANE
688	3.275+00	3.843+03	9	WINDOW 1 OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 682	LIN 8031	4.320-05	9	WINDOW 1 FRAME
DIFF 683	RAD 8301	7.505-13	9	WINDOW 1 INNER PRESSURE PANE
DIFF 686	RAD 8331	6.079-13	9	WINDOW 1 THERMAL PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
683	3.275+00	3.495+03	9	WINDOW 1 INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 682	LIN 8041	4.320-05	9	WINDOW 1 FRAME
DIFF 688	RAD 8301	7.505-13	9	WINDOW 1 OUTER PRESSURE PANE
ARTH 689	RAD 8311	7.505-13	9	WINDOW 1 SHADE
682	3.831+00	9.200+03	9	WINDOW 1 FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 681	LIN 8021	3.300-04	9	WINDOW 1 FRAME ADAPTER
DIFF 688	LIN 8031	4.320-05	9	WINDOW 1 OUTER PRESSURE PANE
DIFF 683	LIN 8041	4.320-05	9	WINDOW 1 INNER PRESSURE PANE
681	2.488+00	8.104+02	9	WINDOW 1 FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 107	LIN 8011	2.740-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 682	LIN 8021	3.300-04	9	WINDOW 1 FRAME
675	6.870-01	9.473+03	9	WINDOW 2 THERMAL PANE FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 676	LIN 8052	3.280-05	9	WINDOW 2 THERMAL PANE
ARTH 680	LIN 8062	8.000-06	9	WINDOW 2 MOTOR SHAFT
DIFF 15	RAD 8342	5.327-14	1	METEOROID SHIELD TOP BULKHEAD
676	1.167+00	5.563+02	9	WINDOW 2 THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 675	LIN 8052	3.280-05	9	WINDOW 2 THERMAL PANE FRAME
BOUN 900	RAD 8362	8.459-12		COLD WALL BOUNDARY NODE
DIFF 678	RAD 8332	6.079-13	9	WINDOW 2 OUTER PRESSURE PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
678	3.275+00	3.843+03	9	WINDOW 2 OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 672	LIN 8032	4.320-05	9	WINDOW 2 FRAME
DIFF 673	RAD 8302	7.505-13	9	WINDOW 2 INNER PRESSURE PANE
DIFF 676	RAD 8332	6.079-13	9	WINDOW 2 THERMAL PANE
673	3.275+00	3.495+03	9	WINDOW 2 INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 672	LIN 8042	4.320-05	9	WINDOW 2 FRAME
DIFF 678	RAD 8302	7.505-13	9	WINDOW 2 OUTER PRESSURE PANE
ARTH 679	RAD 8312	7.505-13	9	WINDOW 2 SHADE
672	3.831+00	9.200+03	9	WINDOW 2 FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 671	LIN 8022	3.300-04	9	WINDOW 2 FRAME ADAPTER
DIFF 678	LIN 8032	4.320-05	9	WINDOW 2 OUTER PRESSURE PANE
DIFF 673	LIN 8042	4.320-05	9	WINDOW 2 INNER PRESSURE PANE
671	2.488+00	8.104+02	9	WINDOW 2 FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 115	LIN 8012	2.740-03	5	PRESSURE SHELL TOP BULKHEAD
DIFF 672	LIN 8022	3.300-04	9	WINDOW 2 FRAME
644	6.870-01	9.473+03	9	WINDOW 3 THERMAL PANE FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 645	LIN 8053	3.280-05	9	WINDOW 3 THERMAL PANE
ARTH 650	LIN 8063	8.000-06	9	WINDOW 3 MOTOR SHAFT
DIFF 34	RAD 8343	5.327-14	3	METEOROID SHIELD SIDEWALL

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
645	1.167+00	5.563+02	9	WINDOW 3 THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 644	LIN 8053	3.280-05	9	WINDOW 3 THERMAL PANE FRAME
BOUN 900	RAD 8363	8.459-12		COLD WALL BOUNDARY NODE
DIFF 648	RAD 8333	6.079-13	9	WINDOW 3 OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
648	3.275+00	3.843+03	9	WINDOW 3 OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 642	LIN 8033	4.320-05	9	WINDOW 3 FRAME
DIFF 643	RAD 8303	7.505-13	9	WINDOW 3 INNER PRESSURE PANE
DIFF 645	RAD 8333	6.079-13	9	WINDOW 3 THERMAL PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
643	3.275+00	3.495+03	9	WINDOW 3 INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 642	LIN 8043	4.320-05	9	WINDOW 3 FRAME
DIFF 648	RAD 8303	7.505-13	9	WINDOW 3 OUTER PRESSURE PANE
ARTH 649	RAD 8313	7.505-13	9	WINDOW 3 SHADE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
642	3.831+00	9.200+03	9	WINDOW 3 FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 641	LIN 8023	3.300-04	9	WINDOW 3 FRAME ADAPTER
DIFF 648	LIN 8033	4.320-05	9	WINDOW 3 OUTER PRESSURE PANE
DIFF 643	LIN 8043	4.320-05	9	WINDOW 3 INNER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
641	2.488+00	1.292+03	9	WINDOW 3 FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 134	LIN 8013	1.595-03	7	PRESSURE SHELL SIDEWALL
DIFF 642	LIN 8023	3.300-04	9	WINDOW 3 FRAME

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
654	6.870-01	9.473+03	9	WINDOW 4 THERMAL PANE FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 655	LIN 8054	3.280-05	9	WINDOW 4 THERMAL PANE
ARTH 660	LIN 8064	8.000-06	9	WINDOW 4 MOTOR SHAFT
DIFF 30	RAD 8344	5.327-14	2	METEOROID SHIELD SIDEWALL
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
655	1.167+00	5.563+02	9	WINDOW 4 THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 654	LIN 8054	3.280-05	9	WINDOW 4 THERMAL PANE FRAME
BOUN 900	RAD 8364	8.459-12		COLD WALL BOUNDARY NODE
DIFF 658	RAD 8334	6.079-13	9	WINDOW 4 OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
658	3.275+00	3.843+03	9	WINDOW 4 OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 652	LIN 8034	4.320-05	9	WINDOW 4 FRAME
DIFF 653	RAD 8304	7.505-13	9	WINDOW 4 INNER PRESSURE PANE
DIFF 655	RAD 8334	6.079-13	9	WINDOW 4 THERMAL PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
653	3.275+00	3.495+03	9	WINDOW 4 INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 652	LIN 8044	4.320-05	9	WINDOW 4 FRAME
DIFF 658	RAD 8304	7.505-13	9	WINDOW 4 OUTER PRESSURE PANE
ARTH 659	RAD 8314	7.505-13	9	WINDOW 4 SHADE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
652	3.831+00	9.200+03	9	WINDOW 4 FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 651	LIN 8024	3.300-04	9	WINDOW 4 FRAME ADAPTER
DIFF 658	LIN 8034	4.320-05	9	WINDOW 4 OUTER PRESSURE PANE
DIFF 653	LIN 8044	4.320-05	9	WINDOW 4 INNER PRESSURE PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
651	2.488+00	1.292+03	9	WINDOW 4 FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 130	LIN 8014	1.595-03	6	PRESSURE SHELL SIDEWALL
DIFF 652	LIN 8024	3.300-04	9	WINDOW 4 FRAME
664	6.870-01	9.473+03	9	WINDOW 5 THERMAL PANE FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 665	LIN 8055	3.280-05	9	WINDOW 5 THERMAL PANE
ARTH 670	LIN 8065	8.000-06	9	WINDOW 5 MOTOR SHAFT
DIFF 42	RAD 8345	5.327-14	2	METEOROID SHIELD SIDEWALL
665	1.167+00	5.563+02	9	WINDOW 5 THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 664	LIN 8055	3.280-05	9	WINDOW 5 THERMAL PANE FRAME
BOUN 900	RAD 8365	8.459-12		COLD WALL BOUNDARY NODE
DIFF 668	RAD 8335	6.079-13	9	WINDOW 5 OUTER PRESSURE PANE
668	3.275+00	3.843+03	9	WINDOW 5 OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 662	LIN 8035	4.320-05	9	WINDOW 5 FRAME
DIFF 663	RAD 8305	7.505-13	9	WINDOW 5 INNER PRESSURE PANE
DIFF 665	RAD 8335	6.079-13	9	WINDOW 5 THERMAL PANE
663	3.275+00	3.495+03	9	WINDOW 5 INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 662	LIN 8045	4.320-05	9	WINDOW 5 FRAME
DIFF 668	RAD 8305	7.505-13	9	WINDOW 5 OUTER PRESSURE PANE
ARTH 669	RAD 8315	7.505-13	9	WINDOW 5 SHADE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
662	3.831+00	9.200+03	9	WINDOW 5 FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 661	LIN 8025	3.300-04	9	WINDOW 5 FRAME ADAPTER
DIFF 668	LIN 8035	4.320-05	9	WINDOW 5 OUTER PRESSURE PANE
DIFF 663	LIN 8045	4.320-05	9	WINDOW 5 INNER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
661	2.488+00	1.292+03	9	WINDOW 5 FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 142	LIN 8015	1.595-03	6	PRESSURE SHELL SIDEWALL
DIFF 662	LIN 8025	3.300-04	9	WINDOW 5 FRAME
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
604	6.870-01	9.473+03	9	WINDOW 6 THERMAL PANE FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 605	LIN 8056	3.280-05	9	WINDOW 6 THERMAL PANE
ARTH 610	LIN 8066	8.000-06	9	WINDOW MOTOR SHAFT
DIFF 38	RAD 8346	5.327-14	3	METEOROID SHIELD SIDEWALL
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
605	1.167+00	5.563+02	9	WINDOW 6 THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 604	LIN 8056	3.280-05	9	WINDOW 6 THERMAL PANE FRAME
BOUN 900	RAD 8366	8.459-12		COLD WALL BOUNDARY NODE
DIFF 608	RAD 8336	6.079-13	9	WINDOW 6 OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
608	3.275+00	3.843+03	9	WINDOW 6 OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 602	LIN 8036	4.320-05	9	WINDOW 6 FRAME
DIFF 603	RAD 8306	7.505-13	9	WINDOW 6 INNER PRESSURE PANE
DIFF 605	RAD 8336	6.079-13	9	WINDOW 6 THERMAL PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
603	3.275+00	3.495+03	9	WINDOW 6 INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 602	LIN 8046	4.320-05	9	WINDOW 6 FRAME
DIFF 608	RAD 8306	7.505-13	9	WINDOW 6 OUTER PRESSURE PANE
ARTH 609	RAD 8316	7.505-13	9	WINDOW 6 SHADE
602	3.831+00	9.200+03	9	WINDOW 6 FRAME
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 601	LIN 8026	3.300-04	9	WINDOW 6 FRAME ADAPTER
DIFF 608	LIN 8036	4.320-05	9	WINDOW 6 OUTER PRESSURE PANE
DIFF 603	LIN 8046	4.320-05	9	WINDOW 6 INNER PRESSURE PANE
601	2.488+00	1.292+03	9	WINDOW 6 FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 138	LIN 8016	1.595-03	7	PRESSURE SHELL SIDEWALL
DIFF 602	LIN 8026	3.300-04	9	WINDOW 6 FRAME
901	1.916+00	2.211+03	12	THCP SUPPLY ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 904	LIN 5002	1.576-04	12	THCP SUPPLY PLENUM
DIFF 905	LIN 5003	1.576-04	12	THCP SUPPLY PLENUM
DIFF 902	LIN 5004	4.847-04	12	THCP
DIFF 128	LIN 5011	6.658-05	5	PRESSURE SHELL TOP BULKHEAD
902	4.500+00	4.642+03	12	THCP
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 901	LIN 5004	4.847-04	12	THCP SUPPLY ADAPTER
DIFF 903	LIN 5005	4.847-04	12	THCP RETURN ADAPTER

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
903	1.916+00	2.211+03	12	THCP RETURN ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 902	LIN 5005	4.847-04	12	THCP
DIFF 906	LIN 5006	1.576-04	12	THCP RETURN PLENUM
DIFF 907	LIN 5007	1.576-04	12	THCP RETURN PLENUM
DIFF 189	LIN 5021	6.658-05	8	PRESSURE SHELL BOTTOM BULKHEAD
904	4.454+00	1.955+04	12	THCP SUPPLY PLENUM
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 905	LIN 5001	4.436-05	12	THCP SUPPLY PLENUM
DIFF 901	LIN 5002	1.576-04	12	THCP SUPPLY ADAPTER
DIFF 128	LIN 5012	7.353-06	5	PRESSURE SHELL TOP BULKHEAD
DIFF 125	LIN 5013	1.476-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 126	LIN 5014	3.719-06	5	PRESSURE SHELL TOP BULKHEAD
905	4.454+00	1.955+04	12	THCP SUPPLY PLENUM
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 904	LIN 5001	4.436-05	12	THCP SUPPLY PLENUM
DIFF 901	LIN 5003	1.576-04	12	THCP SUPPLY ADAPTER
DIFF 126	LIN 5015	1.107-05	5	PRESSURE SHELL TOP BULKHEAD
DIFF 127	LIN 5016	1.476-05	5	PRESSURE SHELL TOP BULKHEAD
906	4.454+00	1.955+04	12	THCP RETURN PLENUM
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 903	LIN 5006	1.576-04	12	THCP RETURN ADAPTER
DIFF 907	LIN 5008	4.436-05	12	THCP RETURN PLENUM
DIFF 189	LIN 5022	7.353-06	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 186	LIN 5023	1.476-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 187	LIN 5024	3.719-06	8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
907	4.454+00	1.955+04	12	THCP RETURN PLENUM
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 903	LIN 5007	1.576-04	12	THCP RETURN ADAPTER
DIFF 906	LIN 5008	4.436-05	12	THCP RETURN PLENUM
DIFF 187	LIN 5025	1.107-05	8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 188	LIN 5026	1.476-05	8	PRESSURE SHELL BOTTOM BULKHEAD

ARITHMETIC NODE PSEUDO-COMPUTE SEQUENCE FOLLOWS

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
689		9	WINDOW 1 SHADE
	TO NODE THRU CONDUCTOR		
DIFF 683	RAD 8311	7.505-13 9	WINDOW 1 INNER PRESSURE PANE
690		9	WINDOW 1 MOTOR SHAFT
	TO NODE THRU CONDUCTOR		
DIFF 685	LIN 8061	8.000-06 9	WINDOW 1 THERMAL PANE FRAME
ARTH 687	LIN 8071	1.690-05 9	WINDOW 1 MOTOR
BOUN 900	RAD 8371	1.460-16	COLD WALL BOUNDARY NODE
687		9	WINDOW 1 MOTOR
	TO NODE THRU CONDUCTOR		
ARTH 690	LIN 8071	1.690-05 9	WINDOW 1 MOTOR SHAFT
DIFF 7	RAD 8351	7.010-14 1	METEOROID SHIELD TOP BULKHEAD
679		9	WINDOW 2 SHADE
	TO NODE THRU CONDUCTOR		
DIFF 673	RAD 8312	7.505-13 9	WINDOW 2 INNER PRESSURE PANE
680		9	WINDOW 2 MOTOR SHAFT
	TO NODE THRU CONDUCTOR		
DIFF 675	LIN 8062	8.000-06 9	WINDOW 2 THERMAL PANE FRAME
ARTH 677	LIN 8072	1.690-05 9	WINDOW 2 MOTOR
BOUN 900	RAD 8372	1.460-16	COLD WALL BOUNDARY NODE
677		9	WINDOW 2 MOTOR
	TO NODE THRU CONDUCTOR		
ARTH 680	LIN 8072	1.690-05 9	WINDOW 2 MOTOR SHAFT
DIFF 15	RAD 8352	7.010-14 1	METEOROID SHIELD TOP BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
649		9	WINDOW 3 SHADE
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 643	RAD 8313	7.505-13 9	WINDOW 3 INNER PRESSURE PANE
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
650		9	WINDOW 3 MOTOR SHAFT
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 644	LIN 8063	8.000-06 9	WINDOW 3 THERMAL PANE FRAME
ARTH 647	LIN 8073	1.690-05 9	WINDOW 3 MOTOR
BOUN 900	RAD 8373	1.460-16	COLD WALL BOUNDARY NODE
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
647		9	WINDOW 3 MOTOR
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
ARTH 650	LIN 8073	1.690-05 9	WINDOW 3 MOTOR SHAFT
DIFF 34	RAD 8353	7.010-14 3	METEOROID SHIELD SIDEWALL
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
659		9	WINDOW 4 SHADE
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 653	RAD 8314	7.505-13 9	WINDOW 4 INNER PRESSURE PANE
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
660		9	WINDOW 4 MOTOR SHAFT
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 654	LIN 8064	8.000-06 9	WINDOW 4 THERMAL PANE FRAME
ARTH 657	LIN 8074	1.690-05 9	WINDOW 4 MOTOR
BOUN 900	RAD 8374	1.460-16	COLD WALL BOUNDARY NODE
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
657		9	WINDOW 4 MOTOR
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
ARTH 660	LIN 8074	1.690-05 9	WINDOW 4 MOTOR SHAFT
DIFF 30	RAD 8354	7.010-14 2	METEOROID SHIELD SIDEWALL

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
669		9	WINDOW 5 SHADE
	TO NODE THRU CONDUCTOR		
DIFF 663	RAD 8315	9	WINDOW 5 INNER PRESSURE PANE
	CONDUCTANCE 7.505-13		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
670		9	WINDOW 5 MOTOR SHAFT
	TO NODE THRU CONDUCTOR		
DIFF 664	LIN 8065	9	WINDOW 5 THERMAL PANE FRAME
ARTH 667	LIN 8075	9	WINDOW 5 MOTOR
BOUN 900	RAD 8375		COLD WALL BOUNDARY NODE
	CONDUCTANCE 1.460-16		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
667		9	WINDOW 5 MOTOR
	TO NODE THRU CONDUCTOR		
ARTH 670	LIN 8075	9	WINDOW 5 MOTOR SHAFT
DIFF 42	RAD 8355	2	METEOROID SHIELD SIDEWALL
	CONDUCTANCE 7.010-14		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
609		9	WINDOW 6 SHADE
	TO NODE THRU CONDUCTOR		
DIFF 603	RAD 8316	9	WINDOW 6 INNER PRESSURE PANE
	CONDUCTANCE 7.505-13		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
610		9	WINDOW MOTOR SHAFT
	TO NODE THRU CONDUCTOR		
DIFF 604	LIN 8066	9	WINDOW 6 THERMAL PANE FRAME
ARTH 607	LIN 8076	9	WINDOW 6 MOTOR
BOUN 900	RAD 8376		COLD WALL BOUNDARY NODE
	CONDUCTANCE 1.460-16		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
607		9	WINDOW 6 MOTOR
	TO NODE THRU CONDUCTOR		
ARTH 610	LIN 8076	9	WINDOW MOTOR SHAFT
DIFF 38	RAD 8356	3	METEOROID SHIELD SIDEWALL
	CONDUCTANCE 7.010-14		

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
301			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 101	LIN 1 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116	LIN 32 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
302			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 101	LIN 2 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 102	LIN 3 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
303			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 102	LIN 4 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 103	LIN 5 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
304			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 103	LIN 6 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 104	LIN 7 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
305			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 104	LIN 8 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 105	LIN 9 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
306			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 105	LIN 10 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 106	LIN 11 1.720-04	5	PRESSURE SHELL TOP BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
307			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 106 LIN 12 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
	DIFF 107 LIN 13 2.980-04 5		PRESSURE SHELL TOP BULKHEAD
308			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 107 LIN 14 2.980-04 5		PRESSURE SHELL TOP BULKHEAD
	DIFF 108 LIN 15 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
309			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 108 LIN 16 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
	DIFF 109 LIN 17 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
310			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 109 LIN 18 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
	DIFF 110 LIN 19 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
311			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 110 LIN 20 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
	DIFF 111 LIN 21 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
312			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 111 LIN 22 1.720-04 5		PRESSURE SHELL TOP BULKHEAD
	DIFF 112 LIN 23 1.720-04 5		PRESSURE SHELL TOP BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
313			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 112	LIN 24 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 113	LIN 25 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
314			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 113	LIN 26 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 114	LIN 27 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
315			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 114	LIN 28 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 115	LIN 29 2.980-04	5	PRESSURE SHELL TOP BULKHEAD
316			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 115	LIN 30 2.980-04	5	PRESSURE SHELL TOP BULKHEAD
DIFF 116	LIN 31 1.720-04	5	PRESSURE SHELL TOP BULKHEAD
317			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 117	LIN 37 3.550-03	5	PRESSURE SHELL TOP BULKHEAD
318			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 118	LIN 38 3.550-03	5	PRESSURE SHELL TOP BULKHEAD
319			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 119	LIN 39 3.550-03	5	PRESSURE SHELL TOP BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
320			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 120 LIN 40	3.550-03 5	PRESSURE SHELL TOP BULKHEAD
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
321			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 121 LIN 41	3.550-03 5	PRESSURE SHELL TOP BULKHEAD
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
322			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 122 LIN 42	3.550-03 5	PRESSURE SHELL TOP BULKHEAD
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
323			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 123 LIN 43	3.550-03 5	PRESSURE SHELL TOP BULKHEAD
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
324			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 124 LIN 44	3.550-03 5	PRESSURE SHELL TOP BULKHEAD
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
325			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 125 LIN 33	1.870-04 5	PRESSURE SHELL TOP BULKHEAD
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
326			TOP BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 126 LIN 34	1.870-04 5	PRESSURE SHELL TOP BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
327	TO NODE THRU CONDUCTOR DIFF 127 LIN 35	CONDUCTANCE 1.870-04 5	TOP BULKHEAD HARD POINT PRESSURE SHELL TOP BULKHEAD
328	TO NODE THRU CONDUCTOR DIFF 128 LIN 36	CONDUCTANCE 1.870-04 5	TOP BULKHEAD HARD POINT PRESSURE SHELL TOP BULKHEAD
340	TO NODE THRU CONDUCTOR DIFF 120 LIN 2001	CONDUCTANCE 7.600-04 5	FEEDTHRU PRESSURE SHELL TOP BULKHEAD
341	TO NODE THRU CONDUCTOR DIFF 124 LIN 2002	CONDUCTANCE 7.600-04 5	FEEDTHRU PRESSURE SHELL TOP BULKHEAD
342	TO NODE THRU CONDUCTOR DIFF 128 LIN 2003	CONDUCTANCE 7.460-04 5	FEEDTHRU PRESSURE SHELL TOP BULKHEAD
343	TO NODE THRU CONDUCTOR DIFF 131 LIN 2004	CONDUCTANCE 8.400-04 6	FEEDTHRU PRESSURE SHELL SIDEWALL
344	TO NODE THRU CONDUCTOR DIFF 133 LIN 2005	CONDUCTANCE 1.290-03 7	FEEDTHRU PRESSURE SHELL SIDEWALL

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
345	TO NODE THRU CONDUCTOR DIFF 137 LIN 2006	CONDUCTANCE 1.290-03 7	FEEDTHRU PRESSURE SHELL SIDEWALL
346	TO NODE THRU CONDUCTOR DIFF 139 LIN 2007	CONDUCTANCE 1.040-03 7	FEEDTHRU PRESSURE SHELL SIDEWALL
347	TO NODE THRU CONDUCTOR DIFF 141 LIN 2008	CONDUCTANCE 1.470-03 6,7	FEEDTHRU PRESSURE SHELL SIDEWALL
348	TO NODE THRU CONDUCTOR DIFF 145 LIN 2009	CONDUCTANCE 1.290-03 6	FEEDTHRU PRESSURE SHELL SIDEWALL
349	TO NODE THRU CONDUCTOR DIFF 165 LIN 2010	CONDUCTANCE 1.080-03 8	FEEDTHRU PRESSURE SHELL BOTTOM BULKHEAD
350	TO NODE THRU CONDUCTOR DIFF 169 LIN 2011	CONDUCTANCE 1.080-03 8	FEEDTHRU PRESSURE SHELL BOTTOM BULKHEAD
351	TO NODE THRU CONDUCTOR DIFF 173 LIN 2012	CONDUCTANCE 1.080-03 8	FEEDTHRU PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
352			FEEDTHRU
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 177 LIN 2013	1.080-03 8	PRESSURE SHELL BOTTOM BULKHEAD
353			FEEDTHRU
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 188 LIN 2014	7.460-04 8	PRESSURE SHELL BOTTOM BULKHEAD
362			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 162 LIN 50	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
	DIFF 177 LIN 81	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
363			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 162 LIN 51	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
	DIFF 163 LIN 52	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
364			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 163 LIN 53	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
	DIFF 164 LIN 54	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
365			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 164 LIN 55	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
	DIFF 165 LIN 56	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
366			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
	DIFF 165 LIN 57	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
	DIFF 166 LIN 58	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
367			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 166	LIN 59 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
DIFF 167	LIN 60 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
368			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 167	LIN 61 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
DIFF 168	LIN 62 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
369			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 168	LIN 63 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
DIFF 169	LIN 64 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
370			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 169	LIN 65 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
DIFF 170	LIN 66 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
371			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 170	LIN 67 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
DIFF 171	LIN 68 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
372			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 171	LIN 69 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD
DIFF 172	LIN 70 1.720-04 8		PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
373			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
DIFF 172	LIN 71	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 173	LIN 72	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
374			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
DIFF 173	LIN 73	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 174	LIN 74	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
375			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
DIFF 174	LIN 75	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 175	LIN 76	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
376			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
DIFF 175	LIN 77	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 176	LIN 78	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
377			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
DIFF 176	LIN 79	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
DIFF 177	LIN 80	1.720-04 8	PRESSURE SHELL BOTTOM BULKHEAD
378			BOTTOM BULKHEAD HARD POINT
	TO NODE THRU CONDUCTOR	CONDUCTANCE	
DIFF 178	LIN 86	3.550-03 8	PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
379	TO NODE THRU CONDUCTOR DIFF 179 LIN 87	CONDUCTANCE 3.550-03 8	BOTTOM BULKHEAD HARD POINT PRESSURE SHELL BOTTOM BULKHEAD
380	TO NODE THRU CONDUCTOR DIFF 180 LIN 88	CONDUCTANCE 3.550-03 8	BOTTOM BULKHEAD HARD POINT PRESSURE SHELL BOTTOM BULKHEAD
381	TO NODE THRU CONDUCTOR DIFF 181 LIN 89	CONDUCTANCE 3.550-03 8	BOTTOM BULKHEAD HARD POINT PRESSURE SHELL BOTTOM BULKHEAD
382	TO NODE THRU CONDUCTOR DIFF 182 LIN 90	CONDUCTANCE 3.550-03 8	BOTTOM BULKHEAD HARD POINT PRESSURE SHELL BOTTOM BULKHEAD
383	TO NODE THRU CONDUCTOR DIFF 183 LIN 91	CONDUCTANCE 3.550-03 8	BOTTOM BULKHEAD HARD POINT PRESSURE SHELL BOTTOM BULKHEAD
384	TO NODE THRU CONDUCTOR DIFF 184 LIN 92	CONDUCTANCE 3.550-03 8	BOTTOM BULKHEAD HARD POINT PRESSURE SHELL BOTTOM BULKHEAD
385	TO NODE THRU CONDUCTOR DIFF 185 LIN 93	CONDUCTANCE 3.550-03 8	BOTTOM BULKHEAD HARD POINT PRESSURE SHELL BOTTOM BULKHEAD

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
386			BOTTOM BULKHEAD HARD POINT
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 186	LIN 82	1.870-04 8	PRESSURE SHELL BOTTOM BULKHEAD
387			BOTTOM BULKHEAD HARD POINT
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 187	LIN 83	1.870-04 8	PRESSURE SHELL BOTTOM BULKHEAD
388			BOTTOM BULKHEAD HARD POINT
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 188	LIN 84	1.870-04 8	PRESSURE SHELL BOTTOM BULKHEAD
389			BOTTOM BULKHEAD HARD POINT
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 189	LIN 85	1.870-04 8	PRESSURE SHELL BOTTOM BULKHEAD
451		11	CENTER POST 1 FITTING
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 501	LIN 901	2.410-04 10	CYLINDRICAL INNER DOCKING HATCH
ARTH 452	LIN 902	1.260-04 11	CENTER POST 1 UPPER HALF
452		11	CENTER POST 1 UPPER HALF
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
ARTH 451	LIN 902	1.260-04 11	CENTER POST 1 FITTING
ARTH 453	LIN 903	7.160-05 11	CENTER POST 1 LOWER HALF
BOUN 401	RAD 938	2.960-14	ENVIRONMENT NODES
BOUN 402	RAD 939	2.150-14	ENVIRONMENT NODES
BOUN 403	RAD 940	2.150-14	ENVIRONMENT NODES
BOUN 404	RAD 941	1.230-14	ENVIRONMENT NODES

NODE NO	ARITHMETIC NODE				FIG NO	DESCRIPTION	
453					11	CENTER POST 1 LOWER HALF	
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE			
	ARTH	452	LIN	903	7.160-05	11	CENTER POST 1 UPPER HALF
	ARTH	454	LIN	904	1.260-04	11	CENTER POST 1 FITTING
	BOUN	401	RAD	942	1.230-14		ENVIRONMENT NODES
	BOUN	402	RAD	943	2.150-14		ENVIRONMENT NODES
	BOUN	403	RAD	944	2.150-14		ENVIRONMENT NODES
	BOUN	404	RAD	945	2.960-14		ENVIRONMENT NODES
454					11	CENTER POST 1 FITTING	
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE			
	DIFF	561	LIN	905	2.410-04	10	CYLINDRICAL INNER DOCKING HATCH
	ARTH	453	LIN	904	1.260-04	11	CENTER POST 1 LOWER HALF
455					11	CENTER POST 4 FITTING	
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE			
	DIFF	501	LIN	911	2.410-04	10	CYLINDRICAL INNER DOCKING HATCH
	ARTH	456	LIN	912	1.260-04	11	CENTER POST 4 UPPER HALF
456					11	CENTER POST 4 UPPER HALF	
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE			
	ARTH	455	LIN	912	1.260-04	11	CENTER POST 4 FITTING
	ARTH	457	LIN	913	7.160-05	11	CENTER POST 4 LOWER HALF
	BOUN	401	RAD	946	2.960-14		ENVIRONMENT NODES
	BOUN	402	RAD	947	2.150-14		ENVIRONMENT NODES
	BOUN	403	RAD	948	2.150-14		ENVIRONMENT NODES
	BOUN	404	RAD	949	1.230-14		ENVIRONMENT NODES
457					11	CENTER POST 4 LOWER HALF	
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE			
	ARTH	456	LIN	913	7.160-05	11	CENTER POST 4 UPPER HALF
	ARTH	458	LIN	914	1.260-04	11	CENTER POST 4 FITTING
	BOUN	401	RAD	950	1.230-14		ENVIRONMENT NODES
	BOUN	402	RAD	951	2.150-14		ENVIRONMENT NODES

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NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
457		11	CENTER POST 4 LOWER HALF
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	BOUN 403 RAD 952 2.150-14		ENVIRONMENT NODES
	BOUN 404 RAD 953 2.960-14		ENVIRONMENT NODES
458		11	CENTER POST 4 FITTING
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 561 LIN 915 2.410-04 10		CYLINDRICAL INNER DOCKING HATCH
	ARTH 457 LIN 914 1.260-04 11		CENTER POST 4 LOWER HALF
459		11	CENTER POST 3 FITTING
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 501 LIN 921 2.410-04 10		CYLINDRICAL INNER DOCKING HATCH
	ARTH 460 LIN 922 1.260-04 11		CENTER POST 3 UPPER HALF
460		11	CENTER POST 3 UPPER HALF
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 459 LIN 922 1.260-04 11		CENTER POST 3 FITTING
	ARTH 461 LIN 923 7.160-05 11		CENTER POST 3 LOWER HALF
	BOUN 401 RAD 954 2.960-14		ENVIRONMENT NODES
	BOUN 402 RAD 955 2.150-14		ENVIRONMENT NODES
	BOUN 403 RAD 956 2.150-14		ENVIRONMENT NODES
	BOUN 404 RAD 957 1.230-14		ENVIRONMENT NODES
461		11	CENTER POST 3 LOWER HALF
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 460 LIN 923 7.160-05 11		CENTER POST 3 UPPER HALF
	ARTH 462 LIN 924 1.260-04 11		CENTER POST 3 FITTING
	BOUN 401 RAD 958 1.230-14		ENVIRONMENT NODES
	BOUN 402 RAD 959 2.150-14		ENVIRONMENT NODES
	BOUN 403 RAD 960 2.150-14		ENVIRONMENT NODES
	BOUN 404 RAD 961 2.960-14		ENVIRONMENT NODES

NODE NO	ARITHMETIC NODE				FIG NO	DESCRIPTION
462					11	CENTER POST 3 FITTING
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE		
	DIFF	561	LIN 925	2.410-04	10	CYLINDRICAL INNER DOCKING HATCH
	ARTH	461	LIN 924	1.260-04	11	CENTER POST 3 LOWER HALF
NODE NO	ARITHMETIC NODE				FIG NO	DESCRIPTION
463					11	CENTER POST 2 FITTING
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE		
	DIFF	501	LIN 931	2.410-04	10	CYLINDRICAL INNER DOCKING HATCH
	ARTH	464	LIN 932	1.260-04	11	CENTER POST 2 UPPER HALF
NODE NO	ARITHMETIC NODE				FIG NO	DESCRIPTION
464					11	CENTER POST 2 UPPER HALF
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE		
	ARTH	463	LIN 932	1.260-04	11	CENTER POST 2 FITTING
	ARTH	465	LIN 933	7.160-05	11	CENTER POST 2 LOWER HALF
	BOUN	401	RAD 962	2.960-14		ENVIRONMENT NODES
	BOUN	402	RAD 963	2.150-14		ENVIRONMENT NODES
	BOUN	403	RAD 964	2.150-14		ENVIRONMENT NODES
	BOUN	404	RAD 965	1.230-14		ENVIRONMENT NODES
NODE NO	ARITHMETIC NODE				FIG NO	DESCRIPTION
465					11	CENTER POST 2 LOWER HALF
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE		
	ARTH	464	LIN 933	7.160-05	11	CENTER POST 2 UPPER HALF
	ARTH	466	LIN 934	1.260-04	11	CENTER POST 2 FITTING
	BOUN	401	RAD 966	1.230-14		ENVIRONMENT NODES
	BOUN	402	RAD 967	2.150-14		ENVIRONMENT NODES
	BOUN	403	RAD 968	2.150-14		ENVIRONMENT NODES
	BOUN	404	RAD 969	2.960-14		ENVIRONMENT NODES
NODE NO	ARITHMETIC NODE				FIG NO	DESCRIPTION
466					11	CENTER POST 2 FITTING
	TO NODE	THRU	CONDUCTOR	CONDUCTANCE		
	DIFF	561	LIN 935	2.410-04	10	CYLINDRICAL INNER DOCKING HATCH
	ARTH	465	LIN 934	1.260-04	11	CENTER POST 2 LOWER HALF

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
504		10	HATCH CYLINDRICAL METEOROID SHIELD
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF	503 LIN 7014 1.038-05	10	CYLINDRICAL OUTER DOCKING HATCH
DIFF	25 LIN 401 5.000-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF	26 LIN 402 5.000-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF	27 LIN 403 5.000-05	1	METEOROID SHIELD TOP BULKHEAD
DIFF	28 LIN 404 5.000-05	1	METEOROID SHIELD TOP BULKHEAD
BOUN	900 RAD 7026 7.150-13		COLD WALL BOUNDARY NODE
505		10	MOTOR
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF	126 LIN 7005 3.480-04	5	PRESSURE SHELL TOP BULKHEAD
ARTH	507 LIN 7007 1.560-05	10	MOTOR SHAFT
ARTH	506 LIN 7006 6.467-07	10	MOTOR COVER
506		10	MOTOR COVER
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH	505 LIN 7006 6.467-07	10	MOTOR
BOUN	900 RAD 7028 1.290-13		COLD WALL BOUNDARY NODE
507		10	MOTOR SHAFT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH	505 LIN 7007 1.560-05	10	MOTOR
ARTH	509 LIN 7008 7.750-06	10	MOTOR COMPONENTS
BOUN	900 RAD 7029 9.100-15		COLD WALL BOUNDARY NODE
508		10	MOTOR INSULATION OUTER SURFACE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH	509 LIN 7010 1.944-06	10	MOTOR COMPONENTS
BOUN	900 RAD 7030 1.460-13		COLD WALL BOUNDARY NODE

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
509		10	MOTOR COMPONENTS
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 126	LIN 7004	4.000-05 5	PRESSURE SHELL TOP BULKHEAD
ARTH 507	LIN 7008	7.750-06 10	MOTOR SHAFT
ARTH 512	LIN 7009	1.260-04 10	HATCH COVER STRUCTURE
ARTH 508	LIN 7010	1.944-06 10	MOTOR INSULATION OUTER SURFACE
ARTH 510	LIN 7011	1.944-06 10	MOTOR INSULATION INNER SURFACE
510		10	MOTOR INSULATION INNER SURFACE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 509	LIN 7011	1.944-06 10	MOTOR COMPONENTS
511		10	HATCH COVER METEOROID SHIELD
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 512	LIN 7012	1.202-05 10	HATCH COVER STRUCTURE
BOUN 900	RAD 7031	9.000-13	COLD WALL BOUNDARY NODE
512		10	HATCH COVER STRUCTURE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 509	LIN 7009	1.260-04 10	MOTOR COMPONENTS
ARTH 511	LIN 7012	1.202-05 10	HATCH COVER METEOROID SHIELD
ARTH 513	LIN 7013	1.202-05 10	HATCH COVER INSULATION
513		10	HATCH COVER INSULATION
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 512	LIN 7013	1.202-05 10	HATCH COVER STRUCTURE
DIFF 502	RAD 7023	1.830-13 10	CLOSURE PLATE
DIFF 501	RAD 7024	1.520-13 10	CYLINDRICAL INNER DOCKING HATCH
DIFF 503	RAD 7025	1.740-13 10	CYLINDRICAL OUTER DOCKING HATCH

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
524		10	HATCH CYLINDRICAL METEOROID SHIELD
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 523 LIN 7114 1.038-05	10	CYLINDRICAL OUTER DOCKING HATCH
	BOUN 900 RAD 7126 7.150-13		COLD WALL BOUNDARY NODE
525		10	MOTOR
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 526 LIN 7106 6.467-07	10	MOTOR COVER
	DIFF 135 LIN 7105 2.040-04	7	PRESSURE SHELL SIDEWALL
	ARTH 527 LIN 7107 1.560-05	10	MOTOR SHAFT
526		10	MOTOR COVER
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 525 LIN 7106 6.467-07	10	MOTOR
	BOUN 900 RAD 7128 1.290-13		COLD WALL BOUNDARY NODE
527		10	MOTOR SHAFT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 525 LIN 7107 1.560-05	10	MOTOR
	ARTH 529 LIN 7108 7.750-06	10	MOTOR COMPONENTS
	BOUN 900 RAD 7129 9.100-15		COLD WALL BOUNDARY NODE
528		10	MOTOR INSULATION OUTER SURFACE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 529 LIN 7110 1.343-06	10	MOTOR COMPONENTS
	BOUN 900 RAD 7130 1.460-13		COLD WALL BOUNDARY NODE
529		10	MOTOR COMPONENTS
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 528 LIN 7110 1.343-06	10	MOTOR INSULATION OUTER SURFACE
	ARTH 530 LIN 7111 1.343-06	10	MOTOR INSULATION INNER SURFACE
	DIFF 135 LIN 7104 4.900-05	7	PRESSURE SHELL SIDEWALL
	ARTH 527 LIN 7108 7.750-06	10	MOTOR SHAFT

*** CONTINUATION

PAGE 120

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
529		10	MOTOR COMPONENTS
	TO NODE THRU CONDUCTOR		
ARTH 532	LIN 7109	10	HATCH COVER STRUCTURE
CONDUCTANCE	1.260-04		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
530		10	MOTOR INSULATION INNER SURFACE
	TO NODE THRU CONDUCTOR		
ARTH 529	LIN 7111	10	MOTOR COMPONENTS
CONDUCTANCE	1.343-06		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
531		10	HATCH COVER METEOROID SHIELD
	TO NODE THRU CONDUCTOR		
ARTH 532	LIN 7112	10	HATCH COVER STRUCTURE
BOUN 900	RAD 7131		COLD WALL BOUNDARY NODE
CONDUCTANCE	9.000-13		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
532		10	HATCH COVER STRUCTURE
	TO NODE THRU CONDUCTOR		
ARTH 531	LIN 7112	10	HATCH COVER METEOROID SHIELD
ARTH 533	LIN 7113	10	HATCH COVER INSULATION
ARTH 529	LIN 7109	10	MOTOR COMPONENTS
CONDUCTANCE	1.202-05		
CONDUCTANCE	1.202-05		
CONDUCTANCE	1.260-04		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
533		10	HATCH COVER INSULATION
	TO NODE THRU CONDUCTOR		
ARTH 532	LIN 7113	10	HATCH COVER STRUCTURE
DIFF 522	RAD 7123	10	CLOSURE PLATE
DIFF 521	RAD 7124	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 523	RAD 7125	10	CYLINDRICAL OUTER DOCKING HATCH
CONDUCTANCE	1.202-05		
CONDUCTANCE	1.830-13		
CONDUCTANCE	1.520-13		
CONDUCTANCE	1.740-13		
NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
544		10	HATCH CYLINDRICAL METEOROID SHIELD
	TO NODE THRU CONDUCTOR		
DIFF 543	LIN 7214	10	CYLINDRICAL OUTER DOCKING HATCH
BOUN 900	RAD 7226		COLD WALL BOUNDARY NODE
CONDUCTANCE	1.038-05		
CONDUCTANCE	7.150-13		

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
545		10	MOTOR
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 143	LIN 7205	2.040-04 6	PRESSURE SHELL SIDEWALL
ARTH 546	LIN 7206	6.467-07 10	MOTOR COVER
ARTH 547	LIN 7207	1.560-05 10	MOTOR SHAFT
546		10	MOTOR COVER
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 545	LIN 7206	6.467-07 10	MOTOR
BOUN 900	RAD 7228	1.290-13	COLD WALL BOUNDARY NODE
547		10	MOTOR SHAFT
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 545	LIN 7207	1.560-05 10	MOTOR
ARTH 549	LIN 7208	7.750-06 10	MOTOR COMPONENTS
BOUN 900	RAD 7229	9.100-15	COLD WALL BOUNDARY NODE
548		10	MOTOR INSULATION OUTER SURFACE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 549	LIN 7210	1.343-06 10	MOTOR COMPONENTS
BOUN 900	RAD 7230	1.460-13	COLD WALL BOUNDARY NODE
549		10	MOTOR COMPONENTS
	TO NODE THRU CONDUCTOR CONDUCTANCE		
DIFF 143	LIN 7204	4.900-05 6	PRESSURE SHELL SIDEWALL
ARTH 547	LIN 7208	7.750-06 10	MOTOR SHAFT
ARTH 548	LIN 7210	1.343-06 10	MOTOR INSULATION OUTER SURFACE
ARTH 552	LIN 7209	1.260-04 10	HATCH COVER STRUCTURE
ARTH 550	LIN 7211	1.343-06 10	MOTOR INSULATION INNER SURFACE

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
550		10	MOTOR INSULATION INNER SURFACE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 549 LIN 7211 1.343-06	10	MOTOR COMPONENTS
551		10	HATCH COVER METEOROID SHIELD
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 552 LIN 7212 1.202-05	10	HATCH COVER STRUCTURE
	BOUN 900 RAD 7231 9.000-13		COLD WALL BOUNDARY NODE
552		10	HATCH COVER STRUCTURE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 549 LIN 7209 1.260-04	10	MOTOR COMPONENTS
	ARTH 551 LIN 7212 1.202-05	10	HATCH COVER METEOROID SHIELD
	ARTH 553 LIN 7213 1.202-05	10	HATCH COVER INSULATION
553		10	HATCH COVER INSULATION
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	ARTH 552 LIN 7213 1.202-05	10	HATCH COVER STRUCTURE
	DIFF 542 RAD 7223 1.830-13	10	CLOSURE PLATE
	DIFF 541 RAD 7224 1.520-13	10	CYLINDRICAL INNER DOCKING HATCH
	DIFF 543 RAD 7225 1.740-13	10	CYLINDRICAL OUTER DOCKING HATCH
564		10	HATCH CYLINDRICAL METEOROID SHIELD
	TO NODE THRU CONDUCTOR CONDUCTANCE		
	DIFF 563 LIN 7314 1.038-05	10	CYLINDRICAL OUTER DOCKING HATCH
	DIFF 88 LIN 589 5.000-05	4	METEOROID SHIELD BOTTOM BULKHEAD
	DIFF 89 LIN 590 5.000-05	4	METEOROID SHIELD BOTTOM BULKHEAD
	DIFF 86 LIN 591 5.000-05	4	METEOROID SHIELD BOTTOM BULKHEAD
	DIFF 87 LIN 592 5.000-05	4	METEOROID SHIELD BOTTOM BULKHEAD
	BOUN 900 RAD 7326 7.150-13		COLD WALL BOUNDARY NODE

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
565		10	MOTOR
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 186	LIN 7305	3.480-04 8	PRESSURE SHELL BOTTOM BULKHEAD
ARTH 566	LIN 7306	6.467-07 10	MOTOR COVER
ARTH 567	LIN 7307	1.560-05 10	MOTOR SHAFT
566		10	MOTOR COVER
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
ARTH 565	LIN 7306	6.467-07 10	MOTOR
BOUN 900	RAD 7328	1.290-13	COLD WALL BOUNDARY NODE
567		10	MOTOR SHAFT
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
ARTH 565	LIN 7307	1.560-05 10	MOTOR
ARTH 569	LIN 7308	7.750-06 10	MOTOR COMPONENTS
BOUN 900	RAD 7329	9.100-15	COLD WALL BOUNDARY NODE
568		10	MOTOR INSULATION OUTER SURFACE
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
ARTH 569	LIN 7310	1.944-06 10	MOTOR COMPONENTS
BOUN 900	RAD 7330	1.460-13	COLD WALL BOUNDARY NODE
569		10	MOTOR COMPONENTS
TO NODE	THRU CONDUCTOR	CONDUCTANCE	
DIFF 186	LIN 7304	4.000-05 8	PRESSURE SHELL BOTTOM BULKHEAD
ARTH 567	LIN 7308	7.750-06 10	MOTOR SHAFT
ARTH 572	LIN 7309	1.260-04 10	HATCH COVER STRUCTURE
ARTH 568	LIN 7310	1.944-06 10	MOTOR INSULATION OUTER SURFACE
ARTH 570	LIN 7311	1.944-06 10	MOTOR INSULATION INNER SURFACE

NODE NO	ARITHMETIC NODE	FIG NO	DESCRIPTION
570		10	MOTOR INSULATION INNER SURFACE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 569	LIN 7311 1.944-06	10	MOTOR COMPONENTS
571		10	HATCH COVER METEOROID SHIELD
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 572	LIN 7312 1.202-05	10	HATCH COVER STRUCTURE
BOUN 900	RAD 7331 9.000-13		COLD WALL BOUNDARY NODE
572		10	HATCH COVER STRUCTURE
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 569	LIN 7309 1.260-04	10	MOTOR COMPONENTS
ARTH 571	LIN 7312 1.202-05	10	HATCH COVER METEOROID SHIELD
ARTH 573	LIN 7313 1.202-05	10	HATCH COVER INSULATION
573		10	HATCH COVER INSULATION
	TO NODE THRU CONDUCTOR CONDUCTANCE		
ARTH 572	LIN 7313 1.202-05	10	HATCH COVER STRUCTURE
DIFF 562	RAD 7323 1.830-13	10	CLOSURE PLATE
DIFF 561	RAD 7324 1.520-13	10	CYLINDRICAL INNER DOCKING HATCH
DIFF 563	RAD 7325 1.740-13	10	CYLINDRICAL OUTER DOCKING HATCH

END OF DATA

APPENDIX B
INTRAD LISTING

SUBROUTINE INTRAD

COMMON /TEMP/ T

COMMON /CAP / C

COMMON /FIXCON/ TIMEN , DTIMEU

DIMENSION TA(23),QA(23),FACT(20),FACTI(20),ARS(23)

DIMENSION NR(133),NNA(23),GR(276),T(1),C(1),FAC(133)

DATA (NR(I),I=1,133)/

NOD NUM

138,39,54,55,36,37,52,53,274,34,35,50,51,92,32,33,48,49,256,30,31,
 246,47,44,29,60,45,262,42,43,58,59,96,40,41,56,57,268,68,69,70,71,
 380,81,82,87,88,64,65,66,67,78,79,80,86,87,63,62,61,76,78,77,84,
 485,86,72,73,74,75,82,83,84,88,85,85,86,87,88,99,10,9,8,20,21,27,
 511,22,28,18,19,20,27,26,7,6,5,4,244,18,17,24,26,25,3,2,1,16,22,
 623,24,28,25,15,14,13,12,250,25,26,27,28,90,
 9282,283,282,283,280,281,280,281,277,278,279/

DATA (NNA(I),I=1,23)/

NODES/RS

14,5,5,5,4,5,5,5,9,9,9,9,5,9,10,9,10,5,2,2,2,2,3/

DATA (FAC(I),I=1,133)/

NOD AREA

11440.,1440.,1440.,1440.,1442.,1112.,1442.,1442.,330.,
 21430.,630.,1430.,1430.,800.,1422.,1092.,1422.,1422.,330.,
 31403.,1403.,1403.,1403.,1430.,1100.,1430.,1430.,330.,
 41443.,643.,1443.,1443.,800.,1410.,1080.,1410.,1410.,330.,
 5700.,700.,700.,700.,505.,700.,510.,247.,82.,695.,695.,695.,695.,
 6510.,695.,510.,247.,82.,705.,705.,705.,705.,520.,705.,520.,247.,
 782.,725.,725.,725.,725.,530.,725.,530.,262.,87.,165.,165.,165.,
 8165.,801.,700.,700.,0,700.,504.,700.,0,247.,700.,510.,82.,520.,710.,
 9520.,87.,248.,400.,710.,710.,710.,310.,510.,700.,510.,82.,242.,
 1700.,700.,700.,700.,518.,710.,518.,246.,82.,400.,710.,710.,710.,
 2310.,165.,165.,165.,165.,801.,1730.,1730.,1722.,1723.,1740.,1740.,
 31732.,1733.,706.,3500.,706./

DATA (GR(I),I=1,75)/

SCRIPTFA

3.3777E02,	.4258E02,	.3842E02,	.3353E02,	.8440E02,
3.3308E02,	.3871E02,	.2479E02,	.1657E03,	.8636E02,
3.7312E02,	.1148E03,	.5930E01,	.3265E02,	.1728E02,
3.1372E02,	.2184E02,	.5616E01,	.1705E02,	.1279E02,
3.1746E02,	.1259E02,	.2577E02,	.3529E02,	.3838E02,
3.3771E02,	.9841E02,	.3293E02,	.3203E02,	.2216E02,
3.1625E03,	.1087E03,	.7499E02,	.8857E02,	.5771E01,
3.3201E02,	.2123E02,	.1412E02,	.1658E02,	.5464E01,
3.1568E02,	.1366E02,	.1595E02,	.1356E02,	.2223E02,
3.3440E02,	.4097E02,	.1061E03,	.3448E02,	.3409E02,
3.2072E02,	.1070E03,	.1598E03,	.8154E02,	.8357E02,

3.5692E01, .2066E02, .3170E02, .1528E02, .1569E02,
3.5390E01, .1399E02, .1521E02, .1395E02, .1541E02,
3.1936E02, .3507E02, .1096E03, .3773E02, .3506E02,
3.2071E02, .8500E02, .1606E03, .1060E03, .8492E02/

DATA (GR(I), I=76, 150)/

3.5816E01, .1620E02, .3188E02, .2019E02, .1594E02,
3.5511E01, .1391E02, .1638E02, .1375E02, .1671E02,
3.1816E02, .2840E03, .1169E03, .1091E03, .6370E02,
3.2251E03, .2896E03, .4531E03, .2682E03, .1654E02,
3.4314E02, .5681E02, .8841E02, .5031E02, .1567E02,
3.3963E02, .4671E02, .3921E02, .4763E02, .5011E02,
3.3385E02, .3808E02, .2354E02, .8034E02, .8479E02,
3.1559E03, .1101E03, .5657E01, .1541E02, .1657E02,
3.3040E02, .2089E02, .5352E01, .1391E02, .1514E02,
3.1387E02, .1538E02, .1866E02, .3521E02, .2622E02,
3.8491E02, .8008E02, .1055E03, .1670E03, .5775E01,
3.1623E02, .1572E02, .2010E02, .3251E02, .5469E01,
3.1576E02, .1374E02, .1606E02, .1369E02, .2074E02,
3.1411E02, .6219E02, .4746E02, .5155E02, .1052E03,
3.3709E01, .1200E02, .9291E01, .9682E01, .2049E02/

DATA (GR(I), I=151, 225)/

3.3523E01, .1051E02, .8483E01, .1076E02, .8378E01,
3.1534E02, .2957E03, .2265E03, .1844E03, .2417E03,
3.1545E02, .8432E02, .5596E02, .3677E02, .5439E02,
3.1681E02, .4985E02, .3222E02, .4219E02, .3958E02,
3.5932E02, .2885E03, .2159E03, .2010E03, .1503E02,
3.5516E02, .8598E02, .4895E02, .3894E02, .1640E02,
3.3292E02, .4815E02, .4032E02, .4039E02, .4663E02,
3.2669E03, .2295E03, .1457E02, .3735E02, .5262E02,
3.8035E02, .5485E02, .1593E02, .3183E02, .4692E02,
3.3919E02, .3923E02, .4333E02, .3224E03, .1622E02,
3.5537E02, .4152E02, .5503E02, .8881E02, .1772E02,
3.5169E02, .3409E02, .4517E02, .4257E02, .6294E02,
3.1788E01, .3427E01, .3382E01, .3206E01, .3508E01,
3.2013E01, .6470E01, .6398E01, .3110E01, .3027E01,
3.3714E01, .1102E02, .8415E01, .6583E01, .8697E01/

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3.2835E01, .8017E01, .7753E01, .9918E01, .6099E01,
3.1158E02, .1095E02, .7907E01, .7334E01, .2796E01,
3.7986E01, .7803E01, .6371E01, .9651E01, .9155E01,
3.9583E01, .8067E01, .2626E01, .7557E01, .7348E01,

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3.5940E01, .9211E01, .8229E01, .1162E02, .2912E01,
3.8245E01, .7991E01, .1016E02, .6355E01, .1158E02,
3.1693E01, .2976E01, .2906E01, .6370E01, .6291E01,
3.3569E01, .8295E01, .7874E01, .5415E01, .5455E01,
3.7385E01, .7964E01, .5469E01, .5051E01, .6789E01,
3.8486E01, .7852E01, .7504E01, .8105E01, .6770E01,
3.8844E01/
  DATA (ARS(I), I=1, 23)/
3.5760E04, .5770E04, .5720E04, .5690E04, .5612E04,
3.5719E04, .5773E04, .5640E04, .4844E04, .4824E04,
3.4894E04, .5034E04, .1461E04, .4843E04, .4925E04,
3.4844E04, .4914E04, .1461E04, .3460E04, .3445E04,
3.3480E04, .3465E04, .4912E04/
  SIGZ=C.1713E-8/(3600.0*144.0)
C   COMPUTE AREA TEMPS
  NNN=0
  DO 1 K=1, 23
    TA(K)=0.
    NNAK = NNA(K)
    DO 2 I=1, NNAK
      NNN=NNN+1
      NNR=NR(NNN)
2    TA(K)=TA(K)+T(NNR)*(FAC(NNN)/ARS(K))
1  CONTINUE
  DO 942 I=1, 23
942  TA(I)=TA(I)+460
C   COMPUTE Q TO AREAS BY INTERNAL RADIATION
  K=0
  N=1
  DO 5 I=1, 23
5    QA(I)=0.
    DO 10 J=1, 22
      DO 11 I=N, 23
        K=K+1
        QT=(TA(I)**4 - TA(J)**4)*GR(K)
        QT=QT*SIGZ
        QA(J)=QA(J)+QT
11    QA(I)=QA(I)-QT
10    N=N+1
C   COMPUTE NEW TEMPERATURES
  NST=1

```

TOT AREA

```

DO 30 I=1,23
SMAR4 = 0.
SMAR4I=0.
NSP = NST + NNA(I) - 1
K = 0
DO 20 J = NST,NSP
K = K+1
NNR = NR(J)
FOURT = (T(NNR)+ 460.)**4
FACT(K) = FAC(J)*FOURT
FACTI(K) = FAC(J)/FOURT
SMAR4I = SMAR4I+1.*FACTI(K)
20 SMAR4 = SMAR4 + FACT(K)
K= 0
DO 29 J=NST,NSP
K=K+1
NNR = NR(J)
IF(QA(I).GT.0.) GO TO 22
21 T(NNR) = T(NNR)+FACT(K)/SMAR4*DTIMEU*QA(I)/C(NNR)
GO TO 29
22 T(NNR) = T(NNR)+FACTI(K)/SMAR4I*DTIMEU*QA(I)/C(NNR)
29 CONTINUE
30 NST = NSP + 1
RETURN
END

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APPENDIX C

- 1) STB QUARTER SECTION TMM CARD LISTING
- 2) STB QUARTER SECTION RC NETWORK LISTING (CSGDMP)

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BCD 3THERMAL SPCS
BCD 9QUARTER SECTION DETAILED THERMAL MATH MODEL
END
BCD 3NODE DATA
REM
REM PRESSURE SHELL NODES
REM
3136, 70., 2.234, 137, 70., 1.840, 4137, 70., 1.840
3137, 70., 1.840, 5137, 70., 1.840, 138, 70., 1.302
4138, 70., 1.302, 3138, 70., 1.302, 5138, 70., 1.302
139, 70., 1.690, 4139, 70., 1.690, 3139, 70., 1.690
5139, 70., 1.690, 3140, 70., 1.457, 4140, 70., 1.457
3152, 70., 3.339, 4152, 70., 3.339, 153, 70., 2.144
4153, 70., 2.144, 3153, 70., 2.144, 5153, 70., 2.144
154, 70., 2.219, 4154, 70., 2.219, 3154, 70., 2.219
5154, 70., 2.219, 155, 70., 2.144, 4155, 70., 2.144
3155, 70., 2.144, 5155, 70., 2.144, 3156, 70., 2.144
4156, 70., 2.144
REM
REM HATCH NODES
REM
1522, 70., 10.93, 521, 70., 3.395
REM
REM WINDOW NODES
REM
GEN 601,4,10,70.,1.,1.,1.,0.622 $ OUTER FRAME
GEN 602,4,10,70.,1.,1.,1.,0.958 $ INNER FRAME
GEN 603,4,10,70.,1.,1.,1.,0.205 $ INNER PANE
GEN 605,4,10,70.,1.,1.,1.,0.202 $ THERMAL PANE
GEN 608,4,10,70.,1.,1.,1.,0.205 $ OUTER PANE
975, 50., -1.0 $ WINDOW SHADE NODE
REM
REM BOUNDARY NODES- MS AND PS
REM
-36, 70., 0., -37, 70., 0., -38, 70., 0., -39, 70., 0.
-40, 70., 0., -52, 70., 0., -53, 70., 0., -54, 70., 0.
-55, 70., 0., -56, 70., 0., -107, 70., 0., -108, 70., 0.
-109, 70., 0., -110, 70., 0., -111, 70., 0., -168, 70., 0.
-169, 70., 0., -170, 70., 0., -171, 70., 0., -172, 70., 0.
-140, 70., 0., -156, 70., 0., -136, 70., 0., -152, 70., 0.
REM

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```

REM BOUNDARY NODES- HATCH
REM
-522, 70., 0., -523, 70., 0., -533, 70., 0.
REM
REM WINDOW BOUNDARY NODES
REM
GEN -604,4,10,70.,1.,1.,1.,1.      $ THERMAL PANE FRAME DRIVERS
REM
REM ENVIRONMENT NODES
REM
-900,-320.,1.                      $ SPACE
-950, 70., 19                      $ CABIN AIR TEMP NODE
-920,70.,1.      $ RADIATION SINK NODE
END
BCD 3CONDUCTOR DATA
REM
REM LATERAL P-S CONDUCTORS
REM
100, 3136, 137, 2.80E-4, 101, 137, 4137, 2.15E-4
102, 4137, 138, 2.15E-4, 103, 138, 4138, 1.25E-4
104, 4138, 139, 2.13E-4, 105, 139, 4139, 2.13E-4
106, 4139, 3140, 1.73E-4, 107, 3137, 5137, 2.15E-4
108, 5137, 3138, 2.15E-4, 109, 3138, 5138, 1.25E-4
110, 5138, 3139, 2.13E-4, 111, 3139, 5139, 2.13E-4
112, 5139, 4140, 1.73E-4, 113, 3152, 153, 1.23E-4
114, 153, 4153, 1.43E-4, 115, 4153, 154, 1.43E-4
116, 154, 4154, 1.43E-4, 117, 4154, 155, 1.55E-4
118, 155, 4155, 1.55E-4, 119, 4155, 3156, 1.71E-4
120, 4152, 3153, 1.63E-4, 121, 3153, 5153, 1.43E-4
122, 5153, 3154, 1.22E-4, 123, 3154, 5154, 1.23E-4
124, 5154, 3155, 1.55E-4, 125, 3155, 5155, 1.55E-4
126, 5155, 4156, 1.71E-4, 127, 4152, 3152, 9.44E-5
128, 3153, 153, 9.44E-5, 129, 153, 3137, 9.44E-5
130, 3137, 137, 9.44E-5, 131, 5153, 4153, 9.44E-5
132, 4153, 5137, 9.44E-5, 133, 5137, 4137, 9.44E-5
134, 3154, 154, 1.05E-4, 135, 154, 3138, 1.05E-4
136, 3138, 138, 5.26E-5, 137, 5154, 4154, 1.05E-4
138, 4154, 5138, 1.05E-4, 139, 5138, 4138, 5.26E-5
140, 3155, 155, 1.16E-4, 141, 155, 3139, 1.16E-4
142, 3139, 139, 1.16E-4, 143, 5155, 4155, 1.16E-4
144, 4155, 5139, 1.16E-4, 145, 5139, 4139, 1.16E-4

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146, 4156, 3156, 1.16E-4, 147, 3156, 4140, 1.16E-4
148, 4140, 3140, 1.16E-4

REM

REM OTHER P-S CONDUCTORS

REM

201, 137, 108, 8.470E-5, 202, 108,4137, 8.470E-5
203, 138, 109, 2.250E-4, 204, 109,4138, 2.250E-4
205, 139, 110, 1.078E-4, 206, 110,4139, 1.078E-4
207,3153, 169, 8.470E-5, 208, 169,5153, 8.470E-5
209, 170,3154, 8.470E-5, 210, 170,5154, 8.470E-5
211, 171,3155, 1.078E-4, 212, 171,5155, 1.078E-4
213, 172,4156, 1.078E-4, 214, 168,4152, 8.470E-5
215, 152,4152, 1.077E-4, 216, 152,3152, 1.077E-4
217, 522,1522, 2.560E-3, 218, 136,3136, 2.150E-4
219, 107,3136, 3.172E-4, 220, 111,3140, 1.077E-4
221, 140,3140, 1.730E-4, 222, 140,4140, 1.730E-4
223, 156,3156, 1.710E-4, 224, 156,4156, 1.710E-4
225, 521,3152, 2.520E-3, 226, 521,3137, 2.520E-3
227, 521,3136, 2.520E-3, 228, 521,1522, 3.750E-3
229, 521, 523, 2.280E-3

REM

REM FROM MS TO PS THRU MLI

REM

501, 36,3136, 0., 502, 37, 137, 0., 503, 37,4137, 0.
504, 37,3137, 0., 505, 37,5137, 0., 506, 38,3138, 0.
507, 38,5138, 0., 508, 38, 138, 0., 509, 38,4138, 0.
510, 39, 139, 0., 511, 39,4139, 0., 512, 39,3139, 0.
513, 39,5139, 0., 514, 40,3140, 0., 515, 40,4140, 0.
516, 52,3152, 0., 517, 52,4152, 0., 518, 53, 153, 0.
519, 53,4153, 0., 520, 53,3153, 0., 521, 53,5153, 0.
522, 54, 154, 0., 523, 54,4154, 0., 524, 54,3154, 0.
525, 54,5154, 0., 526, 55, 155, 0., 527, 55,4155, 0.
528, 55,3155, 0., 529, 55,5155, 0., 530, 56,3156, 0.
531, 56,4156, 0.

REM

REM WINDOW CONDUCTORS

REM

GEN 301,4,20,604,10,605,10,3.2E-5,1.,1.,1. \$TPF TO TP
GEN 303,4,20,604,10,602,10,1.44E-6,1.,1.,1. \$ TPF TO IF
GEN 306,4,20,603,10,602,10,7.85E-5,1.,1.,1. \$ OP TO IF
GEN 307,4,20,608,10,602,10,7.850E-5,1.,1.,1. \$ IP TO IF

GEN 308,4,20,602,10,601,10,5.75E-4,1.,1.,1. \$ IF TO OF
 GEN 309,4,20,38,0,601,10,1.5E-6,1.,1.,1. \$ MS TO O-F
 GEN 310,4,20,38,0,602,10,1.9E-6,1.,1.,1. \$ MS TO I-F
 311,601,4138,3.99E-4 \$ OUTER FRAME TO PRESS. SHELL COND.
 331,611,5138,3.99E-4
 351,621,3138,3.99E-4
 371,631,138, 3.99E-4
 GEN 312,3,20,605,10,615,10,6.14E-6,1.,1.,1. \$ INSIDE THERMAL-PANE
 372,635,605,6.14E-6 \$ DITTO
 GEN 313,3,20,608,10,618,10,7.67E-6,1.,1.,1. \$ INSIDE OUTER-PANE
 373,638,608,7.67E-6 \$ DO
 GEN 314,3,20,603,10,613,10,7.67E-6,1.,1.,1. \$ INSIDE INNER-PANE
 374,633,603,7.67E-6 \$ DO
 GEN 315,3,20,602,10,612,10,4.42E-5,1.,1.,1. \$ INSIDE INNER-FRAME
 375,632,602,4.42E-5 \$ DO
 GEN 316,3,20,601,10,611,10,4.42E-5,1.,1.,1. \$ INSIDE OUTER-FRAME
 376,631,601,4.42E-5

REM
 REM CONDUCTORS FROM P-S TO CABIN AIR
 REM

400,3136,950,1.,401, 137,950,1.,402,4137,950,1.
 403,3137,950,1.,404,5137,950,1.,405, 138,950,1.
 406,4138,950,1.,407,3138,950,1.,408,5138,950,1.
 409, 139,950,1.,410,4139,950,1.,411,3139,950,1.
 412,5139,950,1.,413,3140,950,1.,414,4140,950,1.
 415,3152,950,1.,416,4152,950,1.,417, 153,950,1.
 418,4153,950,1.,419,3153,950,1.,420,5153,950,1.
 421, 154,950,1.,422,4154,950,1.,423,3154,950,1.
 424,5154,950,1.,425, 155,950,1.,426,4155,950,1.
 427,3155,950,1.,428,5155,950,1.,429,3156,950,1.
 430,4156,950,1.,431,1522,950,1.,432, 521,950,1.
 433, 601,950,1.,434, 611,950,1.,435, 621,950,1.
 436, 631,950,1.,437, 602,950,1.,438, 612,950,1.
 439, 622,950,1.,440, 632,950,1.,441, 603,950,1.
 442, 613,950,1.,443, 623,950,1.,444, 633,950,1.
 445, 975, 950, 1. \$ SHADE TO AIR

REM
 REM SHADE CONDUCTORS
 REM

GEN 885,4,1,975,0,601,10,1.0E-6,1.,1.,1. \$ OF TO SHADE
 GEN -875,4,1,975,0,603,10,3.59E-15,1.,1.,1. \$ IP TO SHADE

```

REM
REM HATCH RADIATION CONDUCTORS
REM
  -700,522,521,8.7E-14
  -701,523,1522,7.6E-14
  -702,533,1522,9.2E-14
  -703,533,521,7.6E-14
REM
REM WINDOW RADIATION CONDUCTORS
REM
GEN -921,4,1,608,10,900,0,1.,1.,1.,1.  $ OP TO SPACE
GEN -300,4,20,900,0,605,10,1.65E-14,1.,1.,1.  $ TP TO SPACE
GEN -302,4,20,604,10,608,10,3.57E-15,1.,1.,1.  $ TPF TO OP
GEN -304,4,20,605,10,608,10,2.03E-15,1.,1.,1.  $ TP TO OP
GEN -305,4,20,603,10,608,10,9.00E-15,1.,1.,1.  $ IP TO OP
REM
REM RADIATION TO REST OF STB
REM
  -600,3136,920,2.4E-13,-601, 137,920,2.4E-13,-602,4137,920,2.4E-13
  -603,3137,920,2.4E-13,-604,5137,920,2.4E-13,-605, 138,920,2.4E-13
  -606,4138,920,2.4E-13,-607,3138,920,2.4E-13,-608,5138,920,2.4E-13
  -609, 139,920,2.4E-13,-610,4139,920,2.4E-13,-611,3139,920,2.4E-13
  -612,5139,920,2.4E-13,-613,3140,920,2.4E-13,-614,4140,920,2.4E-13
  -615,3152,920,2.4E-13,-616,4152,920,2.4E-13,-617, 153,920,2.4E-13
  -618,4153,920,2.4E-13,-619,3153,920,2.4E-13,-620,5153,920,2.4E-13
  -621, 154,920,2.4E-13,-622,4154,920,2.4E-13,-623,3154,920,2.4E-13
  -624,5154,920,2.4E-13,-625, 155,920,2.4E-13,-626,4155,920,2.4E-13
  -627,3155,920,2.4E-13,-628,5155,920,2.4E-13,-629,3156,920,2.4E-13
  -630,4156,920,2.4E-13
END
BCD 3CONSTANTS DATA
  5,6.9E-4,6,8.415E-4,7,7.27E-4,8,8.672E-4 $ AREA MULTIPLIERS
  OUTPUT,600.0
  45,45 $ K45 = NUMBER OF AIR CONDUCTORS
  80,1.11E-12,81,0.1406,82,0.,83,0.,84,0.,85,0.,86,0.,87,8
  50,0.,51,.01,52,.25,53,1.0,54,0.0 $ PCT HEATER POWER
  46,1.0E-20 $ K46= DUMMY AIR G'S
  99,0.01 $ SIDE SUN Q TO TP
  475,0.,476,0.,477,0.,478,0.,479,0.,480,0. $ ODD CONST.
  452,0.,453,0.,454,0. $ H'S SHADE TO AIR
  999,0.0 $ TIME(0) PROBLEM START TIME

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```

TIME0,6710700.0,TIMEND,6747300.0    $ PHASE 6
END
BCD 3ARRAY DATA
REM
REM DRIVER TEMPERATURES
REM
1000,SPACE,230,END    $ TIME
1036,SPACE,230,END
1037,SPACE,230,END
1038,SPACE,230,END
1039,SPACE,230,END
1040,SPACE,230,END
1052,SPACE,230,END
1053,SPACE,230,END
1054,SPACE,230,END
1055,SPACE,230,END
1056,SPACE,230,END
1107,SPACE,230,END
1108,SPACE,230,END
1109,SPACE,230,END
1110,SPACE,230,END
1111,SPACE,230,END
1168,SPACE,230,END
1169,SPACE,230,END
1170,SPACE,230,END
1171,SPACE,230,END
1172,SPACE,230,END
1140,SPACE,230,END
1156,SPACE,230,END
1136,SPACE,230,END
1152,SPACE,230,END
1522,SPACE,230,END
1523,SPACE,230,END
1533,SPACE,230,END
1604,SPACE,230,END
1614,SPACE,230,END
1624,SPACE,230,END
1634,SPACE,230,END
1950,SPACE,230,END    $ CABIN AIR TEMP ARRAY
2000,SPACE,230,END    $ INITIAL TEMPS ON PRESS SHELL
2500,SPACE,230,END    $ AVG HEATER TEMPS - RANKINE

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```

    2600,SPACE,230,END      $ AVG PS TEMP - RANKINE
REM
REM SPACE FOR OTHER ACTUAL TEMPS
REM
    1601,SPACE,230,END
    1602,SPACE,230,END
    1603,SPACE,230,END
    7138,SPACE,230,END
    7139,SPACE,230,END
    7153,SPACE,230,END
REM
REM OTHER ARRAYS
REM
    430,SPACE,8,END      $ PCT HTR Q TO NODES
    435,SPACE,8,END
    400,SPACE,45,END     $ T(PS)-T(AIR) TEMPS
    401,SPACE,10,END     $ AX FOR AIR H
    402,SPACE,10,END     $ AY FOR H VALUES
    403,SPACE,45,END     $ Z MULTIPLIERS
    404,SPACE,10,END     $ MIN FLOW H'S
    405,SPACE,10,END     $ MAX FLOW H'S
REM
REM CONDUCTANCES FOR MS THRU MLI TO PS
REM
    9,-63.5,-29.5,10.0,61.0,103.5,160.0,END
    107,0.00765,0.00820,0.00943,0.01075,0.01209,0.01409,END
    108,0.00822,0.00942,0.01076,0.01218,0.01365,0.01547,END
    109,0.00985,0.01049,0.01191,0.01342,0.01498,0.01720,END
    110,0.01078,0.01145,0.01294,0.01451,0.01613,0.01842,END
END
BCD 3EXECUTION
F DIMENSION X(1000)
F NDIM=1000
F NTH=0
F KTEST=0
F JTEST=0
REM
REM ITPSUN= 1-TOP SUN OFF, 2-TOP SUN ON
REM
F ITPSUN=1
F IF (ITPSUN .EQ. 1) GO TO 226

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```

        ARYMPY(31,G600,0.4,G600)  $  TOP SUN ONLY PHASE
F 226 CONTINUE
        STFSEP(TIME0,TTEST)
        STFSEP(TIME0,K999)  $  STORES START TIME
REM
REM GET DRIVER TEMPS FROM TAPE
REM
REM
REM
        FMDTR(6,122)
REM
REM
REM
REM LOAD PERCENT HEATER Q'S
REM
        BLDARY(A430+1,.164,.125,.299,.230,.053,.041,.390,.326)
REM
REM LOAD FILM COEFFICIENTS
REM
        BLDARY(A401+1,0.,10.,20.,30.,40.,50.,60.,70.,80.,90.)
        BLDARY(A402+1,.3,.35,.4,.45,.5,.55,.6,.65,.75,.90)
        BLDARY(A404+1,1.8,1.9,2.0,2.1,2.2,2.3,2.4,2.5,2.6,2.7)
        BLDARY(A405+1,2.5,2.6,2.7,2.8,2.9,3.0,3.1,3.2,3.3,3.4)
REM
REM LOAD EFFECTIVE FILM AREAS
REM
        STFSQS(3.0,5,A403+1)
        STFSQS(2.0,4,A403+6)
        STFSQS(3.0,23,A403+10)
        STFSEP(1.0,A403+33)
        STFSQS(0.2,8,A403+34)
REM
REM SCALE FILM AREAS
REM
        ARYMPY(K45,A403+1,2.7E-4,A403+1)
REM
REM LOAD INITIAL TEMPS
REM
        SHFTV(53,A2000+1,T3136)
        CNFRWD
END

```

BCD 3VARIABLES 1

REM

REM COMPUTE DRIVER TEMPS

REM

D1D1DA(TIMEN,A1000,A2600,T920) \$ RAD. SINK DRIVER - WHOLE STB
SUB(T920,460.0,T920) \$ RAD. SINK DRIVER - WHOLE STB

D1D1DA(TIMEN,A1000,A1036,T36)

D1D1DA(TIMEN,A1000,A1037,T37)

D1D1DA(TIMEN,A1000,A1038,T38)

D1D1DA(TIMEN,A1000,A1039,T39)

D1D1DA(TIMEN,A1000,A1040,T40)

D1D1DA(TIMEN,A1000,A1052,T52)

D1D1DA(TIMEN,A1000,A1053,T53)

D1D1DA(TIMEN,A1000,A1054,T54)

D1D1DA(TIMEN,A1000,A1055,T55)

D1D1DA(TIMEN,A1000,A1056,T56)

D1D1DA(TIMEN,A1000,A1107,T107)

D1D1DA(TIMEN,A1000,A1108,T108)

D1D1DA(TIMEN,A1000,A1109,T109)

D1D1DA(TIMEN,A1000,A1110,T110)

D1D1DA(TIMEN,A1000,A1111,T111)

D1D1DA(TIMEN,A1000,A1168,T168)

D1D1DA(TIMEN,A1000,A1169,T169)

D1D1DA(TIMEN,A1000,A1170,T170)

D1D1DA(TIMEN,A1000,A1171,T171)

D1D1DA(TIMEN,A1000,A1172,T172)

D1D1DA(TIMEN,A1000,A1140,T140)

D1D1DA(TIMEN,A1000,A1156,T156)

D1D1DA(TIMEN,A1000,A1136,T136)

D1D1DA(TIMEN,A1000,A1152,T152)

D1D1DA(TIMEN,A1000,A1522,T522)

D1D1DA(TIMEN,A1000,A1523,T523)

D1D1DA(TIMEN,A1000,A1533,T533)

D1D1DA(TIMEN,A1000,A1604,T604)

D1D1DA(TIMEN,A1000,A1614,T614)

D1D1DA(TIMEN,A1000,A1624,T624)

D1D1DA(TIMEN,A1000,A1634,T634)

REM

REM INTERPOLATIONS TO DETERMINE CONDUCTANCES FROM

REM MS TO PS THRU MLI

REM

```

D1M1MD(T36,T3136,A9,A109,K7,G501)
D1M1MD(T37,T137,A9,A107,K6,G502)
D1M1MD(T37,T4137,A9,A107,K6,G503)
D1M1MD(T37,T3137,A9,A107,K6,G504)
D1M1MD(T37,T5137,A9,A107,K6,G505)
D1M1MD(T38,T3138,A9,A108,K5,G506)
D1M1MD(T38,T5138,A9,A108,K5,G507)
D1M1MD(T38,T138,A9,A108,K5,G508)
D1M1MD(T38,T4138,A9,A108,K5,G509)
D1M1MD(T39,T139,A9,A107,K6,G510)
D1M1MD(T39,T4139,A9,A107,K6,G511)
D1M1MD(T39,T3139,A9,A107,K6,G512)
D1M1MD(T39,T5139,A9,A107,K6,G513)
D1M1MD(T40,T3140,A9,A107,K6,G514)
D1M1MD(T40,T4140,A9,A107,K6,G515)
D1M1MD(T52,T3152,A9,A110,K8,G516)
D1M1MD(T52,T4152,A9,A110,K8,G517)
D1M1MD(T53,T153,A9,A107,K8,G518)
D1M1MD(T53,T4153,A9,A107,K8,G519)
D1M1MD(T53,T3153,A9,A107,K8,G520)
D1M1MD(T53,T5153,A9,A107,K8,G521)
D1M1MD(T54,T154,A9,A107,K8,G522)
D1M1MD(T54,T4154,A9,A107,K8,G523)
D1M1MD(T54,T3154,A9,A107,K8,G524)
D1M1MD(T54,T5154,A9,A107,K8,G525)
D1M1MD(T55,T155,A9,A107,K8,G526)
D1M1MD(T55,T4155,A9,A107,K8,G527)
D1M1MD(T55,T3155,A9,A107,K8,G528)
D1M1MD(T55,T5155,A9,A107,K8,G529)
D1M1MD(T56,T3156,A9,A107,K8,G530)
D1M1MD(T56,T4156,A9,A107,K8,G531)

```

REM

REM ESTABLISH PHASE CONDITIONS

REM

```

F    IAMPS=1
F    ISHAD=1
F    IPANE=1
F    ISUN=1
F    IFLOW=1
F    ITPSUN=1
    REM

```

```

        REM ISUN= 1-SIDE SUN OFF, 2-SIDE SUN ON, 3-SUN ON + ROTATING
        REM
F      GO TO (420,430,440),ISUN
F 440 CONTINUE
        SUB(TIMEN,TTEST,K476)
F      IF ((ISW .NE. 1) .AND. (ISW .NE. 2)) ISW=1
F 443 GO TO (441,442),ISW
F 441 CONTINUE
        DIVIDE(K476,1800.0,RTEST)
F      ISW=1
F      INRT=AIN(TTEST)
F      RTEST=RTEST - AINT(RTEST)
F      IF (INRT .LE. 0) GO TO 448
F      ISW=2
F      TTEST=TTEST+240*INRT
F 448 RTEST=RTEST*6.28
        CINCOS(RTEST,STEST)
F      IF (STEST .GT. 0.0) GO TO 445
F      GO TO 420
F 442 CONTINUE
        DIVIDE(K476,240.0,RTEST)
F      ISW=2
F      INRT=AIN(TTEST)
F      RTEST=RTEST - AINT(RTEST)
F      IF (INRT .LE. 0) GO TO 448
F      ISW=1
F      TTEST=TTEST+1800*INRT
F      GO TO 448
F 445 CONTINUE
        MLTPLY(STEST,K99,RTEST)
        STFSEP(RTEST,Q605,Q615,Q625,Q635)
F      RTEST=RTEST*0.1
        STFSEP(RTEST,Q975)
F      GO TO 420
F 430 CONTINUE
        STFSEP(K99,Q605,Q615,Q625,Q635)      $ APPLIES Q TO WINDOW
        MLTPLY(K99,0.1,Q975)
F 420 CONTINUE
        STFSEP(Q975,Q608,Q618,Q628,Q638,Q603,Q613,Q623,Q633)
        REM
        REM ISHAD= 1-CLOSED, 2-OPEN

```

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      REM
F      GO TO (182,183), ISHAD
F 182 CONTINUE
      STFSQS(0.0,4,A403+42)
      STFSEP(0.6,K452)    $ AVG SHADE TO AIR H
      STFSEP(3.0,K453)
      STFSEP(4.1,K454)
      ARYMPY(3,K452,2.7E-4,K452)    $ SHADE H
F      GO TO 184
F 183 CONTINUE
      STFSEP(0.0,Q975)
      STFSQS(0.0,3,K452)    $ ZEROES SHADE WHEN OPEN
      STFSQS(0.2,4,A403+42)    $ ONLY FOR SHADE OPEN
      ARYMPY(4,A403+42,2.7E-4,A403+42)
F 184 CONTINUE
      REM
      REM IPANE= 1-CLOSED, 2-OPEN
      REM
F      GO TO (191,192), IPANE
F 192 CONTINUE
      STFSEP(3.6E-14,G921,G922,G923,G924)
      SHFTV(4,Q605,Q608)
      ARYMPY(4,Q608,0.2,Q608)
F      GO TO 193
F 191 CONTINUE
      STFSEP(K46,G921,G922,G923,G924)
F 193 CONTINUE
      REM
      REM IFLOW= 1-NO AIR, 2-FREE AIR, 3-MIN FLOW, 4-MAX FLOW
      REM
      DID1DA(TIMEN,A1000,A1950,T950)
      ARYSUB(K45,T3136,T950,A400+1)
      ARYPLS(K45,A400+1)
      SUB(T975,T950,K475)
      SETPLS(K475)
F      GO TO (400,402,404,405), IFLOW
F 400 CONTINUE
      STFSQS(K46,K45,G400)
      STFSEP(K46,G445)
F      GO TO 406
F 402 CONTINUE

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        D11MDI(K45,A400+1,A401,A402,A403+1,G400)  $ CONVECTION H'S
        STFSEP(K452,G445)
F      GO TO 406
F 404 CONTINUE
        D11MDI(K45,A400+1,A401,A404,A403+1,G400)
        STFSEP(K453,G445)
F      GO TO 406
F 405 CONTINUE
        D11MDI(K45,A400+1,A401,A405,A403+1,G400)
        STFSEP(K454,G445)
F 406 CONTINUE
        REM
        REM IAMPS= 1-OFF, 2-10PCT, 3-50PCT, 4-100PCT
        REM
F      IF (IAMPS .EQ. 1) GO TO 450
F      ITEST=IAMPS
        ARYSTO(ITEST,K54,K50)
        D1D1DA(TIMEN,A1000,A2500,K82)
        D1D1DA(TIMEN,A1000,A2600,K83)
        MLTPY(K82,K82,K82,K82,K84)
        MLTPY(K83,K83,K83,K83,K85)
        SUB(K84,K85,K86)
        STFSEP(K86,RTEST)
        MLTPY(K86,K80,K82)
        MLTPY(K54,K81,K83)
F      IF (RTEST .LE. 0.0) GO TO 451
        SUB(K83,K82,K84)
F      GO TO 452
F 451 CONTINUE
        STFSEP(K83,K84)
F 452 CONTINUE
        ARYMPY(K87,A430+1,K84,A435+1)
        BRKARY(A435+1,Q3137,Q153,Q5137,Q4153,Q3138,Q154,Q4140,Q3156)
F 450 CONTINUE
        REM
        REM ITPSUN= 1-TOP SUN OFF, 2-TOP SUN ON
        REM
F      IF (ITPSUN .EQ. 1) GO TO 139
        STFSEP(T108,T920)  $ RAD. SINK DRIVER - TOP SUN ONLY - PH.11
F 139 CONTINUE
        END

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BCD 3VARIABLES 2
END
BCD 3OUTPUT CALLS
PRNTMP
END
BCD 3END OF DATA

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3136	2.234+00	6.469+02	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 137	LIN 100	2.800-04	14	PRESSURE SHELL - SIDEWALL
BOUN 136	LIN 218	2.150-04	14	PRESSURE SHELL - SIDEWALL DRIVER
BOUN 107	LIN 219	3.172-04	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
DIFF 521	LIN 227	2.520-03	17	CYLINDRICAL INNER DOCKING HATCH
BOUN 36	LIN 501	7.161-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 400	1.000-20		CABIN AIR
BOUN 920	RAD 600	2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
137	1.840+00	2.314+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3136	LIN 100	2.800-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4137	LIN 101	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3137	LIN 130	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 108	LIN 201	8.470-05	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
BOUN 37	LIN 502	6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 401	1.000-20		CABIN AIR
BOUN 920	RAD 601	2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
4137	1.840+00	2.517+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 137	LIN 101	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 138	LIN 102	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5137	LIN 133	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 108	LIN 202	8.470-05	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
BOUN 37	LIN 503	6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 402	1.000-20		CABIN AIR
BOUN 920	RAD 602	2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3137	1.840+00	6.041+02	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 5137	LIN 107	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 153	LIN 129	9.440-05	14	PRESSURE SHELL - SIDEWALL
DIFF 137	LIN 130	9.440-05	14	PRESSURE SHELL - SIDEWALL

*** CONTINUATION

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3137	1.840+00	6.041+02	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 521	LIN 226	2.520-03	17	CYLINDRICAL INNER DOCKING HATCH
BOUN 37	LIN 504	6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 403	1.000-20		CABIN AIR
BOUN 920	RAD 603	2.400-13		REMAINING 3/4 STB
5137	1.840+00	2.484+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3137	LIN 107	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3138	LIN 108	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4153	LIN 132	9.440-05	14	PRESSURE SHELL - SIDEWALL
DIFF 4137	LIN 133	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 37	LIN 505	6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 404	1.000-20		CABIN AIR
BOUN 920	RAD 604	2.400-13		REMAINING 3/4 STB
138	1.302+00	1.145+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 4137	LIN 102	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4138	LIN 103	1.250-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3138	LIN 136	5.260-05	14	PRESSURE SHELL - SIDEWALL
BOUN 109	LIN 203	2.250-04	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
BOUN 38	LIN 508	5.974-06	15	METEOROID SHIELD DRIVER
DIFF 631	LIN 371	3.990-04	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 405	1.000-20		CABIN AIR
BOUN 920	RAD 605	2.400-13		REMAINING 3/4 STB
4138	1.302+00	1.147+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 138	LIN 103	1.250-04	14	PRESSURE SHELL - SIDEWALL
DIFF 139	LIN 104	2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5138	LIN 139	5.260-05	14	PRESSURE SHELL - SIDEWALL
BOUN 109	LIN 204	2.250-04	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
BOUN 38	LIN 509	5.974-06	15	METEOROID SHIELD DRIVER

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
4138	1.302+00	1.147+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 601	LIN 311	3.990-04	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 406	1.000-20		CABIN AIR
BOUN 920	RAD 606	2.400-13		REMAINING 3/4 STB
3138	1.302+00	1.280+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 5137	LIN 108	2.150-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5138	LIN 109	1.250-04	14	PRESSURE SHELL - SIDEWALL
DIFF 154	LIN 135	1.050-04	14	PRESSURE SHELL - SIDEWALL
DIFF 138	LIN 136	5.260-05	14	PRESSURE SHELL - SIDEWALL
BOUN 38	LIN 506	5.974-06	15	METEOROID SHIELD DRIVER
DIFF 621	LIN 351	3.990-04	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 407	1.000-20		CABIN AIR
BOUN 920	RAD 607	2.400-13		REMAINING 3/4 STB
5138	1.302+00	1.282+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3138	LIN 109	1.250-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3139	LIN 110	2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4154	LIN 138	1.050-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4138	LIN 139	5.260-05	14	PRESSURE SHELL - SIDEWALL
BOUN 38	LIN 507	5.974-06	15	METEOROID SHIELD DRIVER
DIFF 611	LIN 331	3.990-04	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 408	1.000-20		CABIN AIR
BOUN 920	RAD 608	2.400-13		REMAINING 3/4 STB
139	1.690+00	2.194+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 4138	LIN 104	2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4139	LIN 105	2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3139	LIN 142	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 110	LIN 205	1.078-04	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
BOUN 39	LIN 510	6.437-06	15	METEOROID SHIELD DRIVER

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
139	1.690+00	2.194+03	14	PRESSURE SHELL - SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
BOUN 950 LIN 409		1.000-20		CABIN AIR
BOUN 920 RAD 609		2.400-13		REMAINING 3/4 STB
4139	1.690+00	2.312+03	14	PRESSURE SHELL - SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 139 LIN 105		2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3140 LIN 106		1.730-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5139 LIN 145		1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 110 LIN 206		1.078-04	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
BOUN 39 LIN 511		6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950 LIN 410		1.000-20		CABIN AIR
BOUN 920 RAD 610		2.400-13		REMAINING 3/4 STB
3139	1.690+00	2.169+03	14	PRESSURE SHELL - SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 5138 LIN 110		2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5139 LIN 111		2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 155 LIN 141		1.160-04	14	PRESSURE SHELL - SIDEWALL
DIFF 139 LIN 142		1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 39 LIN 512		6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950 LIN 411		1.000-20		CABIN AIR
BOUN 920 RAD 611		2.400-13		REMAINING 3/4 STB
5139	1.690+00	2.286+03	14	PRESSURE SHELL - SIDEWALL
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 3139 LIN 111		2.130-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4140 LIN 112		1.730-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4155 LIN 144		1.160-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4139 LIN 145		1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 39 LIN 513		6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950 LIN 412		1.000-20		CABIN AIR
BOUN 920 RAD 612		2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3140	1.457+00	2.109+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 4139	LIN 106	1.730-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4140	LIN 148	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 111	LIN 220	1.077-04	14	PRESSURE SHELL - TOP BULKHEAD DRIVER
BOUN 140	LIN 221	1.730-04	14	PRESSURE SHELL - SIDEWALL DRIVER
BOUN 40	LIN 514	6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 413	1.000-20		CABIN AIR
BOUN 920	RAD 613	2.400-13		REMAINING 3/4 STB
4140	1.457+00	2.086+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 5139	LIN 112	1.730-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3156	LIN 147	1.160-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3140	LIN 148	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 140	LIN 222	1.730-04	14	PRESSURE SHELL - SIDEWALL DRIVER
BOUN 40	LIN 515	6.437-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 414	1.000-20		CABIN AIR
BOUN 920	RAD 614	2.400-13		REMAINING 3/4 STB
3152	3.339+00	1.124+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 153	LIN 113	1.230-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4152	LIN 127	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 152	LIN 216	1.077-04	14	PRESSURE SHELL - SIDEWALL DRIVER
DIFF 521	LIN 225	2.520-03	17	CYLINDRICAL INNER DOCKING HATCH
BOUN 52	LIN 516	9.348-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 415	1.000-20		CABIN AIR
BOUN 920	RAD 615	2.400-13		REMAINING 3/4 STB
4152	3.339+00	5.819+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3153	LIN 120	1.630-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3152	LIN 127	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 168	LIN 214	8.470-05	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
4152	3.339+00	5.819+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 152	LIN 215	1.077-04	14	PRESSURE SHELL - SIDEWALL DRIVER
BOUN 52	LIN 517	9.348-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 416	1.000-20		CABIN AIR
BOUN 920	RAD 616	2.400-13		REMAINING 3/4 STB
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
153	2.144+00	3.716+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3152	LIN 113	1.230-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4153	LIN 114	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3153	LIN 128	9.440-05	14	PRESSURE SHELL - SIDEWALL
DIFF 3137	LIN 129	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 53	LIN 518	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 417	1.000-20		CABIN AIR
BOUN 920	RAD 617	2.400-13		REMAINING 3/4 STB
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
4153	2.144+00	3.596+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 153	LIN 114	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 154	LIN 115	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5153	LIN 131	9.440-05	14	PRESSURE SHELL - SIDEWALL
DIFF 5137	LIN 132	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 53	LIN 519	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 418	1.000-20		CABIN AIR
BOUN 920	RAD 618	2.400-13		REMAINING 3/4 STB
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3153	2.144+00	3.531+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 4152	LIN 120	1.630-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5153	LIN 121	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 153	LIN 128	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 169	LIN 207	8.470-05	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER
BOUN 53	LIN 520	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 419	1.000-20		CABIN AIR

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3153	2.144+00	3.531+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 920	RAD 619	2.400-13		REMAINING 3/4 STB
5153	2.144+00	3.787+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3153	LIN 121	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3154	LIN 122	1.220-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4153	LIN 131	9.440-05	14	PRESSURE SHELL - SIDEWALL
BOUN 169	LIN 208	8.470-05	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER
BOUN 53	LIN 521	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 420	1.000-20		CABIN AIR
BOUN 920	RAD 620	2.400-13		REMAINING 3/4 STB
154	2.219+00	3.594+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 4153	LIN 115	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4154	LIN 116	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3154	LIN 134	1.050-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3138	LIN 135	1.050-04	14	PRESSURE SHELL - SIDEWALL
BOUN 54	LIN 522	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 421	1.000-20		CABIN AIR
BOUN 920	RAD 621	2.400-13		REMAINING 3/4 STB
4154	2.219+00	3.526+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 154	LIN 116	1.430-04	14	PRESSURE SHELL - SIDEWALL
DIFF 155	LIN 117	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5154	LIN 137	1.050-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5138	LIN 138	1.050-04	14	PRESSURE SHELL - SIDEWALL
BOUN 54	LIN 523	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 422	1.000-20		CABIN AIR
BOUN 920	RAD 622	2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3154	2.219+00	3.991+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 5153	LIN 122	1.220-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5154	LIN 123	1.230-04	14	PRESSURE SHELL - SIDEWALL
DIFF 154	LIN 134	1.050-04	14	PRESSURE SHELL - SIDEWALL
BOUN 170	LIN 209	8.470-05	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER
BOUN 54	LIN 524	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 423	1.000-20		CABIN AIR
BOUN 920	RAD 623	2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
5154	2.219+00	3.772+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3154	LIN 123	1.230-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3155	LIN 124	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4154	LIN 137	1.050-04	14	PRESSURE SHELL - SIDEWALL
BOUN 170	LIN 210	8.470-05	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER
BOUN 54	LIN 525	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 424	1.000-20		CABIN AIR
BOUN 920	RAD 624	2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
155	2.144+00	3.232+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 4154	LIN 117	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4155	LIN 118	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3155	LIN 140	1.160-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3139	LIN 141	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 55	LIN 526	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 425	1.000-20		CABIN AIR
BOUN 920	RAD 625	2.400-13		REMAINING 3/4 STB

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
4155	2.144+00	3.153+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 155	LIN 118	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3156	LIN 119	1.710-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5155	LIN 143	1.160-04	14	PRESSURE SHELL - SIDEWALL

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NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
4155	2.144+00	3.153+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 5139	LIN 144	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 55	LIN 527	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 426	1.000-20		CABIN AIR
BOUN 920	RAD 626	2.400-13		REMAINING 3/4 STB
3155	2.144+00	3.276+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 5154	LIN 124	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 5155	LIN 125	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 155	LIN 140	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 171	LIN 211	1.078-04	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER
BOUN 55	LIN 528	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 427	1.000-20		CABIN AIR
BOUN 920	RAD 627	2.400-13		REMAINING 3/4 STB
5155	2.144+00	3.198+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3155	LIN 125	1.550-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4156	LIN 126	1.710-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4155	LIN 143	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 171	LIN 212	1.078-04	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER
BOUN 55	LIN 529	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 428	1.000-20		CABIN AIR
BOUN 920	RAD 628	2.400-13		REMAINING 3/4 STB
3156	2.144+00	3.083+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 4155	LIN 119	1.710-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4156	LIN 146	1.160-04	14	PRESSURE SHELL - SIDEWALL
DIFF 4140	LIN 147	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 156	LIN 223	1.710-04	14	PRESSURE SHELL - SIDEWALL DRIVER
BOUN 56	LIN 530	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 429	1.000-20		CABIN AIR

*** CONTINUATION

PAGE 10

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
3156	2.144+00	3.083+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 920	RAD 629	2.400-13		REMAINING 3/4 STB
4156	2.144+00	3.124+03	14	PRESSURE SHELL - SIDEWALL
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 5155	LIN 126	1.710-04	14	PRESSURE SHELL - SIDEWALL
DIFF 3156	LIN 146	1.160-04	14	PRESSURE SHELL - SIDEWALL
BOUN 172	LIN 213	1.078-04	14	PRESSURE SHELL - BOTTOM BULKHEAD DRIVER
BOUN 156	LIN 224	1.710-04	14	PRESSURE SHELL - SIDEWALL DRIVER
BOUN 56	LIN 531	6.634-06	15	METEOROID SHIELD DRIVER
BOUN 950	LIN 430	1.000-20		CABIN AIR
BOUN 920	RAD 630	2.400-13		REMAINING 3/4 STB
1522	1.093+01	1.716+03	17	DOCKING HATCH CLOSURE PLATE
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 522	LIN 217	2.560-03	17	DOCKING HATCH CLOSURE PLATE DRIVER
DIFF 521	LIN 228	3.750-03	17	CYLINDRICAL INNER DOCKING HATCH
BOUN 950	LIN 431	1.000-20		CABIN AIR
BOUN 523	RAD 701	7.600-14	17	CYLINDRICAL OUTER DOCKING HATCH DRIVER
BOUN 533	RAD 702	9.200-14	17	DOCKING HATCH COVER DRIVER
521	3.395+00	2.487+02	17	CYLINDRICAL INNER DOCKING HATCH
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 3152	LIN 225	2.520-03	14	PRESSURE SHELL - SIDEWALL
DIFF 3137	LIN 226	2.520-03	14	PRESSURE SHELL - SIDEWALL
DIFF 3136	LIN 227	2.520-03	14	PRESSURE SHELL - SIDEWALL
DIFF 1522	LIN 228	3.750-03	17	DOCKING HATCH CLOSURE PLATE
BOUN 523	LIN 229	2.280-03	17	CYLINDRICAL OUTER DOCKING HATCH DRIVER
BOUN 950	LIN 432	1.000-20		CABIN AIR
BOUN 522	RAD 700	8.700-14	17	DOCKING HATCH CLOSURE PLATE DRIVER
BOUN 533	RAD 703	7.600-14	17	DOCKING HATCH COVER DRIVER

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
601	6.220-01	5.841+02	16	WINDOW - FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 602	LIN 308	5.750-04	16	WINDOW - FRAME
BOUN 38	LIN 309	1.500-06	15	METEOROID SHIELD DRIVER
DIFF 4138	LIN 311	3.990-04	14	PRESSURE SHELL - SIDEWALL
DIFF 611	LIN 316	4.420-05	16	WINDOW - FRAME ADAPTER
DIFF 631	LIN 376	4.420-05	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 433	1.000-20		CABIN AIR
ARTH 975	LIN 885	1.000-06	16	WINDOW SHADE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
611	6.220-01	5.841+02	16	WINDOW - FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 612	LIN 328	5.750-04	16	WINDOW - FRAME
BOUN 38	LIN 329	1.500-06	15	METEOROID SHIELD DRIVER
DIFF 5138	LIN 331	3.990-04	14	PRESSURE SHELL - SIDEWALL
DIFF 601	LIN 316	4.420-05	16	WINDOW - FRAME ADAPTER
DIFF 621	LIN 336	4.420-05	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 434	1.000-20		CABIN AIR
ARTH 975	LIN 886	1.000-06	16	WINDOW SHADE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
621	6.220-01	5.841+02	16	WINDOW - FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 622	LIN 348	5.750-04	16	WINDOW - FRAME
BOUN 38	LIN 349	1.500-06	15	METEOROID SHIELD DRIVER
DIFF 3138	LIN 351	3.990-04	14	PRESSURE SHELL - SIDEWALL
DIFF 611	LIN 336	4.420-05	16	WINDOW - FRAME ADAPTER
DIFF 631	LIN 356	4.420-05	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 435	1.000-20		CABIN AIR
ARTH 975	LIN 887	1.000-06	16	WINDOW SHADE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
631	6.220-01	5.841+02	16	WINDOW - FRAME ADAPTER
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 632	LIN 368	5.750-04	16	WINDOW - FRAME
BOUN 38	LIN 369	1.500-06	15	METEOROID SHIELD DRIVER
DIFF 138	LIN 371	3.990-04	14	PRESSURE SHELL - SIDEWALL

*** CONTINUATION

PAGE 12

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
631	6.220-01	5.841+02	16	WINDOW - FRAME ADAPTER
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 621	LIN 356	4.420-05	16	WINDOW - FRAME ADAPTER
DIFF 601	LIN 376	4.420-05	16	WINDOW - FRAME ADAPTER
BOUN 950	LIN 436	1.000-20		CABIN AIR
ARTH 975	LIN 888	1.000-06	16	WINDOW SHADE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
602	9.580-01	1.163+03	16	WINDOW - FRAME
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 604	LIN 303	1.440-06	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 603	LIN 306	7.850-05	16	WINDOW - INNER PRESSURE PANE
DIFF 608	LIN 307	7.850-05	16	WINDOW - OUTER PRESSURE PANE
DIFF 601	LIN 308	5.750-04	16	WINDOW - FRAME ADAPTER
BOUN 38	LIN 310	1.900-06	15	METEOROID SHIELD DRIVER
DIFF 612	LIN 315	4.420-05	16	WINDOW - FRAME
DIFF 632	LIN 375	4.420-05	16	WINDOW - FRAME
BOUN 950	LIN 437	1.000-20		CABIN AIR
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
612	9.580-01	1.163+03	16	WINDOW - FRAME
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 614	LIN 323	1.440-06	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 613	LIN 326	7.850-05	16	WINDOW - INNER PRESSURE PANE
DIFF 618	LIN 327	7.850-05	16	WINDOW - OUTER PRESSURE PANE
DIFF 611	LIN 328	5.750-04	16	WINDOW - FRAME ADAPTER
BOUN 38	LIN 330	1.900-06	15	METEOROID SHIELD DRIVER
DIFF 602	LIN 315	4.420-05	16	WINDOW - FRAME
DIFF 622	LIN 335	4.420-05	16	WINDOW - FRAME
BOUN 950	LIN 438	1.000-20		CABIN AIR
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
622	9.580-01	1.163+03	16	WINDOW - FRAME
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 624	LIN 343	1.440-06	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 623	LIN 346	7.850-05	16	WINDOW - INNER PRESSURE PANE
DIFF 628	LIN 347	7.850-05	16	WINDOW - OUTER PRESSURE PANE
DIFF 621	LIN 348	5.750-04	16	WINDOW - FRAME ADAPTER

*** CONTINUATION

PAGE 13

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
622	9.580-01	1.163+03	16	WINDOW - FRAME
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 38	LIN 350	1.900-06	15	METEOROID SHIELD DRIVER
DIFF 612	LIN 335	4.420-05	16	WINDOW - FRAME
DIFF 632	LIN 355	4.420-05	16	WINDOW - FRAME
BOUN 950	LIN 439	1.000-20		CABIN AIR
632	9.580-01	1.163+03	16	WINDOW - FRAME
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
BOUN 634	LIN 363	1.440-06	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 633	LIN 366	7.850-05	16	WINDOW - INNER PRESSURE PANE
DIFF 638	LIN 367	7.850-05	16	WINDOW - OUTER PRESSURE PANE
DIFF 631	LIN 368	5.750-04	16	WINDOW - FRAME ADAPTER
BOUN 38	LIN 370	1.900-06	15	METEOROID SHIELD DRIVER
DIFF 622	LIN 355	4.420-05	16	WINDOW - FRAME
DIFF 602	LIN 375	4.420-05	16	WINDOW - FRAME
BOUN 950	LIN 440	1.000-20		CABIN AIR
603	2.050-01	2.051+03	16	WINDOW - INNER PRESSURE PANE
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 602	LIN 306	7.850-05	16	WINDOW - FRAME
DIFF 613	LIN 314	7.670-06	16	WINDOW - INNER PRESSURE PANE
DIFF 633	LIN 374	7.670-06	16	WINDOW - INNER PRESSURE PANE
BOUN 950	LIN 441	1.000-20		CABIN AIR
ARTH 975	RAD 875	3.590-15	16	WINDOW SHADE
DIFF 608	RAD 305	9.000-15	16	WINDOW - OUTER PRESSURE PANE
613	2.050-01	2.048+03	16	WINDOW - INNER PRESSURE PANE
TO NODE	THRU CONDUCTOR	CONDUCTANCE		
DIFF 612	LIN 326	7.850-05	16	WINDOW - FRAME
DIFF 603	LIN 314	7.670-06	16	WINDOW - INNER PRESSURE PANE
DIFF 623	LIN 334	7.670-06	16	WINDOW - INNER PRESSURE PANE
BOUN 950	LIN 442	1.000-20		CABIN AIR
ARTH 975	RAD 876	3.590-15	16	WINDOW SHADE
DIFF 618	RAD 325	9.000-15	16	WINDOW - OUTER PRESSURE PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
623	2.050-01	2.048+03	16	WINDOW - INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 622	LIN	346	7.850-05	16 WINDOW - FRAME
DIFF 613	LIN	334	7.670-06	16 WINDOW - INNER PRESSURE PANE
DIFF 633	LIN	354	7.670-06	16 WINDOW - INNER PRESSURE PANE
BOUN 950	LIN	443	1.000-20	CABIN AIR
ARTH 975	RAD	877	3.590-15	16 WINDOW SHADE
DIFF 628	RAD	345	9.000-15	16 WINDOW - OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
633	2.050-01	2.049+03	16	WINDOW - INNER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 632	LIN	366	7.850-05	16 WINDOW - FRAME
DIFF 623	LIN	354	7.670-06	16 WINDOW - INNER PRESSURE PANE
DIFF 603	LIN	374	7.670-06	16 WINDOW - INNER PRESSURE PANE
BOUN 950	LIN	444	1.000-20	CABIN AIR
ARTH 975	RAD	878	3.590-15	16 WINDOW SHADE
DIFF 638	RAD	365	9.000-15	16 WINDOW - OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
605	2.020-01	4.335+03	16	WINDOW - THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
BOUN 604	LIN	301	3.200-05	16 WINDOW - THERMAL PANE FRAME DRIVER
DIFF 615	LIN	312	6.140-06	16 WINDOW - THERMAL PANE
DIFF 635	LIN	372	6.140-06	16 WINDOW - THERMAL PANE
BOUN 900	RAD	300	1.650-14	DEEP SPACE
DIFF 608	RAD	304	2.030-15	16 WINDOW - OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
615	2.020-01	4.325+03	16	WINDOW - THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
BOUN 614	LIN	321	3.200-05	16 WINDOW - THERMAL PANE FRAME DRIVER
DIFF 605	LIN	312	6.140-06	16 WINDOW - THERMAL PANE
DIFF 625	LIN	332	6.140-06	16 WINDOW - THERMAL PANE
BOUN 900	RAD	320	1.650-14	DEEP SPACE
DIFF 618	RAD	324	2.030-15	16 WINDOW - OUTER PRESSURE PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
625	2.020-01	4.265+03	16	WINDOW - THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
BOUN 624	LIN 341	3.200-05	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 615	LIN 332	6.140-06	16	WINDOW - THERMAL PANE
DIFF 635	LIN 352	6.140-06	16	WINDOW - THERMAL PANE
BOUN 900	RAD 340	1.650-14		DEEP SPACE
DIFF 628	RAD 344	2.030-15	16	WINDOW - OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
635	2.020-01	4.284+03	16	WINDOW - THERMAL PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
BOUN 634	LIN 361	3.200-05	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 625	LIN 352	6.140-06	16	WINDOW - THERMAL PANE
DIFF 605	LIN 372	6.140-06	16	WINDOW - THERMAL PANE
BOUN 900	RAD 360	1.650-14		DEEP SPACE
DIFF 638	RAD 364	2.030-15	16	WINDOW - OUTER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
608	2.050-01	2.047+03	16	WINDOW - OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 602	LIN 307	7.850-05	16	WINDOW - FRAME
DIFF 618	LIN 313	7.670-06	16	WINDOW - OUTER PRESSURE PANE
DIFF 638	LIN 373	7.670-06	16	WINDOW - OUTER PRESSURE PANE
BOUN 900	RAD 921	1.000-20		DEEP SPACE
BOUN 604	RAD 302	3.570-15	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 605	RAD 304	2.030-15	16	WINDOW - THERMAL PANE
DIFF 603	RAD 305	9.000-15	16	WINDOW - INNER PRESSURE PANE
NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
618	2.050-01	2.043+03	16	WINDOW - OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 612	LIN 327	7.850-05	16	WINDOW - FRAME
DIFF 608	LIN 313	7.670-06	16	WINDOW - OUTER PRESSURE PANE
DIFF 628	LIN 333	7.670-06	16	WINDOW - OUTER PRESSURE PANE
BOUN 900	RAD 922	1.000-20		DEEP SPACE
BOUN 614	RAD 322	3.570-15	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 615	RAD 324	2.030-15	16	WINDOW - THERMAL PANE
DIFF 613	RAD 325	9.000-15	16	WINDOW - INNER PRESSURE PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
628	2.050-01	2.036+03	16	WINDOW - OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 622	LIN 347	7.850-05	16	WINDOW - FRAME
DIFF 618	LIN 333	7.670-06	16	WINDOW - OUTER PRESSURE PANE
DIFF 638	LIN 353	7.670-06	16	WINDOW - OUTER PRESSURE PANE
BOUN 900	RAD 923	1.000-20		DEEP SPACE
BOUN 624	RAD 342	3.570-15	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 625	RAD 344	2.030-15	16	WINDOW - THERMAL PANE
DIFF 623	RAD 345	9.000-15	16	WINDOW - INNER PRESSURE PANE

NODE NO	CAPACITANCE	CSG VALUE	FIG NO	DESCRIPTION
638	2.050-01	2.040+03	16	WINDOW - OUTER PRESSURE PANE
TO NODE THRU CONDUCTOR CONDUCTANCE				
DIFF 632	LIN 367	7.850-05	16	WINDOW - FRAME
DIFF 628	LIN 353	7.670-06	16	WINDOW - OUTER PRESSURE PANE
DIFF 608	LIN 373	7.670-06	16	WINDOW - OUTER PRESSURE PANE
BOUN 900	RAD 924	1.000-20		DEEP SPACE
BOUN 634	RAD 362	3.570-15	16	WINDOW - THERMAL PANE FRAME DRIVER
DIFF 635	RAD 364	2.030-15	16	WINDOW - THERMAL PANE
DIFF 633	RAD 365	9.000-15	16	WINDOW - INNER PRESSURE PANE

ARITHMETIC NODE PSEUDO-COMPUTE SEQUENCE FOLLOWS

NODE NO	ARITHMETIC NODE		FIG NO		DESCRIPTION
975			16		
	TO NODE	THRU CONDUCTOR	CONDUCTANCE		WINDOW SHADE
BCUN	950	LIN 445	1.000-20		CABIN AIR
DIFF	601	LIN 885	1.000-06	16	WINDOW - FRAME ADAPTER
DIFF	611	LIN 886	1.000-06	16	WINDOW - FRAME ADAPTER
DIFF	621	LIN 887	1.000-06	16	WINDOW - FRAME ADAPTER
DIFF	631	LIN 888	1.000-06	16	WINDOW - FRAME ADAPTER
DIFF	603	RAD 875	3.590-15	16	WINDOW - INNER PRESSURE PANE
DIFF	613	RAD 876	3.590-15	16	WINDOW - INNER PRESSURE PANE
DIFF	623	RAD 877	3.590-15	16	WINDOW - INNER PRESSURE PANE
DIFF	633	RAD 878	3.590-15	16	WINDOW - INNER PRESSURE PANE

END OF DATA

APPENDIX D

STB FIBERGLASS STANDOFF TMM CARD LISTING

BCD 3THERMAL SPCS
BCD 9STB FIBERGLASS STANDOFF THERMAL MATH MODEL
END
BCD 3NODE DATA

1, 70., 4.23E-3, 2, 70., 4.23E-3, 3, 70., 1.96E-3
4, 70., 1.99E-3, 5, 70., 1.99E-3, 6, 70., 1.99E-3
7, 70., 1.99E-3, 8, 70., 1.99E-3, 9, 70., 1.99E-3
10, 70., 1.99E-3, 11, 70., 1.99E-3, 12, 70., 1.99E-3
13, 70., 1.99E-3, 14, 70., 1.49E-3, 15, 70., 1.49E-3
16, 70., 0.30E-3, 17, 70., 0.30E-3, 18, 70., 0.30E-3
19, 70., 0.30E-3, 20, 70., 0.30E-3, 21, 70., 0.30E-3
22, 70., 0.30E-3, 23, 70., 0.30E-3, 24, 70., 0.30E-3
25, 70., 0.30E-3, 26, 70., 0.30E-3, 27, 70., 0.95E-3
28, 70., 0.95E-3
-61, 70., 0.
-64, 70., 0.

END

BCD 3CONDUCTOR DATA

1, 61, 1, 0.75E-3, 2, 61, 2, 0.75E-3, 3, 1, 3, 1.40E-3
4, 2, 3, 1.40E-3
CGS 5, 61, 3, A1, 2.5474, 6, 61, 4, A1, 3.7500
CGS 7, 61, 5, A1, 3.7500, 8, 61, 6, A1, 3.7500
CGS 9, 61, 7, A1, 3.7500, 10, 61, 8, A1, 3.7500
CGS 11, 61, 9, A1, 3.7500, 12, 61, 10, A1, 3.7500
CGS 13, 61, 11, A1, 3.7500, 14, 61, 12, A1, 3.7500
CGS 15, 61, 13, A1, 3.7500, 16, 61, 14, A1, 2.8125
CGS 17, 61, 15, A1, 2.8125
18, 3, 4, 3.52E-3, 19, 3, 5, 3.52E-3, 20, 4, 6, 3.52E-3
21, 5, 7, 3.52E-3, 22, 6, 8, 3.52E-3, 23, 7, 9, 3.52E-3
24, 8, 10, 3.52E-3, 25, 9, 11, 3.52E-3, 26, 10, 12, 3.52E-3
27, 11, 13, 3.52E-3, 28, 12, 14, 4.02E-3, 29, 13, 15, 4.02E-3
30, 3, 16, 3.33 E-3, 31, 5, 17, 3.33E-3, 32, 4, 18, 3.33E-3
33, 7, 19, 3.33 E-3, 34, 6, 20, 3.33E-3, 35, 9, 21, 3.33E-3
36, 8, 22, 3.33 E-3, 37, 11, 23, 3.33E-3, 38, 10, 24, 3.33E-3
39, 13, 25, 3.33 E-3, 40, 12, 26, 3.33E-3, 41, 15, 27, 1.61E-3
42, 14, 28, 1.61E-3, 43, 16, 17, 0.53E-3, 44, 16, 18, 0.53E-3
45, 17, 19, 0.53E-3, 46, 18, 20, 0.53E-3, 47, 19, 21, 0.53E-3
48, 20, 22, 0.53E-3, 49, 21, 23, 0.53E-3, 50, 22, 24, 0.53E-3
51, 23, 25, 0.53E-3, 52, 24, 26, 0.53E-3, 53, 25, 27, 0.58E-3
54, 26, 28, 0.58E-3, 55, 27, 64, 1.61E-3, 56, 28, 64, 1.61E-3
-57, 3, 64, 4, 64, 5, 64, 6, 64, 7, 64, 8, 64, 9, 64, 10, 64

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11, 64, 12, 64, 13, 64, 4.90E-12
-58, 14, 64, 15, 64, 3.68E-12
-59, 16, 64, 17, 64, 18, 64, 19, 64, 20, 64, 21, 64, 22, 64, 23, 64
24, 64, 25, 64, 26, 64, 0.74E-12
-60, 27, 64, 28, 64, 0.87E-12
-61, 61, 3, 6.26E-12

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END

BCD 3CONSTANTS DATA

TIMEND, 13., OUTPUT, .1

END

BCD 3ARRAY DATA

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1, -260., .20E-3, -160., .30E-3, -110.; .36E-3, -60., .46E-3
-10., .59E-3, 40., .77E-3, 90., 1.1E-3, 190., 1.62E-3, END $ CNDNCS
100, 0., .8, 1., 1.4, 1.6, 1.7, 2., 2.7, 3., 3.4, 4., 5., 6., 7., 8.
9., 9.2, 10.4, 11., 11.4, 12.5, 12.6, 13.7, END $ TIME
161, 28., 15., 165., -3., 208., 50., -15., -85., -95., -105., -112.
-130., -140., -148., -156., -163., -166., -166., -185., -190., -190.
-197., -197., END $ DRIVER 61
164, 74., 74., 74., 74., 74., 74., 74., 74., 74., 71., 71., 71., 69.
66., 65., 63., 63., 61., 61., 59., 57., 57., 54., END $ DRIVER 64

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END

BCD 3EXECUTION

DIMENSION X(50)

NDIM = 50

NTH = 0

CNFRWD

END

BCD 3VARIABLES 1

D1D1DA(TIMEM,A100,A161,T61)

D1D1DA(TIMEM,A100,A164,T64)

ARYDIV(13,G5,144.,G5)

END

BCD 3VARIABLES 2

END

BCD 3OUTPUT CALLS

PRNTMP

END

BCD 3END OF DATA

F
F
F