2.10.5 Trunnion Analysis

This section discusses the methods used to analyze the trunnions. Section 2.5.1.1 contains a description of the geometry and location of the trunnions and shows the differences between the present design and the design that was analyzed. The ANSYS finite-element computer program (Section 2.10.1) and strength-of-material calculations are used to analyze the trunnions. The main objective of the ANSYS analysis is to obtain the effect of the trunnion loading on the cask wall and at the cask wall/trunnion intersection and at the junction of the trunnion and gusset. The ANSYS model included therefore only the cask wall, the inner cylinder, and the gussets. Strength-of-material calculations are used to analyze the outer cylinder.

2.10.5.1 ANSYS Analysis.

2.10.5.1.1 Models and Loadings. We used two ANSYS models to analyze the trunnion. The first model represents the trunnion configuration and the surrounding cask wall. The second model uses a fine mesh to represent the trunnion/gusset intersection, which is the most highly stressed area on the trunnion.

The trunnion/cask model is illustrated in Figs. 2.10.5-1 and 2.10.5-2. The model contains 14751 nodes and 9672 elements and extends 24 in. on either side of the trunnion centerline in the +/– Z direction and to the midlength of the flat side wall of the cask in the +/– Y direction. The model was developed by means of the mirror option in PATRAN (2.10.1); therefore, the gusset geometry is the same on both sides, extending 11.37 in. from the centerline of the trunnion, with a thickness of one inch. The model size in the Z direction was chosen so that the boundary conditions have no impact on the stresses in the trunnion, gusset and cask wall. A cask wall thickness of 1.75 in. was used instead of 1.5 in. The stresses in the wall are adjusted for this difference in wall thickness, as described in section 2.10.5.1.2.

The ANSYS model uses the 3-D isoparametric solid element (STIF45). The element is defined by eight nodal points having three degrees of freedom at each node: translation in the X, Y, and Z. Symmetrical boundary conditions were imposed on the model in order to limit the number of elements needed to described the geometry. The boundary conditions imposed on the model are shown in Fig. 2.10.5-2. The symmetrical boundaries shown in Fig. 2.10.5-2 are severe constraints on the cask wall since they represent a model having 4 trunnions around the cask instead of two.

As mentioned earlier, the objective of the ANSYS model is to obtain the effect of the trunnion loading on the cask wall, at the cask wall/trunnion intersection and at the trunnion/gusset junction. The outer cylinder of the trunnion where it is held by the trailer tiedown is analyzed, using strength-of-material techniques. A 0.5-in. region was included in the model to distribute the point loadings more evenly. This part of the model used a low modulus that does not contribute to the strength of the rest of the model.

The weld buildup around the gusset was modeled conservatively. It was modeled using 0.65 in. x .5 in. leg heights instead of the present 1.0 in. x 1.0 in., and extends only over a short distance from the edges instead of all along the gusset and around the inner cylinder.

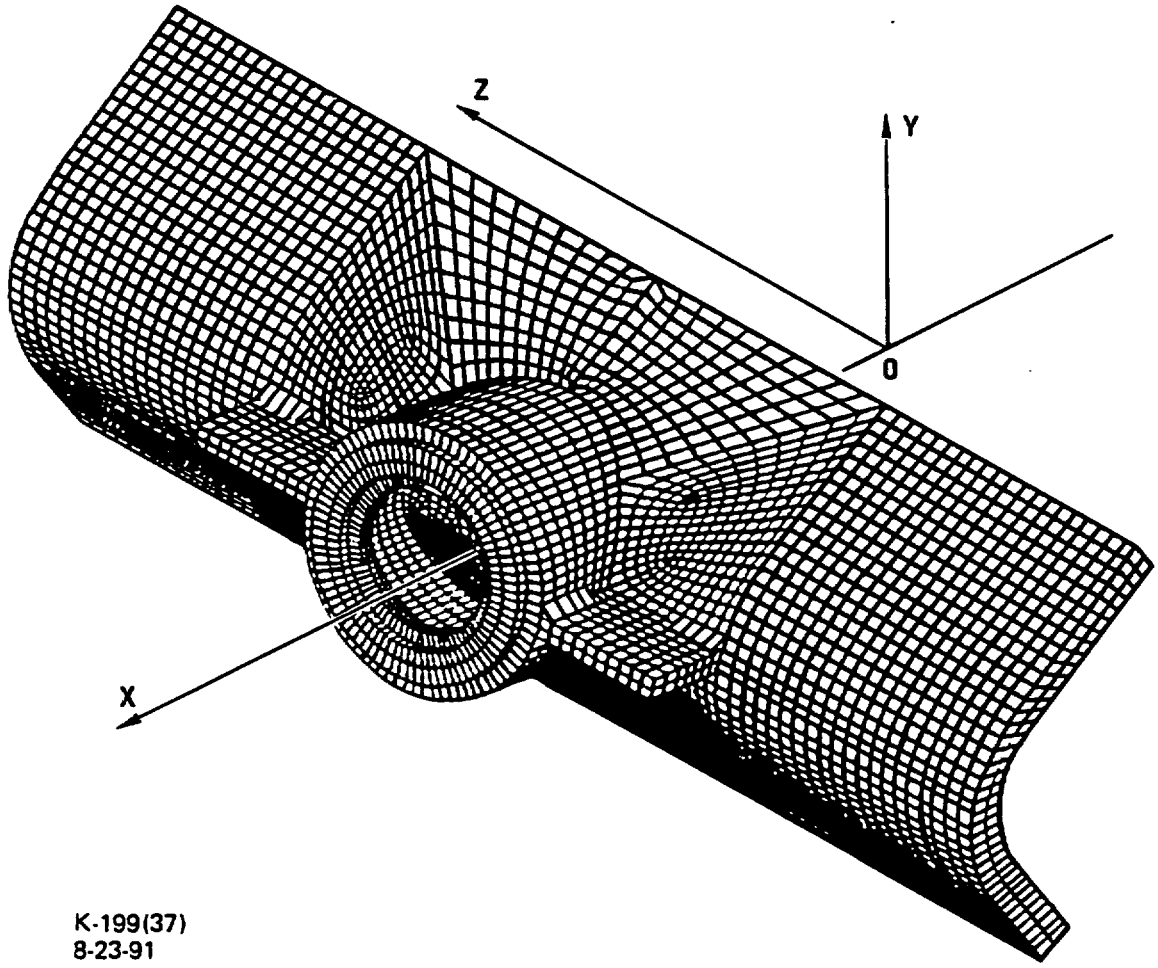


Fig. 2.10.5-1. ANSYS model trunnion/cask

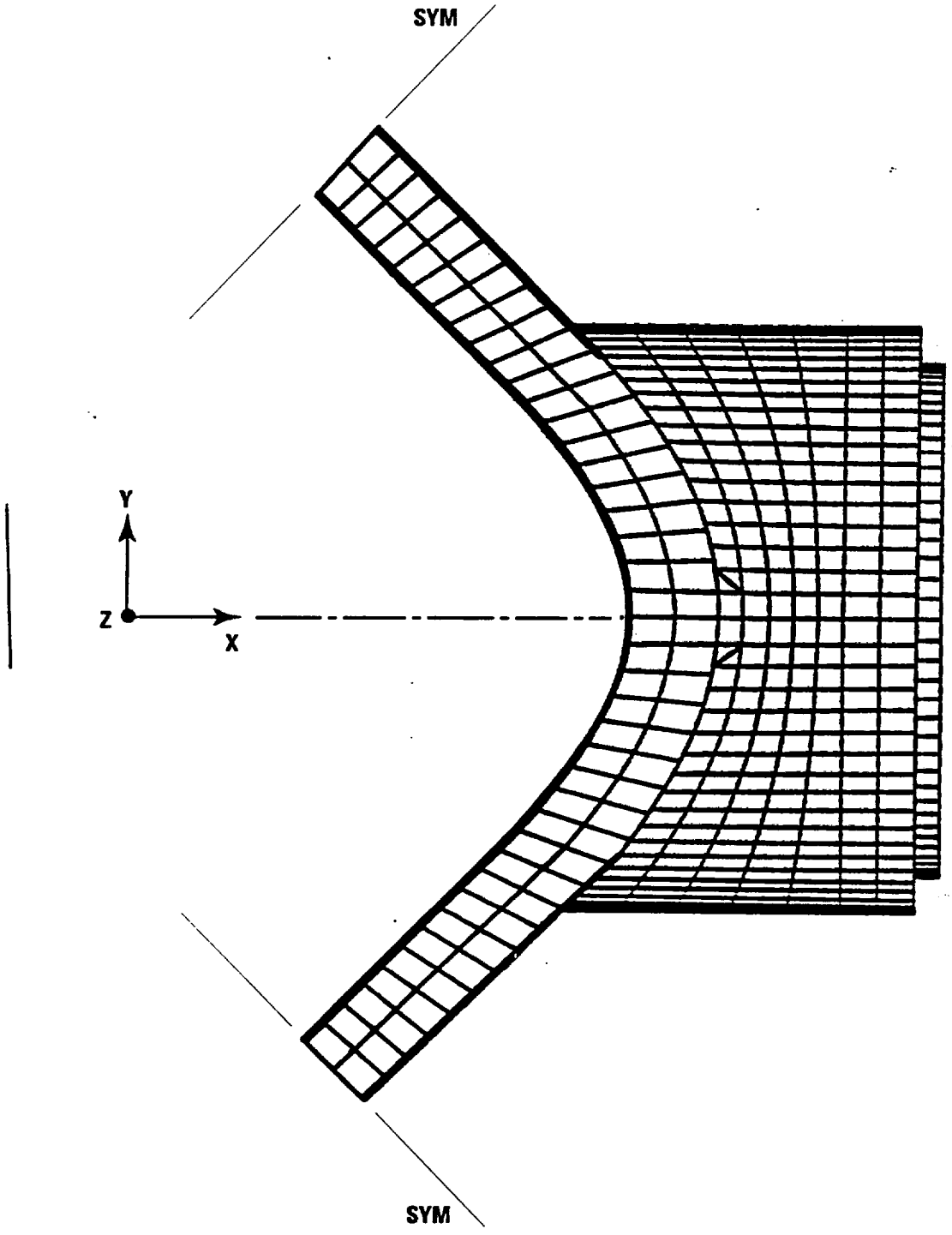


Fig. 2.10.5-2. ANSYS model, end view

As discussed in Section 2.5, the most critical loading condition with respect to the allowable is the tiedown loading condition (the 10/5/2-g loading discussed in Section 2.5.2.1). The maximum tiedown load at any trunnion is calculated in Section 2.5.2.1 and is 278,000 lb shear force and 138,000 lb lateral force. The loads applied to the ANSYS model assume the cask is centered on the trailer and, as a result, are 276,372 lb shear force and 137,500 lb lateral force. Note that these differ from the calculated, off-center loads by 1% or less.

The forces and moments shown in Fig. 2.10.5-3 are applied to the trunnion configuration in the ANSYS model. The moments are developed as follows:

M_y = moment at Section B-B, Fig. 2.10.5-4 (ANSYS model at trunnion end)
= (3.25/2 −.5)(276372)
= 310,919 in.-lb

M_x = a torsional moment produced by the 0.75-in. offset of the outer cylinder on the bottom trunnions
= (.75)(276372)
= 207,280 in.-lb

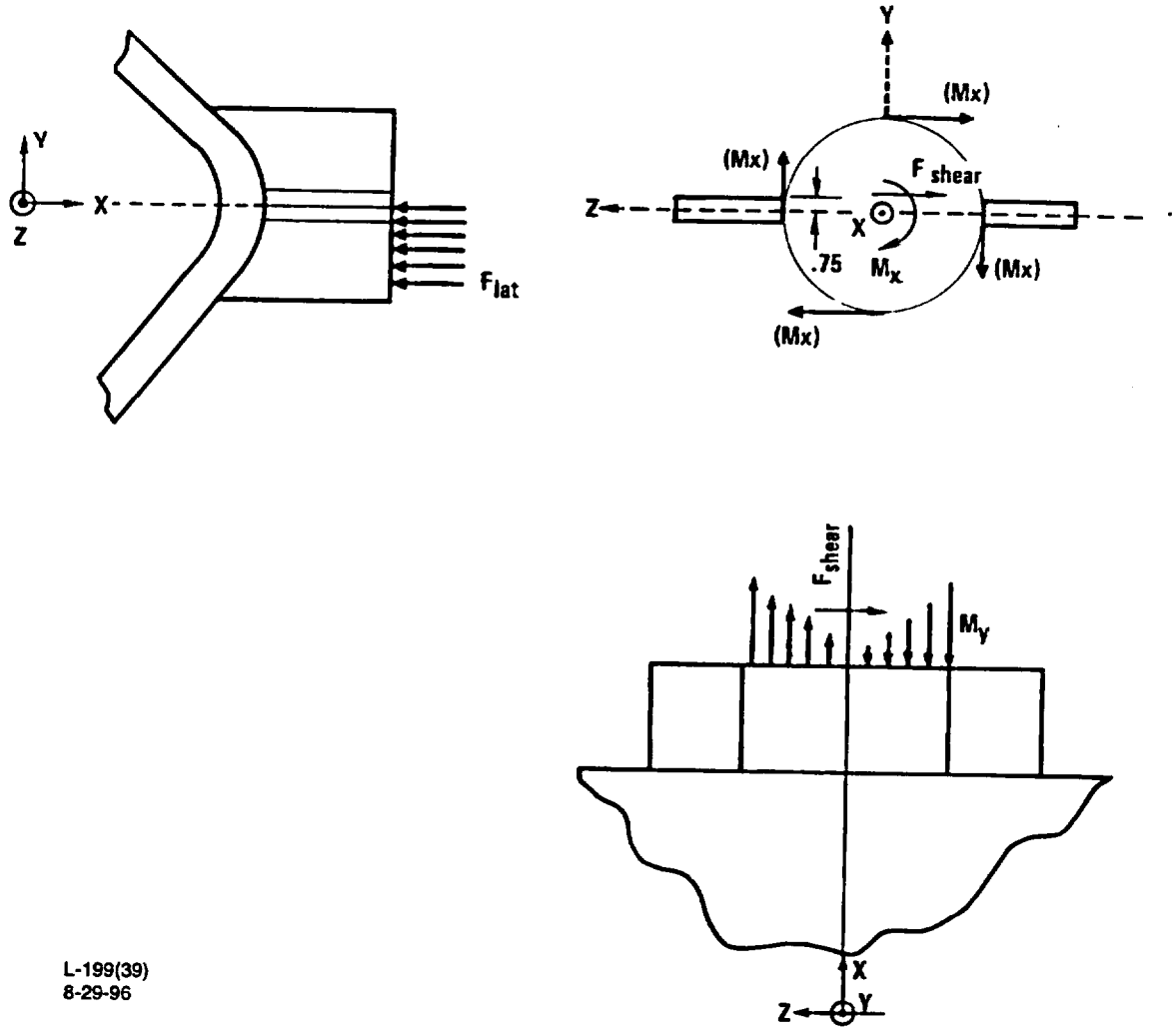
All forces were applied on Section B-B (Fig. 2.10.5-4). The shear load F_{shear} was applied as equal nodal forces in the Z direction. The torsional moment M_x was also applied as nodal forces with the forces applied in the Y-Z plane, tangential to the cylinder. (See Fig. 2.10.5-3.)

The lateral force F_{lat} was applied as nodal forces in the X direction but only on the lower section of the trunnion. This was done to simulate the load reaction on the lower half at the trailer tiedown.

The M_y moment is needed because the ANSYS model omits the 3.25-in.-long outer cylinder (see Fig. 2.5-1), and the shear load is assumed centered axially along this cylinder. The moment arm is reduced by 0.5 in. since the outer 0.5-in. layer is a modeling technique only (see Fig. 2.10.5-4) and not part of the trunnion. The M_y moment was applied as nodal forces in the X direction, which varied as shown in Fig. 2.10.5-3.

A local model using a fine mesh was also developed in order to determine stress concentration magnitudes and local stress distributions. This was done by means of the ANSYS submodeling technique. The model location was taken from the left side (+Z direction) of the trunnion, which was the location of the highest stresses, as shown in Fig 2.10.5-5. The model has 4,563 nodes and 3,632 elements.

The loading on the local model was developed by using the ANSYS AUX1 utility command "CBDSP". This routine applies displacements from the trunnion/cask model to the selected boundary nodes of the local model.



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where

M_y = 310,919 in.-lb

F_{lat} = 137,500 lb (applied to the lower half of the trunnion only)

F_{shear} = 276,372 lb

M_x = 207,280 in.-lb (torsion)

Fig. 2.10.5-3. ANSYS model loading

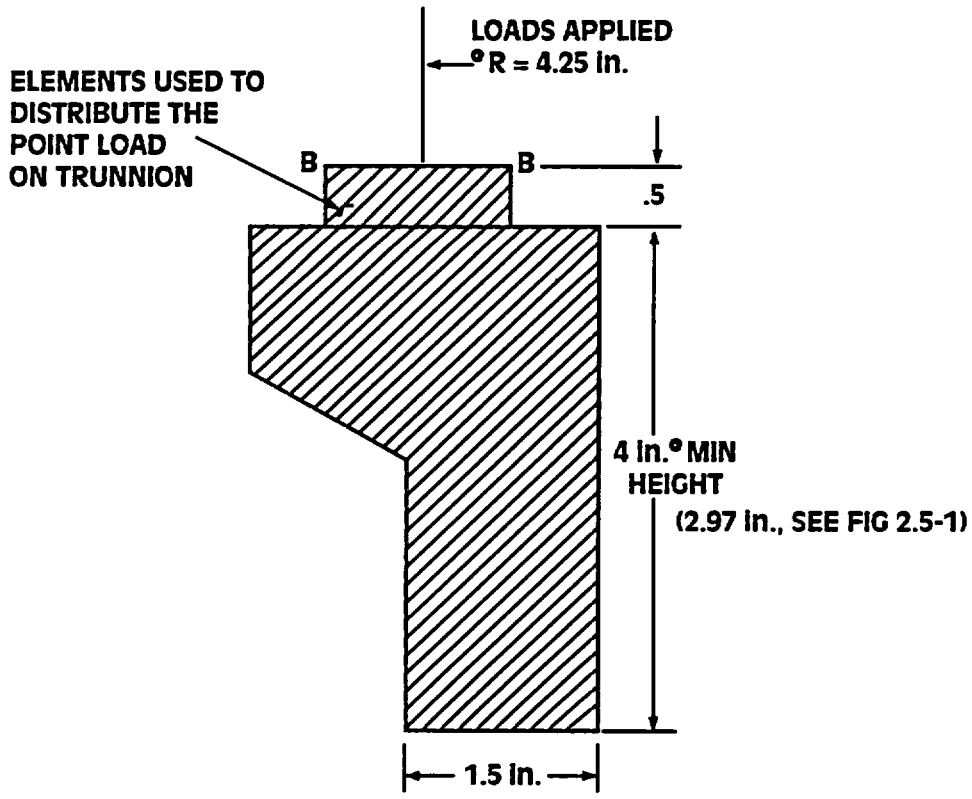


Fig. 2.10.5-4. Cross section of trunnion model showing location of load application (Section B-B)

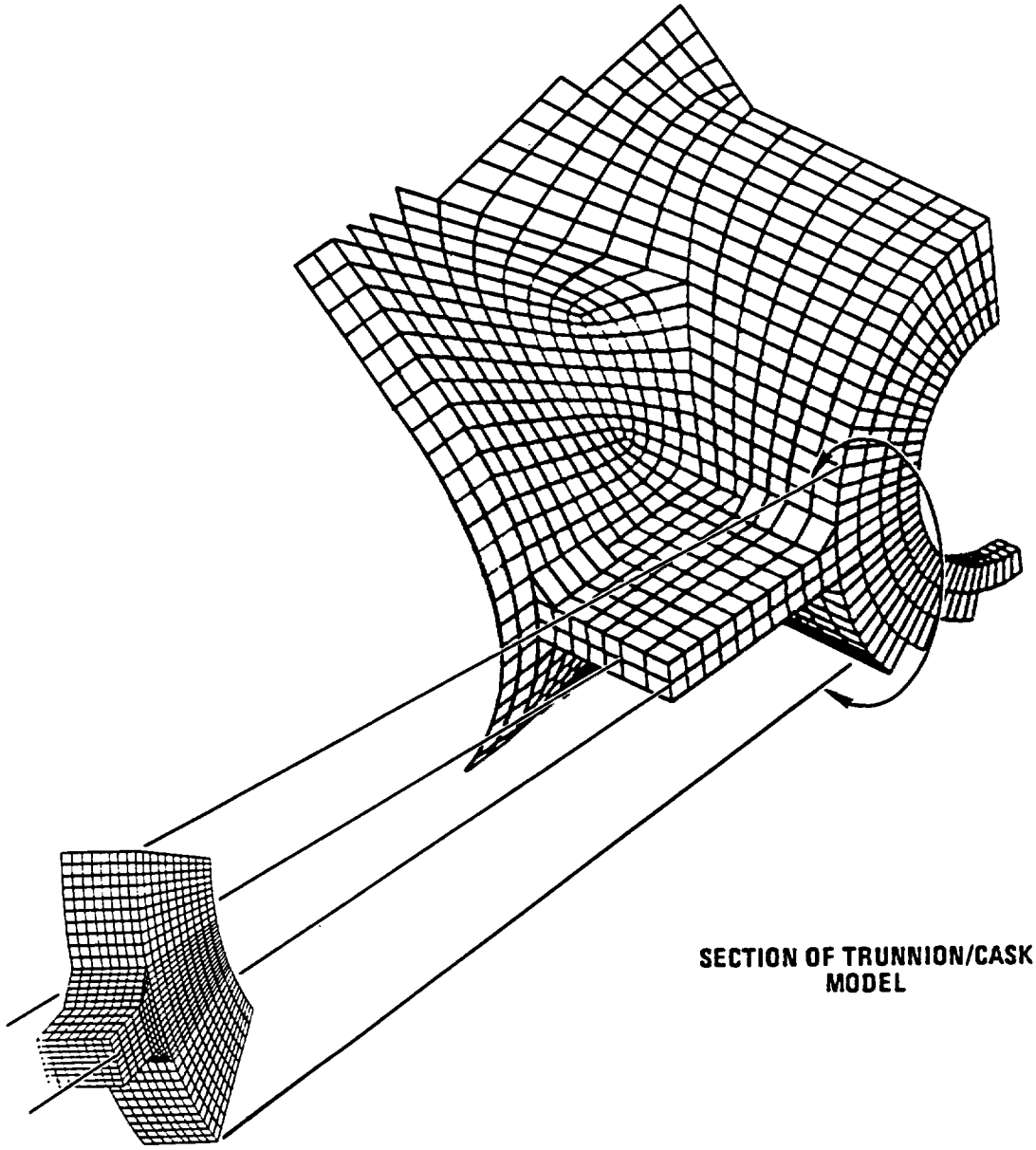


Fig. 2.10.5-5. Local ANSYS model location on trunnion/cask model

2.10.5.1.2 ANSYS Results. The ANSYS analysis results include primary, secondary and peak stresses, and we very conservatively hold the secondary and peak stresses to a yield strength criteria.

The maximum stress locations in the trunnion, caused by the tiedown loads discussed earlier, occurred in the attachment region of the gusset at the top of the trunnion (in the weld build-up) and in the back side of the trunnion across from the gusset, as shown in Fig. 2.10.5-6 in the 1, 2, and 3 locations. The finer meshed model was developed in this region to give a better definition of the stress state, even though this high stress condition is classified as peak. The stress results from the local model are below the yield stress of the XM-19 material.

The next maximum stress value in the gusset occurred at the weld to the cask wall (Point 4 on Fig. 2.10.5-6). The ANSYS model used a fillet having leg heights of .625 x .5 in. The weld size in the final design is 1.00 x 1.00 in. This weld increase makes the ANSYS results conservative.

The maximum stress location in the cask wall occurred on the side in which both the applied bending and normal loading are additive (Point 5 on Fig. 2.10.5-6). The maximum stress for a 1.75-in.-thick cask wall is;

Stress, psi						
S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}	SI
–9,440	–12,580	–17,620	–10,820	–4,250	–8,620	29,940

Since this stress condition occurs at the surface of the cask, a ratio of the square of the wall thickness ($1.75^2/1.5^2=1.36$) can be applied to the S_x, S_y and S_z bending stress values to obtain the stress condition for the GA-4 cask with a 1.5-in.-thick cask wall. Therefore:

Stress, psi						
S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}	SI
–12,838	–17,120	–23,980	–10,820	–4,250	–8,620	30,990

The resulting design margin is, using S_y (at 180°F) = 48,600 psi,

$$D.M. = (48.6/30.99) - 1 = +0.57$$

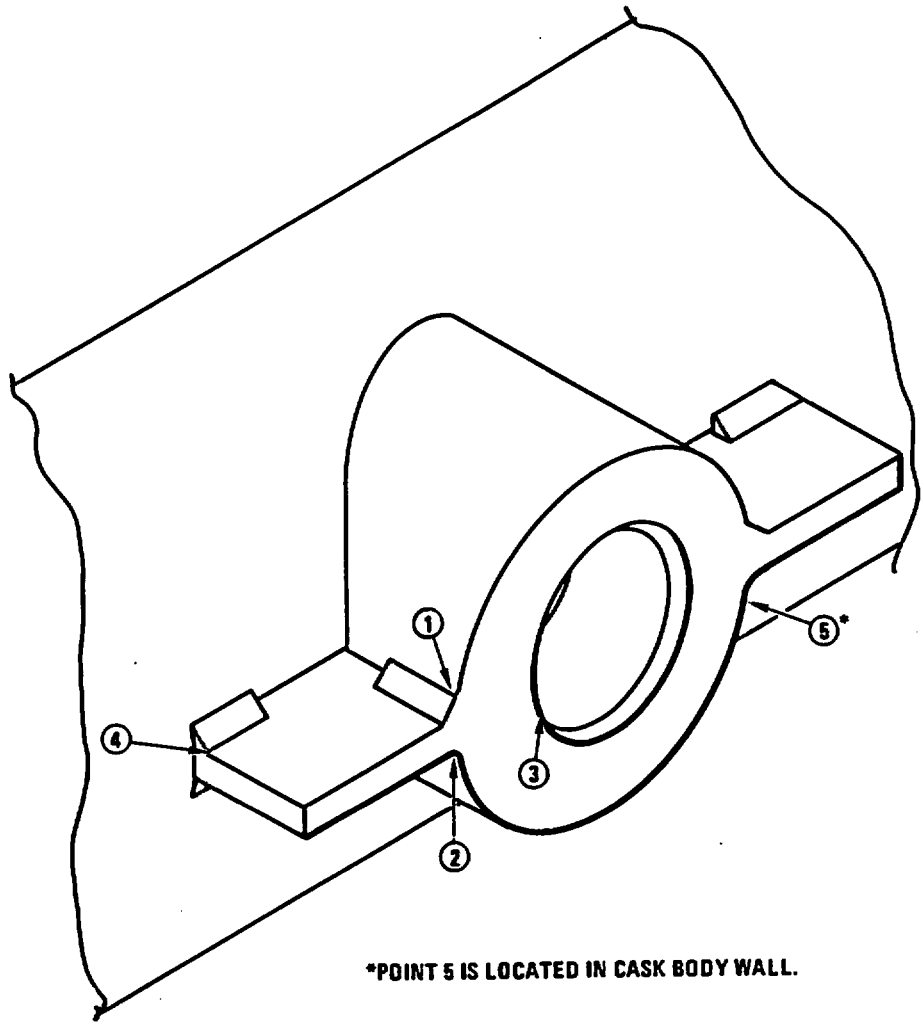


Fig. 2.10.5-6. Maximum stress location points on ANSYS trunnion analysis

Adding the internal pressure stress (MNOP, 80 psi, from Section 2.10.6, Table 2.10.6-20 stress point 8) to the tiedown stresses we obtain the following:

Stress (psi)							
Load Type	S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}	SI
Tiedown	-12,838	-17,120	-23,980	-10,820	-4,250	-8,620	--
MNOP	-870	-380	-280	-690	0	0	--
Total	-13,708	-17,500	-24,260	-11,510	-4,250	-8,620	31,790

Table 2.10.5-1 summarizes the ANSYS results of the most highly stressed points due to the tiedown loads, Points 1 through 5 on Fig. 2.10.5-6.

TABLE 2.10.5-1
MAXIMUM STRESSES (ksi) ON ANSYS TRUNNION ANALYSIS
DUE TO TIEDOWN LOADS

Loc. (Fig. 2.10.5-6)	S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}	SIG1	SIG2	SIG3	SI
1	0.96	5.82	36.37	1.16	-8.46	-3.33	38.88	3.67	0.61	38.28
2	1.03	6.65	36.51	-0.85	9.8	-2.37	39.60	3.73	0.86	38.74
3	-0.21	-31.72	-0.19	1.1	0.73	.04	-0.11	-0.24	-31.78	31.67
4[(a)]	25.83	2.71	-0.35	-5.21	1.46	-10.0	30.27	1.67	-3.75	34.02
5	-13.71	-17.50	-24.26	-11.51	-4.25	-8.62	-3.12	-17.44	-34.91	31.79

[(a)]Conservative stress—represents a 0.625-in. x .5-in. weld leg height (actual design is 1.0-in. x 1.0-in. weld leg height).

Table 2.10.5-2 shows that the minimum design margins occur in the trunnion (Point 2, D.M. = .13) and not on the cask wall (Point 5, D.M. = .53); therefore, if excessive force is put on the trunnions, this will ensure that the trunnion will fail before the cask wall.

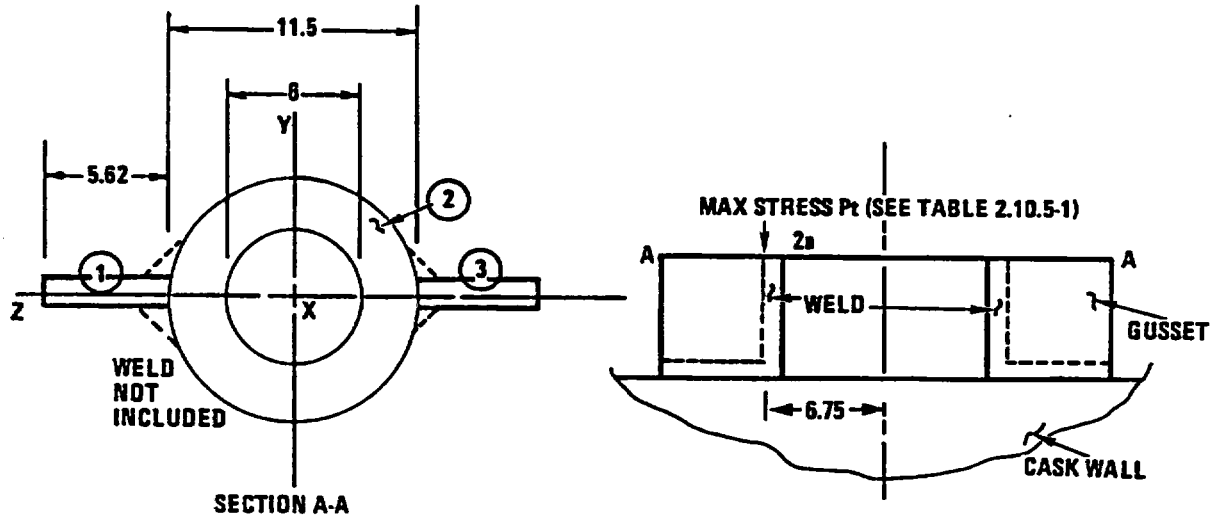
TABLE 2.10.5-2
DESIGN MARGINS ON ANSYS TRUNNION ANALYSIS
DUE TO TIEDOWN LOADS

Location (Fig. 2.10.5-6)	Stress Intensity (ksi)	Allowable (ksi)	Design Margin
1	38.3	43.74[a]	+0.14
2	38.7	43.74[a]	+0.13
3	31.7	48.60	+0.53
4	34.0	43.74[a]	+0.29
5	31.8	48.60[b]	+0.53

[a]Based on yield at 180°F (48.6 ksi) and the weld quality factor of n = 0.9 per ASME Code Table NG-3352-1 Section III for progressive PT weld examination.
[b]Based on yield at 180°F (48.6 ksi).

The M_y moment applied to the ANSYS model (see Section 2.10.5.1.1) assumes that the load is applied at the middle of the outer cylinder (3.25 in./2 = 1.625 in.). In reality, the cask can move within the trailer supports so that on one side the trunnion is positioned directly against the trailer support, and on the other side the center of the support area is located at [(3.25 – .44)/2 + .44] = 1.845 in. This represents a 13.5% increase on the moment arm over the ANSYS model. The M_y term on the loading is the only term affected.

Since the moment increased, the corresponding bending stress S_x will add to the ANSYS calculated stresses. The effect is developed as follows, using Fig. 2.10.5-7.



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Moment of Inertia I_{yy} for Section A-A					
Item	Z (in.)	A (in.^{2})	AZ (in.^{3})	AZ^2 (in.^{4})	I_{CG} (in.^{4})
1	8.56	5.62	48.11	411.8	14.8
2	0	75.59	0	0	794.9
3	-8.56	5.62	–48.11	411.8	14.8
				823.6	824.5
$I_{yy} = \Sigma I_{CG} + \Sigma AZ^2 = 823.6 + 824.5 = 1648.1$ in.^{4}					

Fig. 2.10.5-7. Geometry of a trunnion at Section A-A

For point 2 in Fig. 2.10.5-6 (maximum stress point),

$$\Delta\text{stress} = \frac{(1.845 - 1.625)\ (276{,}372)\ (6.75)}{1648.1} = 250 \text{ psi}$$

This stress increase is negligible and will not change the results significantly.

2.10.5.2 Outer Cylinder Stress. The purpose of the ANSYS trunnion model was to establish the stress in the trunnion and to determine the effect on the cask wall. For that reason, the model did not include the outer cylinder of the trunnion configuration shown in Fig. 2.10.5-8. Strength-of-material calculations are used to develop the stress state in the outer portion of the trunnion. The design criteria for the loading presented is limited to the yield strength (XM-19, 48,600 psi at 180°F).

Per Section 2.5.2.1, the tiedown loadings on the outer cylinder are

F_{shear} = 278,000 lb
$M_{A\text{-}A}$ = 512,900 in.-lb

The section properties at Section A-A (outer cylinder portion) are

$$A_{A\text{-}A} = \pi(4.75^2 - 3.00^2) = 42.6 \text{ in.}^2$$

$$I_{A\text{-}A} = (\pi/4)(R_o^4 - R^4) = (\pi/4)(4.75^4 - 3.00^4) = 336.2 \text{ in.}^4$$

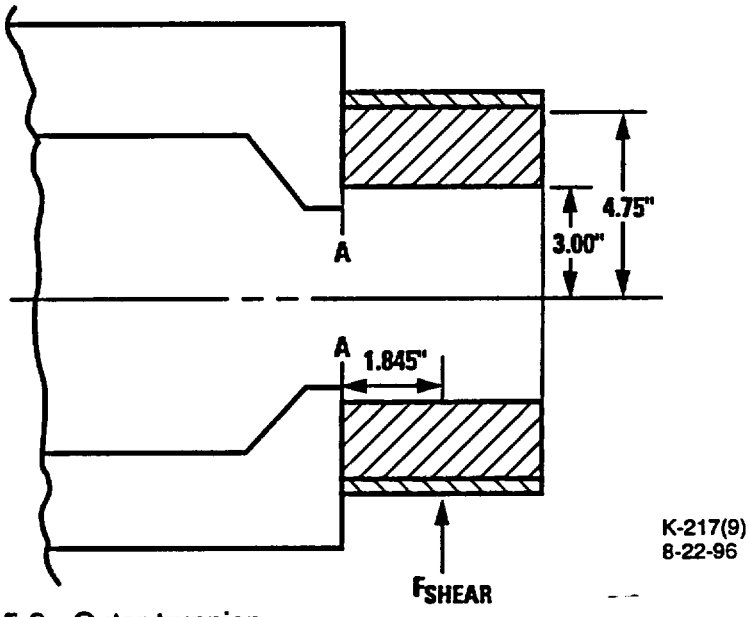

Fig. 2.10.5-8. Outer trunnion

The stresses are calculated as follows:

$$\sigma_{A\text{-}A} = \frac{M_{A\text{-}A}c}{I} = \frac{(512{,}900)(4.75)}{336.2} = 7{,}247 \text{ psi}$$

$$\tau_{A\text{-}A} = F_{shear}/A_{A\text{-}A} = \frac{(278{,}000)}{42.6} = 6{,}526 \text{ psi}$$

SI = 14,930 psi < S_y = 48,600 psi.

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2.10.6 Cask Finite Element Stress Analysis Results

The results from the analysis of the two ANSYS finite element models described in Section 2.10.2 were used to evaluate the stresses in the cask wall. Using the worst case loads for a range of impact angles and a set of base case results for the flat and corner models described in Section 2.10.2, the normal, hypothetical accident and special requirement conditions' minimum design margins for the cask wall were determined. The base case results for the two models are summarized in Section 2.10.6.1 and the load case results are detailed in Section 2.10.6.2. The summaries of load case results for the stress points with the lowest design margin for each load case without differential thermal expansion effects are presented in Tables 2.10.6-1 and 2.10.6-2 for the flat model and in Tables 2.10.6-3 and 2.10.6-4 for the corner model.

Some of the load cases were evaluated for the effects of differential thermal expansion caused by the cold environment condition. These cases are summarized in Tables 2.10.6-5 and 2.10.6-6 for the flat and corner models, respectively.

2.10.6.1 Detailed Base Case Results Summaries. This section provides the results of the base case ANSYS analyses for the flat and corner models. Tables 2.10.6-7 and 2.10.6-8 provide the resultant forces and moments at each of the axial cross sections identified in Fig. 2.10.2-1 for the drop simulations. As shown by the table, cross sections A through E provide all the information needed to give representative stresses for the cask analysis. Therefore, only the stresses for these cross sections were used in the evaluation of load cases documented in Section 2.10.6.2.

The ANSYS models had constraints to prevent rigid body motion. Symmetry boundary conditions about the x-z plane prevented motion in the global x-direction. The models were also constrained against rigid body motion in the global z-direction by fixing node 114 in the z-direction. Soft LINK8 elements, fixed at one end in all directions, were aligned with the global y-direction, thereby providing a constraint against rigid body motion in that direction. The resultant forces at the z-direction constraint were checked, as given by Table 2.10.6-9. Since the models were tied-to-ground with the LINK8 elements, the resultant forces on these elements and the end points were summarized in Tables 2.10.6-10 and 2.10.6-11. As shown by the results in these three tables, the models are well-balanced.

Table 2.10.6-12 provides a listing of the base cases, a description of the base cases and the tables which provide the detailed results for each of the cases. Nodal stresses are provided for the cross sections and locations identified in Section 2.10.2.3. These detailed tables include the directional stress components, S_x, S_y, S_z, S_{xy}, S_{yz}, and S_{xz} in the global coordinate system.

TABLE 2.10.6-1
SUMMARY OF STRESS POINTS WITH THE LOWEST DESIGN MARGINS
FOR NORMAL CONDITIONS
WITHOUT DIFFERENTIAL THERMAL EXPANSION EFFECTS
FOR FLAT MODEL

Load Case		Stress Point Location			Design Margin	Stress Type
No.	Description	Axial[a] Section	Transverse Position[a]	Position in Wall		
1	MNOP with 1-ft End Drop	E	3 7	inside inside	6.62 6.62	$P_m + P_b$ $P_m + P_b$
2	MNOP with 1-ft Side Drop	E	9	inside	1.13	$P_m + P_b$
3	MNOP with 1-ft Drop at 15°	C	9	outside	1.63	$P_m + P_b$
4	MNOP with 1-ft Drop at 30°	C	9	outside	2.60	$P_m + P_b$
5	MNOP with 1-ft Drop at 45°	C	9	outside	3.16	$P_m + P_b$
6	MNOP with 1-ft Drop at 60°	C	9	outside	1.89	$P_m + P_b$
7	MNOP with 1-ft Drop at 75°	C	9	outside	4.03	$P_m + P_b$
8	MNOP with 1-ft Drop at 78°	C	9	outside	4.03	$P_m + P_b$
9	1-ft End Drop	A	1 9	inside inside	15.23 15.23	$P_m + P_b$ $P_m + P_b$
10	1-ft Side Drop	E	9	inside	1.39	$P_m + P_b$
11	1-ft Drop at 15°	C	9	outside	2.58	$P_m + P_b$
12	1-ft Drop at 30°	C	9	inside	4.86	$P_m + P_b$
13	1-ft Drop at 45°	C	9	outside	6.17	$P_m + P_b$
14	1-ft Drop at 60°	C	9	outside	3.08	$P_m + P_b$
15	1-ft Drop at 75°	C	9	outside	9.20	$P_m + P_b$
16	1-ft Drop at 78°	C	9	outside	9.20	$P_m + P_b$

[a]Locations shown schematically in Fig. 2.10.2-1.

TABLE 2.10.6-2
SUMMARY OF STRESS POINTS WITH THE LOWEST DESIGN MARGINS
FOR HYPOTHETICAL ACCIDENT AND SPECIAL REQUIREMENT CONDITIONS
WITHOUT DIFFERENTIAL THERMAL EXPANSION EFFECTS
FOR FLAT MODEL

Load Case		Stress Point Location			Design Margin	Stress Type
No.	Description	Axial[a] Section	Transverse Position[a]	Position in Wall		
17	MNOP with 30-ft End Drop	A	1 9	inside inside	5.76	$P_m + P_b$ $P_m + P_b$
18	MNOP with 30-ft Side Drop	E	9	inside	0.52	$P_m + P_b$
19	MNOP with 30-ft Drop at 15°	C	9	outside	1.19	$P_m + P_b$
20	MNOP with 30-ft Drop at 30°	C	9	outside	1.20	$P_m + P_b$
21	MNOP with 30-ft Drop at 45°	C	9	outside	1.06	$P_m + P_b$
22	MNOP with 30-ft Drop at 60°	C	9	outside	1.16	$P_m + P_b$
23	MNOP with 30-ft Drop at 75°	C	9	outside	2.01	$P_m + P_b$
24	MNOP with 30-ft Drop at 78°	C	9	outside	2.59	$P_m + P_b$
25	MNOP with 30-ft Slapdown (15°)	C	9	outside	0.83	$P_m + P_b$
26	30-ft End Drop	A	9	inside	6.92	$P_m + P_b$
27	30-ft Side Drop	E	9	outside	0.58	$P_m + P_b$
28	30-ft Drop at 15°	C	9	outside	1.46	$P_m + P_b$
29	30-ft Drop at 30°	C	9	outside	1.48	$P_m + P_b$
30	30-ft Drop at 45°	C	9	outside	1.29	$P_m + P_b$
31	30-ft Drop at 60°	C	9	outside	1.43	$P_m + P_b$
32	30-ft Drop at 75°	C	9	outside	2.55	$P_m + P_b$
33	30-ft Drop at 78°	C	9	outside	3.38	$P_m + P_b$
34	30-ft Slapdown (15°)	C	9	outside	1.01	$P_m + P_b$
35	Fire Test Simulation	E	3 7	inside inside	10.48 10.48	$P_m + P_b$ $P_m + P_b$
36	Special Requirement	C, D, E	3 7	inside inside	1.11 1.11	$P_m + P_b$ $P_m + P_b$

[a]Locations shown schematically in Fig. 2.10.2-1.

TABLE 2.10.6-3
SUMMARY OF STRESS POINTS WITH THE LOWEST DESIGN MARGINS
FOR NORMAL CONDITIONS
WITHOUT DIFFERENTIAL THERMAL EXPANSION EFFECTS
FOR CORNER MODEL

Load Case		Stress Point Location				
No.	Description	Axial[a] Section	Transverse Position[a]	Position in Wall	Design Margin	Stress Type
1	MNOP with 1-ft End Drop	E	3	inside	6.45	$P_m + P_b$
			11	inside	6.45	$P_m + P_b$
2	MNOP with 1-ft Side Drop	E	11	middle	1.01	$P_m + P_b$
3	MNOP with 1-ft Drop at 15°	D	11	middle	2.70	$P_m + P_b$
4	MNOP with 1-ft Drop at 30°	C	7	inside	4.08	$P_m + P_b$
5	MNOP with 1-ft Drop at 45°	C	7	inside	4.47	$P_m + P_b$
6	MNOP with 1-ft Drop at 60°	D	7	inside	3.51	$P_m + P_b$
7	MNOP with 1-ft Drop at 75°	C	7	inside	4.98	$P_m + P_b$
		D	7	inside	4.98	$P_m + P_b$
8	MNOP with 1-ft Drop at 78°	C	7	inside	4.98	$P_m + P_b$
		D	7	inside	4.98	$P_m + P_b$
9	1-ft End Drop	A	5	inside	15.47	$P_m + P_b$
			9	inside	15.47	$P_m + P_b$
10	1-ft Side Drop	E	11	middle	1.04	$P_m + P_b$
11	1-ft Drop at 15°	D	11	middle	2.80	$P_m + P_b$
12	1-ft Drop at 30°	D	11	middle	5.10	$P_m + P_b$
13	1-ft Drop at 45°	D	11	middle	6.97	$P_m + P_b$
14	1-ft Drop at 60°	D	11	middle	3.77	$P_m + P_b$
15	1-ft Drop at 75°	D	3	middle	9.86	$P_m + P_b$
16	1-ft Drop at 78°	D	3	middle	9.86	$P_m + P_b$

[a]Locations shown schematically in Fig. 2.10.2-1.

TABLE 2.10.6-4
SUMMARY OF STRESS POINTS WITH THE LOWEST DESIGN MARGINS
FOR HYPOTHETICAL ACCIDENT AND SPECIAL REQUIREMENT CONDITIONS
WITHOUT DIFFERENTIAL THERMAL EXPANSION EFFECTS
FOR CORNER MODEL

Load Case		Stress Point Location			Design Margin	Stress Type
No.	Description	Axial[a] Section	Transverse Position[a]	Position in Wall		
17	MNOP with 30-ft End Drop	A	5 9	inside inside	5.85 5.85	$P_m + P_b$ $P_m + P_b$
18	MNOP with 30-ft Side Drop	E	11	middle	0.40	$P_m + P_b$
19	MNOP with 30-ft Drop at 15°	D	11	middle	1.72	$P_m + P_b$
20	MNOP with 30-ft Drop at 30°	D	11	middle	1.78	$P_m + P_b$
21	MNOP with 30-ft Drop at 45°	D	11	inside	1.65	$P_m + P_b$
22	MNOP with 30-ft Drop at 60°	D	11	middle	1.95	$P_m + P_b$
23	MNOP with 30-ft Drop at 75°	D	3	middle	2.95	$P_m + P_b$
24	MNOP with 30-ft Drop at 78°	D	3	middle	3.57	$P_m + P_b$
25	MNOP with 30-ft Slapdown (15°)	D	11	middle middle	1.19 1.19	$P_m + P_b$ $P_m + P_b$
26	30-ft End Drop	A	5 9	inside inside	7.04 7.04	$P_m + P_b$ $P_m + P_b$
27	30-ft Side Drop	E	11	middle	0.41	$P_m + P_b$
28	30-ft Drop at 15°	D	11	middle	1.74	$P_m + P_b$
29	30-ft Drop at 30°	D	11	middle	1.81	$P_m + P_b$
30	30-ft Drop at 45°	D	11	middle	1.68	$P_m + P_b$
31	30-ft Drop at 60°	D	11	middle	1.98	$P_m + P_b$
32	30-ft Drop at 75°	D	3	middle	3.00	$P_m + P_b$
33	30-ft Drop at 78°	D	3	middle	3.64	$P_m + P_b$
34	30-ft Slapdown (15°)	D	11	middle	1.21	$P_m + P_b$
35	Fire Test Simulation	E	3 7 11	inside inside inside	10.22 10.48 10.22	$P_m + P_b$ $P_m + P_b$ $P_m + P_b$
36	Special Requirement	C, D, E	3 7 11	inside inside inside	1.07 1.11 1.07	$P_m + P_b$ $P_m + P_b$ $P_m + P_b$

[a]Locations shown schematically in Fig. 2.10.2-1.

TABLE 2.10.6-5
SUMMARY OF SELECTED LOAD CASE RESULTS
FOR FLAT MODEL
WITH COLD ENVIRONMENT DIFFERENTIAL THERMAL EXPANSION EFFECTS

Load Case		Stress Point Location				
No.	Description	Axial[a] Section	Transverse Position[a]	Position in Wall	Design Margin	Stress Type
1	MNOP with 1-ft End Drop	A	1	middle	3.73	P_m
			5	middle	3.73	P_m
			9	middle	3.73	P_m
2	MNOP with 1-ft Side Drop	D	9	inside	0.83	$P_m + P_b$
		E	8	middle	0.83	P_m
9	1-ft End Drop	A	2	middle	4.09	P_m
			4	middle	4.09	P_m
			6	middle	4.09	P_m
			8	middle	4.09	P_m
10	1-ft Side Drop	E	8	middle	0.87	P_m
17	MNOP with 30-ft End Drop	A	1	inside	4.06	$P_m + P_b$
			9	inside	4.06	$P_m + P_b$
18	MNOP with 30-ft Side Drop	E	9	inside	0.41	$P_m + P_b$
25	MNOP with 30-ft Slapdown (15°)	C	9	inside	0.76	$P_m + P_b$
26	30-ft End Drop	A	1	inside	4.67	$P_m + P_b$
			9	inside	4.67	$P_m + P_b$
27	30-ft Side Drop	E	9	inside	0.46	$P_m + P_b$
34	30-ft Slapdown (15°)	C	9	inside	0.85	$P_m + P_b$

[a]Locations shown schematically in Fig. 2.10.2-1.

TABLE 2.10.6-6
SUMMARY OF SELECTED LOAD CASE RESULTS
FOR CORNER MODEL
WITH COLD ENVIRONMENT DIFFERENTIAL THERMAL EXPANSION EFFECTS

Load Case		Stress Point Location				
No.	Description	Axial[a] Section	Transverse Position[a]	Position in Wall	Design Margin	Stress Type
1	MNOP with 1-ft End Drop	A	5	middle	3.71	P_m
			9	middle	3.71	P_m
2	MNOP with 1-ft Side Drop	E	11	middle	0.51	P_m
9	1-ft End Drop	A	4	middle	4.09	P_m
			6	middle	4.09	P_m
			8	middle	4.09	P_m
			10	middle	4.09	P_m
10	1-ft Side Drop	E	11	middle	0.54	P_m
17	MNOP with 30-ft End Drop	A	5	inside	4.09	$P_m + P_b$
			9	inside	4.09	$P_m + P_b$
18	MNOP with 30-ft Side Drop	E	11	middle	0.27	P_m
25	MNOP with 30-ft Slapdown (15°)	D	11	middle	0.88	P_m
26	30-ft End Drop	A	5	inside	4.74	$P_m + P_b$
			9	inside	4.74	$P_m + P_b$
27	30-ft Side Drop	E	11	middle	0.28	P_m
34	30-ft Slapdown (15°)	D	11	middle	0.89	P_m

[a]Locations shown schematically in Fig. 2.10.2-1.

TABLE 2.10.6-7
BASE CASE RESULTANT FORCES AND MOMENTS AT AXIAL CROSS SECTIONS
FOR THE ANSYS FLAT MODEL OF THE GA-4 CASK

Cross Section	Forces and Moments for Selected Section					
	FX (lb)	FY (lb)	FZ (lb)	MX (in-lb)	MY (in-lb)	MZ (in-lb)
BC-2F, end drop normalized to 10g (FEND61)						
A	1.20E04	0.32E–10	–3.03E04	–0.11E–08	2.63E05	–0.37E–07
B	–3.84E03	0.18E–10	7.61E04	–0.10E–08	–6.76E05	–1.10E–07
C	1.69E01	0.21E–10	6.72E04	–0.44E–11	–5.85E05	0.56E–09
D	1.58E00	0.10E–10	6.29E04	–0.45E–10	–5.45E05	0.56E–09
E	4.68E00	0.29E–11	5.40E04	0.55E–10	–4.62E05	0.11E–09
F	0.47E00	–0.57E–11	4.56E04	–0.63E–09	–3.84E05	0.17E–09
G	1.56E01	0.69E–11	4.13E04	0.63E–10	–3.44E05	–0.18E–10
H	5.12E01	0.21E–10	2.83E04	–0.10E–09	–2.34E05	0.34E–09
BC-3F, side drop at 47.7g (FSID477)						
A	–1.57E04	1.92E05	–0.23E–08	1.70E06	4.85E05	3.77E06
B	3.03E04	4.47E05	–0.32E–08	7.11E06	3.86E05	6.82E06
C	–4.48E03	2.66E05	–0.37E–08	1.73E07	–1.73E05	4.48E06
D	–5.62E03	1.78E05	–0.39E–08	2.05E07	–8.99E04	3.00E06
E	–8.75E01	–2.63E03	–0.43E–08	2.30E07	–1.60E04	–5.05E03
F	6.32E03	–1.89E05	–0.49E–08	2.07E07	–8.95E04	–2.89E06
G	9.32E03	–2.99E05	–0.11E–07	1.77E07	–2.14E05	–4.38E06
H	1.28E04	–2.42E05	0.10E–09	2.07E06	4.24E05	–4.62E06
BC-4F, oblique drop normalized to 10g (FOBLIQ10)						
A	–4.71E03	4.61E04	–4.82E03	4.34E05	2.32E05	1.10E06
B	1.52E04	1.42E05	–4.25E03	2.24E06	1.62E05	2.16E06
C	–2.85E03	5.04E04	–2.54E03	4.88E06	–8.12E04	8.63E05
D	–2.88E03	1.56E04	–1.71E03	5.31E06	–3.85E04	2.60E05
E	–4.60E02	–3.59E04	4.57E00	4.91E06	–3.00E03	–6.14E05
F	–3.89E02	–6.10E04	1.98E03	3.50E06	–1.87E03	–1.01E06
G	–6.50E02	–6.29E04	3.32E03	2.60E06	8.39E02	–1.05E06
H	2.21E03	–3.40E04	4.92E03	2.57E05	–3.75E04	–5.80E05

TABLE 2.10.6-8
BASE CASE RESULTANT FORCES AND MOMENTS AT AXIAL CROSS SECTIONS
FOR THE ANSYS CORNER MODEL OF THE GA-4 CASK

Cross Section	Forces and Moments for Selected Section					
	FX (lb)	FY (lb)	FZ (lb)	MX (in-lb)	MY (in-lb)	MZ (in-lb)
BC-2C, end drop normalized to 10g (CEND61)						
A	–1.38E04	0.16E–02	–3.03E04	–0.27E00	2.89E05	0.90E–02
B	–2.66E03	0.16E–02	7.61E04	–0.23E00	–6.55E05	0.29E–01
C	3.98E00	0.16E–02	6.72E04	–0.19E00	–5.69E05	0.28E–01
D	1.26E00	0.16E–02	6.29E04	–0.17E00	–5.30E05	0.28E–01
E	2.01E00	0.16E–02	5.40E04	–0.13E00	–4.50E05	0.28E–01
F	3.96E00	0.16E–02	4.56E04	–0.88E–01	–3.74E05	0.28E–01
G	1.04E01	0.16E–02	4.13E04	–0.68E–01	–3.35E05	0.28E–01
H	2.97E00	0.16E–02	2.83E04	–0.91E–02	–2.30E05	0.27E–01
BC-3C, side drop at 47.7g (CSID477)						
A	–7.11E04	1.92E05	–0.20E–07	1.67E06	1.07E06	3.83E06
B	6.83E04	4.47E05	–0.21E–07	7.04E06	9.00E05	7.00E06
C	2.84E04	2.67E05	–0.15E–07	1.73E07	–6.59E05	4.43E06
D	1.31E04	1.79E05	–0.35E–08	2.04E07	–9.32E05	3.00E06
E	–2.18E03	–2.17E03	–0.10E–07	2.30E07	–1.05E06	–2.42E03
F	–1.40E04	–1.89E05	–0.91E–08	2.07E07	–8.34E05	–2.93E06
G	–2.28E04	–2.98E05	–0.11E–07	1.77E07	–5.51E05	–4.43E06
H	3.65E04	–2.41E05	–0.12E–09	2.07E06	1.20E06	–4.57E06
BC-4C, oblique drop normalized to 10g (COBLIQ10)						
A	–1.69E04	4.61E04	–3.57E03	4.33E05	4.70E05	1.09E06
B	3.39E04	1.42E05	–3.15E03	2.24E06	3.15E05	2.20E06
C	8.51E03	5.04E04	–1.88E03	4.88E06	–3.38E05	8.44E05
D	–8.09E01	1.56E04	–1.26E03	5.31E06	–3.85E05	2.76E05
E	–7.33E03	–3.59E04	3.57E00	4.91E06	–2.41E05	–5.84E05
F	–7.18E03	–6.10E04	1.47E03	3.50E06	–2.73E04	–9.96E05
G	–5.91E03	–6.29E04	2.46E03	2.60E06	6.46E04	–1.04E06
H	8.11E03	–3.40E04	3.64E03	2.57E05	6.66E04	–5.86E05

TABLE 2.10.6-9
BASE CASE RESULTANT FORCES AT Z-DIRECTION CONSTRAINT
FOR BOTH FLAT AND CORNER ANSYS MODELS OF THE GA-4 CASK

Base Case		Fz (lb) at Node 141	
Label	Description	Flat Model	Corner Model
BC-1	Internal pressure of 80 psig	75.931	75.934
BC-2	End drop normalized to 10g	–111.29	–111.21
BC-3	30-ft side drop	–0.24830E-08	–0.197E–07
BC-4	Oblique drop normalized to 10g	–0.13008	0.17645
BC-5	External pressure of 290 psig	0.1593E–08	0.1794E–03

TABLE 2.10.6-10
RESULTANT FORCES AT TIES-TO-GROUND
FROM ANSYS BASE CASE ANALYSES OF FLAT MODEL

Base Case		Flat Model Results				
No.	Description	Element Number	23313		23314	
BC-1	Internal pressure of 80 psig	Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.76)	34258 (0,–10,187.76)
		FX (lb)	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
		FY (lb)	0.43576E–10	–0.43576E–10	0.72361E–10	–0.72361E–10
		FZ (lb)	0.00000E+00	0.00000E+00	0.20566E–24	–0.20566E–24
		Element FN (lb)	–0.43576E–10		–0.72361E–10	
BC-2	30-ft end drop normalized to 10g	Element Number	16589		16590	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.86)	34258 (0,–10,187.86)
		FX (lb)	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
		FY (lb)	–0.19100E–10	0.19100E–10	–0.21515E–10	0.21515E–10
		FZ (lb)	0.00000E+00	0.00000E+00	–0.61150E–25	0.61150E–25
		Element FN (lb)	0.19100E–10		0.21515E–10	
BC-3	30-ft side drop	Element Number	23313		23314	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.76)	34258 (0,–10,187.76)
		FX (lb)	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
		FY (lb)	–453.16	453.16	458.52	–458.52
		FZ (lb)	0.00000E+00	0.00000E+00	0.13032E–11	–0.13032E–11
		Element FN (lb)	453.16		–458.52	
BC-4	30-ft oblique drop normalized to 10g	Element Number	23313		23314	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.86)	34258 (0,–10,187.76)
		FX (lb)	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
		FY (lb)	–215.06	215.06	261.76	–261.76
		FZ (lb)	0.00000E+00	0.00000E+00	0.74397E–12	–0.74397E–12
		Element FN (lb)	215.06		–261.76	
BC-5	External pressure of 290 psig	Element Number	23313		23314	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.86)	34258 (0,–10,187.86)
		FX (lb)	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
		FY (lb)	–0.11077E–09	0.11077E–09	0.27371E–09	–0.27371E–09
		FZ (lb)	0.00000E+00	0.00000E+00	0.77793E–24	–0.7779E–24
		Element FN (lb)	0.11077E–09		–0.27371E–09	

TABLE 2.10.6-11
RESULTANT FORCES AT TIES-TO-GROUND
FROM ANSYS BASE CASE ANALYSES OF CORNER MODEL

Base Case		Corner Model Results				
No	Description	Element Number	28673		28674	
BC-1	Internal pressure of 80 psig	Node Number Coordinates (in.)	85 (0,0,4.99)	34257 (0,–10,0)	4883 (0,0,187.76)	34258 (0,–10,187.76)
		FX (lb) FY (lb) FZ (lb)	0.00000E+00 –0.98220E–02 0.00000E+00	0.00000E+00 0.98220E–02 0.00000E+00	0.00000E+00 –0.93196E–02 –0.26488E–16	0.00000E+00 0.93196E–02 0.26488E–16
		Element FN (lb)	0.10977E–01		0.93196E–02	
BC-2	30-ft end drop normalized to 10g	Element Number	16589		16590	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.86)	34258 (0,–10,187.86)
		FX (lb) FY (lb) FZ (lb)	0.00000E+00 0.16301E–02 0.00000E+00	0.00000E+00 –0.16301E–02 0.00000E+00	0.00000E+00 –0.16301E–02 –0.46330E–17	0.00000E+00 0.16301E–02 0.46330E–17
		Element FN (lb)	–0.16301E–02		0.16301E–02	
BC-3	30-ft side drop	Element Number	28673		28674	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.76)	34258 (0,–10,187.76)
		FX (lb) FY (lb) FZ (lb)	0.00000E+00 –100.82 0.00000E+00	0.00000E+00 100.82 0.00000E+00	0.00000E+00 –102.72 –0.29195E–12	0.00000E+00 102.72 0.29195E–12
		Element FN (lb)	100.82		102.72	
BC-4	30-ft oblique drop normalized to 10g	Element Number	28673		28674	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.86)	34258 (0,–10,187.76)
		FX (lb) FY (lb) FZ (lb)	0.00000E+00 –234.60 0.00000E+00	0.00000E+00 234.60 0.00000E+00	0.00000E+00 234.40 0.66620E–12	0.00000E+00 –234.40 –0.66620E–12
		Element FN (lb)	234.60		–234.60	
BC-5	External pressure of 290 psig	Element Number	28673		28674	
		Node Number Coordinates (in.)	141 (0,0,0)	34257 (0,–10,0)	4883 (0,0,187.86)	34258 (0,–10,187.86)
		FX (lb) FY (lb) FZ (lb)	0.00000E+00 0.50606E–01 0.00000E+00	0.00000E+00 –0.50606E–01 0.00000E+00	0.00000E+00 0.51864E–01 –0.14700E–15	0.00000E+00 –0.51864E–01 0.14700E–15
		Element FN (lb)	–0.50606E–01		–0.51864E–01	

TABLE 2.10.6-12
SUMMARY OF BASE CASE RESULTS

Analysis Label	Loading Description	Table Number
BC-1 F	Internal pressure of 80 psig. (ANSYS flat model)	2.10.6-13 through 2.10.6-17
BC-1 C	Internal pressure of 80 psig. (ANSYS corner model)	2.10.6-18 through 2.10.6-22
BC-2 F	30-ft end drop, normalized to 10g, drop angle 90°. (ANSYS flat model)	2.10.6-23 through 2.10.6-27
BC-2 C	30-ft end drop, normalized to 10g, drop angle 90°. (ANSYS corner model)	2.10.6-28 through 2.10.6-32
BC-3 F	30-ft side drop, drop angle 0°. (ANSYS flat model)	2.10.6-33 through 2.10.6-37
BC-3 C	30-ft side drop, drop angle 0°. (ANSYS corner model)	2.10.6-38 through 2.10.6-42
BC-4 F	30-ft oblique drop, normalized to 10g,drop angle 0°. (ANSYS flat model)	2.10.6-43 through 2.10.6-47
BC-4 C	30-ft oblique drop, normalized to 10g,drop angle 0°. (ANSYS corner model)	2.10.6-48 through 2.10.6-52
BC-5 F	External pressure of 290 psig. (ANSYS flat model)	2.10.6-53 through 2.10.6-57
BC-5 C	External pressure of 290 psig. (ANSYS corner model)	2.10.6-58 through 2.10.6-62

TABLE 2.10.6-13
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE INTERNAL PRESSURE, 80 psi, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	1383	0.25	0.06	2.00	0.04	0.46	–0.04
	Middle	1390	0.65	–0.01	0.64	0.04	0.26	0.03
	Outside	1397	1.10	–0.04	–0.70	0.04	0.18	0.11
2	Inside	1417	0.92	–0.01	0.91	–0.20	0.15	–0.54
	Middle	1419	0.17	–0.03	0.20	–0.08	0.06	0.07
	Outside	1421	–0.44	–0.01	–0.46	0.01	–0.04	0.69
3	Inside	1466	0.71	0.71	0.31	–0.75	–0.04	–0.04
	Middle	1465	0.07	0.07	–0.07	–0.02	–0.06	–0.06
	Outside	1464	–0.41	–0.41	–0.37	0.51	–0.06	–0.06
4	Inside	9981	–0.01	0.92	0.91	–0.20	–0.54	0.15
	Middle	9983	–0.03	0.17	0.20	–0.08	0.07	0.06
	Outside	9985	–0.01	–0.44	–0.46	0.01	0.69	–0.04
5	Inside	9947	0.06	0.25	2.00	0.00	0.00	0.46
	Middle	9954	–0.01	0.65	0.64	0.00	0.00	0.26
	Outside	9961	–0.04	1.10	–0.70	0.00	0.00	0.18
6	Inside	27109	–0.01	0.92	0.91	0.20	0.54	0.15
	Middle	27111	–0.03	0.17	0.20	0.08	–0.07	0.06
	Outside	27113	–0.01	–0.44	–0.46	–0.01	–0.69	–0.04
7	Inside	18594	0.71	0.71	0.31	0.75	0.04	–0.04
	Middle	18593	0.07	0.07	–0.07	0.02	0.06	–0.06
	Outside	18592	–0.41	–0.41	–0.37	–0.51	0.06	–0.06
8	Inside	18545	0.92	–0.01	0.91	0.20	–0.15	–0.54
	Middle	18547	0.17	–0.03	0.20	0.08	–0.06	0.07
	Outside	18549	–0.44	–0.01	–0.46	–0.01	0.04	0.69
9	Inside	18511	0.25	0.06	2.00	–0.04	–0.46	–0.04
	Middle	18518	0.65	–0.01	0.64	–0.04	–0.26	0.03
	Outside	18525	1.10	–0.04	–0.70	–0.04	–0.18	0.11

TABLE 2.10.6-14
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE INTERNAL PRESSURE, 80 psi, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2748	–3.05	–0.07	–1.36	–0.02	0.02	–0.03
	Middle	2755	0.66	–0.01	0.38	–0.03	0.03	0.01
	Outside	2762	4.35	0.06	2.11	–0.07	0.00	0.05
2	Inside	2965	2.52	0.01	0.70	–0.51	–0.03	–0.33
	Middle	2967	0.55	–0.11	0.23	–0.36	–0.06	0.06
	Outside	2969	–0.92	–0.20	–0.08	–0.16	0.03	0.40
3	Inside	3053	2.78	2.78	1.69	–2.85	–0.04	–0.04
	Middle	3052	0.28	0.28	0.18	–0.24	–0.03	–0.03
	Outside	3051	–1.52	–1.52	–0.92	1.64	–0.03	–0.03
4	Inside	11529	0.01	2.52	0.70	–0.51	–0.33	–0.03
	Middle	11531	–0.11	0.55	0.23	–0.36	0.06	–0.06
	Outside	11533	–0.20	–0.92	–0.08	–0.16	0.40	0.03
5	Inside	11312	–0.07	–3.05	–1.36	0.00	0.00	0.02
	Middle	11319	–0.01	0.66	0.38	0.00	0.00	0.03
	Outside	11326	0.06	4.35	2.11	0.00	0.00	0.00
6	Inside	28657	0.01	2.52	0.70	0.51	0.33	–0.03
	Middle	28659	–0.11	0.55	0.23	0.36	–0.06	–0.06
	Outside	28661	–0.20	–0.92	–0.08	0.16	–0.40	0.03
7	Inside	20181	2.78	2.78	1.69	2.85	0.04	–0.04
	Middle	20180	0.28	0.28	0.18	0.24	0.03	–0.03
	Outside	20179	–1.52	–1.52	–0.92	–1.64	0.03	–0.03
8	Inside	20093	2.52	0.01	0.70	0.51	0.03	–0.33
	Middle	20095	0.55	–0.11	0.23	0.36	0.06	0.06
	Outside	20097	–0.92	–0.20	–0.08	0.16	–0.03	0.40
9	Inside	19876	–3.05	–0.07	–1.36	0.02	–0.02	–0.03
	Middle	19883	0.66	–0.01	0.38	0.03	–0.03	0.01
	Outside	19890	4.35	0.06	2.11	0.07	0.00	0.05

TABLE 2.10.6-15
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE INTERNAL PRESSURE, 80 psi, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2937	–3.47	–0.05	–0.96	–0.03	0.00	0.00
	Middle	2944	0.76	–0.04	0.31	–0.03	0.00	0.00
	Outside	2951	4.99	–0.03	1.58	–0.03	0.00	0.00
2	Inside	3019	3.10	0.04	1.03	–0.60	0.00	0.01
	Middle	3021	0.60	0.04	0.28	–0.40	0.00	0.00
	Outside	3023	–1.32	0.06	–0.28	–0.25	0.00	0.00
3	Inside	3188	3.16	3.16	1.97	–3.25	0.00	0.00
	Middle	3187	0.23	0.23	0.24	–0.22	0.00	0.00
	Outside	3186	–1.82	–1.82	–0.98	1.92	0.00	0.00
4	Inside	11583	0.04	3.10	1.03	–0.60	0.01	0.00
	Middle	11585	0.04	0.60	0.28	–0.40	0.00	0.00
	Outside	11587	0.06	–1.32	–0.28	–0.25	0.00	0.00
5	Inside	11501	–0.05	–3.47	–0.96	0.00	0.00	0.00
	Middle	11508	–0.04	0.76	0.31	0.00	0.00	0.00
	Outside	11515	–0.03	4.99	1.58	0.00	0.00	0.00
6	Inside	28711	0.04	3.10	1.03	0.60	–0.01	0.00
	Middle	28713	0.04	0.60	0.28	0.40	0.00	0.00
	Outside	28715	0.06	–1.32	–0.28	0.25	0.00	0.00
7	Inside	20316	3.16	3.16	1.97	3.25	0.00	0.00
	Middle	20315	0.23	0.23	0.24	0.22	0.00	0.00
	Outside	20314	–1.82	–1.82	–0.98	–1.92	0.00	0.00
8	Inside	20147	3.10	0.04	1.03	0.60	0.00	0.01
	Middle	20149	0.60	0.04	0.28	0.40	0.00	0.00
	Outside	20151	–1.32	0.06	–0.28	0.25	0.00	0.00
9	Inside	20065	–3.47	–0.05	–0.96	0.03	0.00	0.00
	Middle	20072	0.76	–0.04	0.31	0.03	0.00	0.00
	Outside	20079	4.99	–0.03	1.58	0.03	0.00	0.00

TABLE 2.10.6-16
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE INTERNAL PRESSURE, 80 psi, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3399	–3.47	–0.05	–0.96	–0.03	0.00	0.00
	Middle	3406	0.76	–0.04	0.31	–0.03	0.00	0.00
	Outside	3413	4.99	–0.03	1.58	–0.03	0.00	0.00
2	Inside	3481	3.10	0.04	1.03	–0.60	0.00	–0.01
	Middle	3483	0.60	0.04	0.28	–0.40	0.00	0.00
	Outside	3485	–1.32	0.06	–0.28	–0.25	0.00	0.00
3	Inside	3650	3.15	3.15	1.97	–3.25	0.00	0.00
	Middle	3649	0.23	0.23	0.24	–0.22	0.00	0.00
	Outside	3648	–1.82	–1.82	–0.98	1.92	0.00	0.00
4	Inside	12045	0.04	3.10	1.03	–0.60	–0.01	0.00
	Middle	12047	0.04	0.60	0.28	–0.40	0.00	0.00
	Outside	12049	0.06	–1.32	–0.28	–0.25	0.00	0.00
5	Inside	11963	–0.05	–3.47	–0.96	0.00	0.00	0.00
	Middle	11970	–0.04	0.76	0.31	0.00	0.00	0.00
	Outside	11977	–0.03	4.99	1.58	0.00	0.00	0.00
6	Inside	29173	0.04	3.10	1.03	0.60	0.01	0.00
	Middle	29175	0.04	0.60	0.28	0.40	0.00	0.00
	Outside	29177	0.06	–1.32	–0.28	0.25	0.00	0.00
7	Inside	20778	3.15	3.15	1.97	3.25	0.00	0.00
	Middle	20777	0.23	0.23	0.24	0.22	0.00	0.00
	Outside	20776	–1.82	–1.82	–0.98	–1.92	0.00	0.00
8	Inside	20609	3.10	0.04	1.03	0.60	0.00	–0.01
	Middle	20611	0.60	0.04	0.28	0.40	0.00	0.00
	Outside	20613	–1.32	0.06	–0.28	0.25	0.00	0.00
9	Inside	20527	–3.47	–0.05	–0.96	0.03	0.00	0.00
	Middle	20534	0.76	–0.04	0.31	0.03	0.00	0.00
	Outside	20541	4.99	–0.03	1.58	0.03	0.00	0.00

TABLE 2.10.6-17
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE INTERNAL PRESSURE, 80 psi, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3861	–3.48	–0.05	–0.97	–0.03	0.00	0.00
	Middle	3868	0.75	–0.04	0.31	–0.03	0.00	0.00
	Outside	3875	4.98	–0.03	1.58	–0.03	0.00	0.00
2	Inside	3943	3.09	0.04	1.02	–0.60	0.00	0.00
	Middle	3945	0.59	0.04	0.28	–0.40	0.00	0.00
	Outside	3947	–1.32	0.06	–0.28	–0.25	0.00	0.00
3	Inside	4112	3.14	3.14	1.94	–3.27	0.00	0.00
	Middle	4111	0.23	0.23	0.25	–0.23	0.00	0.00
	Outside	4110	–1.83	–1.83	–0.95	1.92	0.00	0.00
4	Inside	12507	0.04	3.09	1.02	–0.60	0.00	0.00
	Middle	12509	0.04	0.59	0.28	–0.40	0.00	0.00
	Outside	12511	0.06	–1.32	–0.28	–0.25	0.00	0.00
5	Inside	12425	–0.05	–3.48	–0.97	0.00	0.00	0.00
	Middle	12432	–0.04	0.75	0.31	0.00	0.00	0.00
	Outside	12439	–0.03	4.98	1.58	0.00	0.00	0.00
6	Inside	29635	0.04	3.09	1.02	0.60	0.00	0.00
	Middle	29637	0.04	0.59	0.28	0.40	0.00	0.00
	Outside	29639	0.06	–1.32	–0.28	0.25	0.00	0.00
7	Inside	21240	3.14	3.14	1.94	3.27	0.00	0.00
	Middle	21239	0.23	0.23	0.25	0.23	0.00	0.00
	Outside	21238	–1.83	–1.83	–0.95	–1.92	0.00	0.00
8	Inside	21071	3.09	0.04	1.02	0.60	0.00	0.00
	Middle	21073	0.59	0.04	0.28	0.40	0.00	0.00
	Outside	21075	–1.32	0.06	–0.28	0.25	0.00	0.00
9	Inside	20989	–3.48	–0.05	–0.97	0.03	0.00	0.00
	Middle	20996	0.75	–0.04	0.31	0.03	0.00	0.00
	Outside	21003	4.98	–0.03	1.58	0.03	0.00	0.00

TABLE 2.10.6-18
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
BASE CASE FOR INNER PRESSURE, 80 psi, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	10030	1.45	–0.04	0.31	–0.17	–0.06	0.05
	Middle	10029	0.08	0.05	–0.07	–0.04	–0.08	–0.03
	Outside	10028	–0.92	0.09	–0.37	0.07	–0.08	–0.09
4	Inside	9981	0.65	0.26	0.91	–0.46	–0.28	0.49
	Middle	9983	0.15	–0.01	0.20	–0.10	0.09	0.00
	Outside	9985	–0.23	–0.22	–0.46	0.21	0.46	–0.51
5	Inside	1383	0.16	0.16	2.00	–0.10	0.33	0.33
	Middle	1390	0.32	0.32	0.64	–0.33	0.19	0.19
	Outside	1397	0.53	0.53	–0.70	–0.57	0.13	0.13
6	Inside	1417	0.26	0.65	0.91	–0.46	0.49	–0.28
	Middle	1419	–0.01	0.15	0.20	–0.10	0.00	0.09
	Outside	1421	–0.22	–0.23	–0.46	0.21	–0.51	0.46
7	Inside	1466	–0.04	1.45	0.31	0.00	0.00	–0.06
	Middle	1465	0.05	0.08	–0.07	0.00	0.00	–0.08
	Outside	1464	0.09	–0.92	–0.37	0.00	0.00	–0.08
8	Inside	18545	0.26	0.65	0.91	0.46	–0.49	–0.28
	Middle	18547	–0.01	0.15	0.20	0.10	0.00	0.09
	Outside	18549	–0.22	–0.23	–0.46	–0.21	0.51	0.46
9	Inside	18511	0.16	0.16	2.00	0.10	–0.33	0.33
	Middle	18518	0.32	0.32	0.64	0.33	–0.19	0.19
	Outside	18525	0.53	0.53	–0.70	0.57	–0.13	0.13
10	Inside	27109	0.65	0.26	0.91	0.46	0.28	0.49
	Middle	27111	0.15	–0.01	0.20	0.10	–0.09	0.00
	Outside	27113	–0.23	–0.22	–0.46	–0.21	–0.46	–0.51
11	Inside	27158	1.45	–0.04	0.31	0.17	0.06	0.05
	Middle	27157	0.08	0.05	–0.07	0.04	0.08	–0.03
	Outside	27156	–0.92	0.09	–0.37	–0.07	0.08	–0.09

TABLE 2.10.6-19
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
BASE CASE FOR INNER PRESSURE, 80 psi, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11617	5.63	–0.07	1.69	–0.58	–0.06	0.03
	Middle	11616	0.52	0.04	0.18	–0.05	–0.04	–0.02
	Outside	11615	–3.16	0.12	–0.92	0.32	–0.04	–0.05
4	Inside	11529	1.78	0.76	0.70	–1.26	–0.26	0.21
	Middle	11531	0.58	–0.14	0.23	–0.33	0.00	–0.09
	Outside	11533	–0.40	–0.72	–0.08	0.36	0.31	–0.26
5	Inside	2748	–1.56	–1.56	–1.36	1.49	0.02	0.02
	Middle	2755	0.33	0.33	0.38	–0.33	0.02	0.02
	Outside	2762	2.20	2.20	2.11	–2.15	0.00	0.00
6	Inside	2965	0.76	1.78	0.70	–1.26	0.21	–0.26
	Middle	2967	–0.14	0.58	0.23	–0.33	–0.09	0.00
	Outside	2969	–0.72	–0.40	–0.08	0.36	–0.26	0.31
7	Inside	3053	–0.07	5.63	1.69	0.00	0.00	–0.06
	Middle	3052	0.04	0.52	0.18	0.00	0.00	–0.04
	Outside	3051	0.12	–3.16	–0.92	0.00	0.00	–0.04
8	Inside	20093	0.76	1.78	0.70	1.26	–0.21	–0.26
	Middle	20095	–0.14	0.58	0.23	0.33	0.09	0.00
	Outside	20097	–0.72	–0.40	–0.08	–0.36	0.26	0.31
9	Inside	19876	–1.56	–1.56	–1.36	–1.49	–0.02	0.02
	Middle	19883	0.33	0.33	0.38	0.33	–0.02	0.02
	Outside	19890	2.20	2.20	2.11	2.15	0.00	0.00
10	Inside	28657	1.78	0.76	0.70	1.26	0.26	0.21
	Middle	28659	0.58	–0.14	0.23	0.33	0.00	–0.09
	Outside	28661	–0.40	–0.72	–0.08	–0.36	–0.31	–0.26
11	Inside	28745	5.63	–0.07	1.69	0.58	0.06	0.03
	Middle	28744	0.52	0.04	0.18	0.05	0.04	–0.02
	Outside	28743	–3.16	0.12	–0.92	–0.32	0.04	–0.05

TABLE 2.10.6-20
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
BASE CASE FOR INNER PRESSURE, 80 psi, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11752	6.41	–0.10	1.97	–0.69	0.00	0.00
	Middle	11751	0.46	0.01	0.24	–0.06	0.00	0.00
	Outside	11750	–3.75	0.10	–0.98	0.39	0.00	0.00
4	Inside	11583	2.17	0.97	1.03	–1.53	0.01	–0.01
	Middle	11585	0.72	–0.08	0.28	–0.28	0.00	0.00
	Outside	11587	–0.38	–0.87	–0.28	0.69	0.00	0.00
5	Inside	2937	–1.76	–1.76	–0.96	1.71	0.00	0.00
	Middle	2944	0.36	0.36	0.31	–0.40	0.00	0.00
	Outside	2951	2.48	2.48	1.58	–2.51	0.00	0.00
6	Inside	3019	0.97	2.17	1.03	–1.53	–0.01	0.01
	Middle	3021	–0.08	0.72	0.28	–0.28	0.00	0.00
	Outside	3023	–0.87	–0.38	–0.28	0.69	0.00	0.00
7	Inside	3188	–0.10	6.41	1.97	0.00	0.00	0.00
	Middle	3187	0.01	0.46	0.24	0.00	0.00	0.00
	Outside	3186	0.10	–3.75	–0.98	0.00	0.00	0.00
8	Inside	20147	0.97	2.17	1.03	1.53	0.01	0.01
	Middle	20149	–0.08	0.72	0.28	0.28	0.00	0.00
	Outside	20151	–0.87	–0.38	–0.28	–0.69	0.00	0.00
9	Inside	20065	–1.76	–1.76	–0.96	–1.71	0.00	0.00
	Middle	20072	0.36	0.36	0.31	0.40	0.00	0.00
	Outside	20079	2.48	2.48	1.58	2.51	0.00	0.00
10	Inside	28711	2.17	0.97	1.03	1.53	–0.01	–0.01
	Middle	28713	0.72	–0.08	0.28	0.28	0.00	0.00
	Outside	28715	–0.38	–0.87	–0.28	–0.69	0.00	0.00
11	Inside	28880	6.41	–0.10	1.97	0.69	0.00	0.00
	Middle	28879	0.46	0.01	0.24	0.06	0.00	0.00
	Outside	28878	–3.75	0.10	–0.98	–0.39	0.00	0.00

TABLE 2.10.6-21
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
BASE CASE FOR INNER PRESSURE, 80 psi, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12214	6.41	–0.10	1.97	–0.69	0.00	0.00
	Middle	12213	0.46	0.01	0.24	–0.06	0.00	0.00
	Outside	12212	–3.74	0.10	–0.98	0.39	0.00	0.00
4	Inside	12045	2.17	0.97	1.03	–1.53	–0.01	0.01
	Middle	12047	0.72	–0.08	0.28	–0.28	0.00	0.00
	Outside	12049	–0.38	–0.87	–0.28	0.69	0.00	0.00
5	Inside	3399	–1.76	–1.76	–0.96	1.71	0.00	0.00
	Middle	3406	0.36	0.36	0.31	–0.40	0.00	0.00
	Outside	3413	2.48	2.48	1.58	–2.51	0.00	0.00
6	Inside	3481	0.97	2.17	1.03	–1.53	0.01	–0.01
	Middle	3483	–0.08	0.72	0.28	–0.28	0.00	0.00
	Outside	3485	–0.87	–0.38	–0.28	0.69	0.00	0.00
7	Inside	3650	–0.10	6.41	1.97	0.00	0.00	0.00
	Middle	3649	0.01	0.46	0.24	0.00	0.00	0.00
	Outside	3648	0.10	–3.74	–0.98	0.00	0.00	0.00
8	Inside	20609	0.97	2.17	1.03	1.53	–0.01	–0.01
	Middle	20611	–0.08	0.72	0.28	0.28	0.00	0.00
	Outside	20613	–0.87	–0.38	–0.28	–0.69	0.00	0.00
9	Inside	20527	–1.76	–1.76	–0.96	–1.71	0.00	0.00
	Middle	20534	0.36	0.36	0.31	0.40	0.00	0.00
	Outside	20541	2.48	2.48	1.58	2.51	0.00	0.00
10	Inside	29173	2.17	0.97	1.03	1.53	0.01	0.01
	Middle	29175	0.72	–0.08	0.28	0.28	0.00	0.00
	Outside	29177	–0.38	–0.87	–0.28	–0.69	0.00	0.00
11	Inside	29342	6.41	–0.10	1.97	0.69	0.00	0.00
	Middle	29341	0.46	0.01	0.24	0.06	0.00	0.00
	Outside	29340	–3.74	0.10	–0.98	–0.39	0.00	0.00

TABLE 2.10.6-22
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
BASE CASE FOR INNER PRESSURE, 80 psi, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12676	6.41	–0.13	1.94	–0.70	0.01	0.00
	Middle	12675	0.46	0.00	0.25	–0.07	0.00	0.00
	Outside	12674	–3.75	0.10	–0.95	0.38	0.00	0.00
4	Inside	12507	2.17	0.97	1.02	–1.52	0.00	0.00
	Middle	12509	0.72	–0.08	0.28	–0.28	0.00	0.00
	Outside	12511	–0.38	–0.87	–0.28	0.69	0.00	0.00
5	Inside	3861	–1.77	–1.77	–0.97	1.72	0.00	0.00
	Middle	3868	0.35	0.35	0.31	–0.39	0.00	0.00
	Outside	3875	2.48	2.48	1.58	–2.51	0.00	0.00
6	Inside	3943	0.97	2.17	1.02	–1.52	0.00	0.00
	Middle	3945	–0.08	0.72	0.28	–0.28	0.00	0.00
	Outside	3947	–0.87	–0.38	–0.28	0.69	0.00	0.00
7	Inside	4112	–0.13	6.41	1.94	0.00	0.00	0.01
	Middle	4111	0.00	0.46	0.25	0.00	0.00	0.00
	Outside	4110	0.10	–3.75	–0.95	0.00	0.00	0.00
8	Inside	21071	0.97	2.17	1.02	1.52	0.00	0.00
	Middle	21073	–0.08	0.72	0.28	0.28	0.00	0.00
	Outside	21075	–0.87	–0.38	–0.28	–0.69	0.00	0.00
9	Inside	20989	–1.77	–1.77	–0.97	–1.72	0.00	0.00
	Middle	20996	0.35	0.35	0.31	0.39	0.00	0.00
	Outside	21003	2.48	2.48	1.58	2.51	0.00	0.00
10	Inside	29635	2.17	0.97	1.02	1.52	0.00	0.00
	Middle	29637	0.72	–0.08	0.28	0.28	0.00	0.00
	Outside	29639	–0.38	–0.87	–0.28	–0.69	0.00	0.00
11	Inside	29804	6.41	–0.13	1.94	0.70	–0.01	0.00
	Middle	29803	0.46	0.00	0.25	0.07	0.00	0.00
	Outside	29802	–3.75	0.10	–0.95	–0.38	0.00	0.00

TABLE 2.10.6-23
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE END DROP, 10g, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	1383	0.56	0.27	2.11	0.11	0.43	–0.01
	Middle	1390	0.13	0.12	0.76	0.03	0.17	0.03
	Outside	1397	–0.22	0.02	–0.55	0.02	0.03	0.39
2	Inside	1417	0.05	–0.05	1.42	0.11	0.31	0.38
	Middle	1419	–0.35	–0.06	0.38	0.11	0.08	0.12
	Outside	1421	–0.71	–0.05	–0.66	0.12	0.00	–0.09
3	Inside	1466	–0.43	–0.43	0.54	0.31	0.24	0.24
	Middle	1465	–0.24	–0.24	–0.04	0.15	0.30	0.30
	Outside	1464	–0.09	–0.09	–0.60	0.05	0.40	0.40
4	Inside	9981	–0.05	0.05	1.42	0.11	0.38	0.31
	Middle	9983	–0.06	–0.35	0.38	0.11	0.12	0.08
	Outside	9985	–0.05	–0.71	–0.66	0.12	–0.09	0.00
5	Inside	9947	0.27	0.56	2.11	0.00	0.00	0.43
	Middle	9954	0.12	0.13	0.76	0.00	0.00	0.17
	Outside	9961	0.02	–0.22	–0.55	0.00	0.00	0.03
6	Inside	27109	–0.05	0.05	1.42	–0.11	–0.38	0.31
	Middle	27111	–0.06	–0.35	0.38	–0.11	–0.12	0.08
	Outside	27113	–0.05	–0.71	–0.66	–0.12	0.09	0.00
7	Inside	18594	–0.43	–0.43	0.54	–0.31	–0.24	0.24
	Middle	18593	–0.24	–0.24	–0.04	–0.15	–0.30	0.30
	Outside	18592	–0.09	–0.09	–0.60	–0.05	–0.40	0.40
8	Inside	18545	0.05	–0.05	1.42	–0.11	–0.31	0.38
	Middle	18547	–0.35	–0.06	0.38	–0.11	–0.08	0.12
	Outside	18549	–0.71	–0.05	–0.66	–0.12	0.00	–0.09
9	Inside	18511	0.56	0.27	2.11	–0.11	–0.43	–0.01
	Middle	18518	0.13	0.12	0.76	–0.03	–0.17	0.03
	Outside	18525	–0.22	0.02	–0.55	–0.02	–0.03	0.39

TABLE 2.10.6-24
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE END DROP, 10g, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2748	–0.24	–0.15	–0.85	–0.07	0.00	0.01
	Middle	2755	–0.21	–0.13	–0.95	–0.06	0.01	0.02
	Outside	2762	–0.11	0.02	–0.87	–0.05	0.02	0.03
2	Inside	2965	–0.19	0.00	–0.84	0.05	0.01	0.02
	Middle	2967	–0.19	–0.03	–0.93	0.04	0.01	0.06
	Outside	2969	–0.08	0.08	–0.81	0.03	0.02	0.09
3	Inside	3053	–0.25	–0.25	–0.99	0.20	0.03	0.03
	Middle	3052	–0.05	–0.05	–0.93	0.04	0.04	0.04
	Outside	3051	–0.01	–0.01	–1.25	–0.08	0.05	0.05
4	Inside	11529	0.00	–0.19	–0.84	0.05	0.02	0.01
	Middle	11531	–0.03	–0.19	–0.93	0.04	0.06	0.01
	Outside	11533	0.08	–0.08	–0.81	0.03	0.09	0.02
5	Inside	11312	–0.15	–0.24	–0.85	0.00	0.00	0.00
	Middle	11319	–0.13	–0.21	–0.95	0.00	0.00	0.01
	Outside	11326	0.02	–0.11	–0.87	0.00	0.00	0.02
6	Inside	28657	0.00	–0.19	–0.84	–0.05	–0.02	0.01
	Middle	28659	–0.03	–0.19	–0.93	–0.04	–0.06	0.01
	Outside	28661	0.08	–0.08	–0.81	–0.03	–0.09	0.02
7	Inside	20181	–0.25	–0.25	–0.99	–0.20	–0.03	0.03
	Middle	20180	–0.05	–0.05	–0.93	–0.04	–0.04	0.04
	Outside	20179	–0.01	–0.01	–1.25	0.08	–0.05	0.05
8	Inside	20093	–0.19	0.00	–0.84	–0.05	–0.01	0.02
	Middle	20095	–0.19	–0.03	–0.93	–0.04	–0.01	0.06
	Outside	20097	–0.08	0.08	–0.81	–0.03	–0.02	0.09
9	Inside	19876	–0.24	–0.15	–0.85	0.07	0.00	0.01
	Middle	19883	–0.21	–0.13	–0.95	0.06	–0.01	0.02
	Outside	19890	–0.11	0.02	–0.87	0.05	–0.02	0.03

TABLE 2.10.6-25
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE END DROP, 10g, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2937	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	2944	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	2951	0.00	0.00	–0.81	0.00	0.00	0.00
2	Inside	3019	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	3021	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	3023	0.00	0.00	–0.81	0.00	0.00	0.00
3	Inside	3188	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	3187	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	3186	0.00	0.00	–0.81	0.00	0.00	0.00
4	Inside	11583	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	11585	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	11587	0.00	0.00	–0.81	0.00	0.00	0.00
5	Inside	11501	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	11508	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	11515	0.00	0.00	–0.81	0.00	0.00	0.00
6	Inside	28711	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	28713	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	28715	0.00	0.00	–0.81	0.00	0.00	0.00
7	Inside	20316	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	20315	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	20314	0.00	0.00	–0.81	0.00	0.00	0.00
8	Inside	20147	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	20149	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	20151	0.00	0.00	–0.81	0.00	0.00	0.00
9	Inside	20065	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	20072	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	20079	0.00	0.00	–0.81	0.00	0.00	0.00

TABLE 2.10.6-26
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE END DROP, 10g, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3399	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	3406	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	3413	0.00	0.00	–0.75	0.00	0.00	0.00
2	Inside	3481	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	3483	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	3485	0.00	0.00	–0.75	0.00	0.00	0.00
3	Inside	3650	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	3649	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	3648	0.00	0.00	–0.75	0.00	0.00	0.00
4	Inside	12045	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	12047	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	12049	0.00	0.00	–0.75	0.00	0.00	0.00
5	Inside	11963	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	11970	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	11977	0.00	0.00	–0.75	0.00	0.00	0.00
6	Inside	29173	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	29175	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	29177	0.00	0.00	–0.75	0.00	0.00	0.00
7	Inside	20778	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	20777	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	20776	0.00	0.00	–0.75	0.00	0.00	0.00
8	Inside	20609	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	20611	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	20613	0.00	0.00	–0.75	0.00	0.00	0.00
9	Inside	20527	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	20534	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	20541	0.00	0.00	–0.75	0.00	0.00	0.00

TABLE 2.10.6-27
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE END DROP, 10g, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3861	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	3868	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	3875	0.00	0.00	–0.62	0.00	0.00	0.00
2	Inside	3943	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	3945	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	3947	0.00	0.00	–0.62	0.00	0.00	0.00
3	Inside	4112	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	4111	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	4110	0.00	0.00	–0.62	0.00	0.00	0.00
4	Inside	12507	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	12509	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	12511	0.00	0.00	–0.62	0.00	0.00	0.00
5	Inside	12425	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	12432	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	12439	0.00	0.00	–0.62	0.00	0.00	0.00
6	Inside	29635	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	29637	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	29639	0.00	0.00	–0.62	0.00	0.00	0.00
7	Inside	21240	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	21239	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	21238	0.00	0.00	–0.62	0.00	0.00	0.00
8	Inside	21071	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	21073	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	21075	0.00	0.00	–0.62	0.00	0.00	0.00
9	Inside	20989	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	20996	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	21003	0.00	0.00	–0.62	0.00	0.00	0.00

TABLE 2.10.6-28
CONTAINMENT WALL STRESSES (ksi),
CORNER MODEL, END DROP BASE CASE, 10g, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	10030	–0.73	–0.12	0.54	0.01	0.34	–0.03
	Middle	10029	–0.39	–0.09	–0.04	0.00	0.43	–0.03
	Outside	10028	–0.14	–0.04	–0.60	–0.02	0.57	–0.33
4	Inside	9981	–0.11	0.12	1.42	–0.05	0.49	–0.05
	Middle	9983	–0.31	–0.10	0.38	0.14	0.14	–0.03
	Outside	9985	–0.50	–0.27	–0.66	0.33	–0.06	0.07
5	Inside	1383	0.41	0.41	2.11	–0.14	0.30	0.30
	Middle	1390	0.12	0.12	0.76	–0.01	0.12	0.12
	Outside	1397	–0.10	–0.10	–0.55	0.12	0.02	0.02
6	Inside	1417	0.12	–0.11	1.42	–0.05	–0.05	0.49
	Middle	1419	–0.10	–0.31	0.38	0.14	–0.03	0.14
	Outside	1421	–0.27	–0.50	–0.66	0.33	0.07	–0.06
7	Inside	1466	–0.12	–0.73	0.54	0.00	0.00	0.34
	Middle	1465	–0.09	–0.39	–0.04	0.00	0.00	0.43
	Outside	1464	–0.04	–0.14	–0.60	0.00	0.00	0.57
8	Inside	18545	0.12	–0.11	1.42	0.05	0.05	0.49
	Middle	18547	–0.10	–0.31	0.38	–0.14	0.03	0.14
	Outside	18549	–0.27	–0.50	–0.66	–0.33	–0.07	–0.06
9	Inside	18511	0.41	0.41	2.11	0.14	–0.30	0.30
	Middle	18518	0.12	0.12	0.76	0.01	–0.12	0.12
	Outside	18525	–0.10	–0.10	–0.55	–0.12	–0.02	0.02
10	Inside	27109	–0.11	0.12	1.42	0.05	–0.49	–0.05
	Middle	27111	–0.31	–0.10	0.38	–0.14	–0.14	–0.03
	Outside	27113	–0.50	–0.27	–0.66	–0.33	0.06	0.07
11	Inside	27158	–0.73	–0.12	0.54	–0.01	–0.34	–0.03
	Middle	27157	–0.39	–0.09	–0.04	0.00	–0.43	–0.03
	Outside	27156	–0.14	–0.04	–0.60	0.02	–0.57	–0.33

TABLE 2.10.2–29
CONTAINMENT WALL STRESSES (ksi),
CORNER MODEL, END DROP BASE CASE, 10g, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11617	–0.46	–0.05	–0.99	0.05	0.04	0.00
	Middle	11616	–0.09	–0.02	–0.93	0.02	0.06	–0.03
	Outside	11615	0.07	–0.09	–1.25	0.00	0.07	–0.06
4	Inside	11529	–0.14	–0.05	–0.84	0.09	0.03	–0.01
	Middle	11531	–0.15	–0.07	–0.93	0.08	0.05	–0.03
	Outside	11533	–0.03	0.04	–0.81	0.08	0.08	–0.05
5	Inside	2748	–0.20	–0.20	–0.85	0.04	0.00	0.00
	Middle	2755	–0.17	–0.17	–0.95	0.04	0.01	0.01
	Outside	2762	–0.05	–0.05	–0.87	0.07	0.01	0.01
6	Inside	2965	–0.05	–0.14	–0.84	0.09	–0.01	0.03
	Middle	2967	–0.07	–0.15	–0.93	0.08	–0.03	0.05
	Outside	2969	0.04	–0.03	–0.81	0.08	–0.05	0.08
7	Inside	3053	–0.05	–0.46	–0.99	0.00	0.00	0.04
	Middle	3052	–0.02	–0.09	–0.93	0.00	0.00	0.06
	Outside	3051	–0.09	0.07	–1.25	0.00	0.00	0.07
8	Inside	20093	–0.05	–0.14	–0.84	–0.09	0.01	0.03
	Middle	20095	–0.07	–0.15	–0.93	–0.08	0.03	0.05
	Outside	20097	0.04	–0.03	–0.81	–0.08	0.05	0.08
9	Inside	19876	–0.20	–0.20	–0.85	–0.04	0.00	0.00
	Middle	19883	–0.17	–0.17	–0.95	–0.04	–0.01	0.01
	Outside	19890	–0.05	–0.05	–0.87	–0.07	–0.01	0.01
10	Inside	28657	–0.14	–0.05	–0.84	–0.09	–0.03	–0.01
	Middle	28659	–0.15	–0.07	–0.93	–0.08	–0.05	–0.03
	Outside	28661	–0.03	0.04	–0.81	–0.08	–0.08	–0.05
11	Inside	28745	–0.46	–0.05	–0.99	–0.05	–0.04	0.00
	Middle	28744	–0.09	–0.02	–0.93	–0.02	–0.06	–0.03
	Outside	28743	0.07	–0.09	–1.25	0.00	–0.07	–0.06

TABLE 2.10.6-30
CONTAINMENT WALL STRESSES (ksi),
CORNER MODEL, END DROP BASE CASE, 10g, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11752	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	11751	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	11750	0.00	0.00	–0.81	0.00	0.00	0.00
4	Inside	11583	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	11585	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	11587	0.00	0.00	–0.81	0.00	0.00	0.00
5	Inside	2937	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	2944	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	2951	0.00	0.00	–0.81	0.00	0.00	0.00
6	Inside	3019	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	3021	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	3023	0.00	0.00	–0.81	0.00	0.00	0.00
7	Inside	3188	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	3187	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	3186	0.00	0.00	–0.81	0.00	0.00	0.00
8	Inside	20147	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	20149	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	20151	0.00	0.00	–0.81	0.00	0.00	0.00
9	Inside	20065	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	20072	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	20079	0.00	0.00	–0.81	0.00	0.00	0.00
10	Inside	28711	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	28713	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	28715	0.00	0.00	–0.81	0.00	0.00	0.00
11	Inside	28880	0.00	0.00	–0.81	0.00	0.00	0.00
	Middle	28879	0.00	0.00	–0.81	0.00	0.00	0.00
	Outside	28878	0.00	0.00	–0.81	0.00	0.00	0.00

TABLE 2.10.6-31
CONTAINMENT WALL STRESSES (ksi),
CORNER MODEL, END DROP BASE CASE, 10g, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12214	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	12213	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	12212	0.00	0.00	–0.75	0.00	0.00	0.00
4	Inside	12045	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	12047	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	12049	0.00	0.00	–0.75	0.00	0.00	0.00
5	Inside	3399	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	3406	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	3413	0.00	0.00	–0.75	0.00	0.00	0.00
6	Inside	3481	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	3483	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	3485	0.00	0.00	–0.75	0.00	0.00	0.00
7	Inside	3650	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	3649	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	3648	0.00	0.00	–0.75	0.00	0.00	0.00
8	Inside	20609	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	20611	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	20613	0.00	0.00	–0.75	0.00	0.00	0.00
9	Inside	20527	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	20534	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	20541	0.00	0.00	–0.75	0.00	0.00	0.00
10	Inside	29173	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	29175	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	29177	0.00	0.00	–0.75	0.00	0.00	0.00
11	Inside	29342	0.00	0.00	–0.75	0.00	0.00	0.00
	Middle	29341	0.00	0.00	–0.75	0.00	0.00	0.00
	Outside	29340	0.00	0.00	–0.75	0.00	0.00	0.00

TABLE 2.10.6-32
CONTAINMENT WALL STRESSES (ksi),
CORNER MODEL, END DROP BASE CASE, 10g, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12676	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	12675	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	12674	0.00	0.00	–0.62	0.00	0.00	0.00
4	Inside	12507	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	12509	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	12511	0.00	0.00	–0.62	0.00	0.00	0.00
5	Inside	3861	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	3868	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	3875	0.00	0.00	–0.62	0.00	0.00	0.00
6	Inside	3943	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	3945	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	3947	0.00	0.00	–0.62	0.00	0.00	0.00
7	Inside	4112	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	4111	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	4110	0.00	0.00	–0.62	0.00	0.00	0.00
8	Inside	21071	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	21073	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	21075	0.00	0.00	–0.62	0.00	0.00	0.00
9	Inside	20989	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	20996	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	21003	0.00	0.00	–0.62	0.00	0.00	0.00
10	Inside	29635	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	29637	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	29639	0.00	0.00	–0.62	0.00	0.00	0.00
11	Inside	29804	0.00	0.00	–0.62	0.00	0.00	0.00
	Middle	29803	0.00	0.00	–0.62	0.00	0.00	0.00
	Outside	29802	0.00	0.00	–0.62	0.00	0.00	0.00

TABLE 2.10.6-33
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR SIDE DROP, 47.7g, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	1383	–0.66	3.59	–1.75	1.05	2.22	–0.25
	Middle	1390	5.63	1.66	–3.10	0.24	1.63	0.51
	Outside	1397	12.47	0.26	–3.94	0.09	1.53	1.17
2	Inside	1417	4.27	0.08	–3.00	–0.65	–0.02	–0.63
	Middle	1419	2.01	–0.11	–4.06	–0.33	–0.27	1.48
	Outside	1421	–0.20	–0.21	–5.49	–0.12	–0.45	3.15
3	Inside	1466	2.98	2.29	–2.28	–2.42	–2.80	2.28
	Middle	1465	0.55	0.17	–2.66	0.23	–2.94	2.49
	Outside	1464	–1.43	–1.34	–2.98	2.10	–3.12	2.78
4	Inside	9981	0.14	2.02	–0.28	–0.96	–6.85	0.58
	Middle	9983	–0.11	–0.52	–0.43	–0.46	–6.11	0.50
	Outside	9985	–0.15	–2.93	–0.61	–0.04	–5.61	0.35
5	Inside	9947	0.02	–2.87	0.54	–0.72	–7.89	0.42
	Middle	9954	–0.16	–0.50	2.17	–0.44	–7.92	0.43
	Outside	9961	–0.33	1.90	3.86	–0.19	–8.18	0.37
6	Inside	27109	–0.02	–4.77	4.20	–0.73	–6.75	0.06
	Middle	27111	0.27	–3.27	4.59	–0.30	–5.04	0.05
	Outside	27113	0.43	–2.08	5.25	–0.11	–3.76	–0.16
7	Inside	18594	–6.73	–6.27	2.53	–5.27	–2.10	–0.80
	Middle	18593	–2.38	–2.30	2.49	0.23	–2.08	–1.03
	Outside	18592	0.72	–0.16	1.92	3.65	–2.05	–1.25
8	Inside	18545	–10.55	–4.96	1.67	–2.64	0.06	4.00
	Middle	18547	–6.22	–2.17	0.20	–1.75	0.18	–1.66
	Outside	18549	–2.35	–0.40	–1.57	–1.10	–0.56	–6.61
9	Inside	18511	2.42	2.51	11.30	–0.78	–0.26	–0.80
	Middle	18518	–10.48	2.63	–0.18	1.02	0.69	–0.14
	Outside	18525	–22.69	3.36	–10.21	1.68	0.80	0.02

TABLE 2.10.6-34
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR SIDE DROP, 47.7g, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2748	–12.83	–1.48	–15.84	–0.61	–0.24	0.44
	Middle	2755	0.89	–0.90	–11.98	–0.58	–0.18	0.36
	Outside	2762	14.22	–0.24	–8.25	–0.63	–0.24	0.34
2	Inside	2965	2.05	–0.05	–10.52	–0.49	–0.13	3.10
	Middle	2967	0.51	–0.15	–12.17	–0.35	–0.23	3.50
	Outside	2969	–0.17	0.26	–13.05	–0.15	–0.12	3.79
3	Inside	3053	3.38	3.58	–7.13	–3.19	–3.41	3.45
	Middle	3052	0.19	0.29	–9.57	0.00	–4.31	4.38
	Outside	3051	–2.15	–2.12	–11.59	2.28	–5.28	5.31
4	Inside	11529	0.04	4.37	–5.11	–0.56	–5.85	0.31
	Middle	11531	–0.26	0.25	–5.83	–0.28	–8.65	0.24
	Outside	11533	–0.40	–3.21	–6.35	0.02	–11.35	0.67
5	Inside	11312	0.03	0.33	–0.93	0.04	–10.06	–0.40
	Middle	11319	–0.01	–0.02	1.41	0.04	–11.02	–0.40
	Outside	11326	–0.04	–0.36	3.73	0.05	–11.96	–0.34
6	Inside	28657	0.12	1.69	6.74	–0.06	–15.34	–0.93
	Middle	28659	–0.23	–0.60	9.15	–0.14	–11.70	–0.81
	Outside	28661	–0.54	–2.36	11.67	–0.11	–8.27	–0.60
7	Inside	20181	–4.98	–4.13	6.23	–4.09	–13.72	–13.96
	Middle	20180	–0.79	0.01	9.83	–0.09	–6.88	–7.10
	Outside	20179	2.40	3.15	13.24	2.73	–1.60	–1.54
8	Inside	20093	–8.96	–0.68	8.71	–1.56	–1.27	–17.96
	Middle	20095	–1.81	0.18	8.68	–1.04	–1.25	–4.93
	Outside	20097	3.18	–0.05	7.35	–0.30	0.11	7.36
9	Inside	19876	5.70	–0.46	21.63	0.04	–2.69	–1.23
	Middle	19883	–3.53	–0.47	8.76	0.09	–2.78	–0.27
	Outside	19890	–13.00	–0.82	–4.71	–0.36	–2.36	0.39

TABLE 2.10.6-35
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR SIDE DROP, 47.7g, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2937	–11.30	–0.27	–27.63	–0.09	0.04	0.22
	Middle	2944	–1.13	–0.17	–26.19	–0.06	0.02	0.25
	Outside	2951	8.99	–0.07	–24.73	–0.05	0.02	0.27
2	Inside	3019	–11.48	–0.74	–28.52	0.51	–0.14	2.92
	Middle	3021	–0.45	–0.50	–26.72	–0.09	–0.15	3.39
	Outside	3023	8.75	–0.29	–25.44	–0.56	–0.16	3.86
3	Inside	3188	–3.45	–2.08	–24.46	2.48	–3.32	3.31
	Middle	3187	–0.59	0.46	–24.12	–0.16	–3.60	3.58
	Outside	3186	1.45	2.23	–24.23	–2.01	–3.91	3.89
4	Inside	11583	0.02	3.84	–15.49	0.28	–5.66	0.30
	Middle	11585	0.06	0.44	–16.88	0.41	–6.33	0.30
	Outside	11587	0.07	–2.58	–18.14	0.52	–7.01	0.31
5	Inside	11501	0.00	16.77	5.01	0.40	–7.02	–0.04
	Middle	11508	0.00	1.61	–0.53	0.40	–7.29	–0.04
	Outside	11515	0.00	–13.55	–6.08	0.40	–7.58	–0.04
6	Inside	28711	0.95	31.96	25.46	2.06	–7.54	–0.38
	Middle	28713	0.71	1.52	15.47	0.27	–5.96	–0.34
	Outside	28715	0.50	–23.73	7.01	–1.12	–4.58	–0.30
7	Inside	20316	9.46	13.08	29.05	10.28	–4.84	–4.82
	Middle	20315	–0.57	2.23	24.06	0.03	–3.17	–3.14
	Outside	20314	–7.58	–5.45	20.90	–7.15	–1.78	–1.75
8	Inside	20147	–10.25	–0.61	21.66	1.55	–0.22	–4.66
	Middle	20149	1.24	–0.43	27.86	1.93	–0.20	–3.03
	Outside	20151	11.64	–0.15	33.74	2.23	–0.17	–1.56
9	Inside	20065	–41.02	–0.48	10.98	0.27	–0.03	–0.31
	Middle	20072	1.51	–0.37	27.14	0.26	–0.04	–0.23
	Outside	20079	43.98	–0.26	43.25	0.26	–0.04	–0.15

TABLE 2.10.6-36
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR SIDE DROP, 47.7g, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3399	–12.79	–0.24	–32.85	–0.08	0.01	0.14
	Middle	3406	–1.27	–0.15	–31.25	–0.05	0.02	0.17
	Outside	3413	10.20	–0.07	–29.69	–0.04	0.01	0.20
2	Inside	3481	–13.32	–0.98	–33.93	0.55	–0.11	2.02
	Middle	3483	–0.44	–0.66	–31.90	–0.15	–0.12	2.34
	Outside	3485	10.30	–0.37	–30.54	–0.69	–0.12	2.67
3	Inside	3650	–3.59	–1.93	–28.73	2.47	–2.42	2.39
	Middle	3649	–0.64	0.62	–28.57	–0.22	–2.47	2.43
	Outside	3648	1.45	2.39	–28.91	–2.09	–2.57	2.53
4	Inside	12045	0.04	5.22	–18.18	0.22	–4.14	0.20
	Middle	12047	0.08	0.62	–19.72	0.42	–4.28	0.20
	Outside	12049	0.10	–3.44	–21.12	0.58	–4.46	0.20
5	Inside	11963	0.00	18.78	5.22	0.40	–4.81	–0.01
	Middle	11970	0.00	1.87	–0.23	0.40	–4.83	–0.01
	Outside	11977	0.00	–15.04	–5.68	0.40	–4.84	–0.01
6	Inside	29173	1.00	33.59	29.15	2.11	–4.58	–0.22
	Middle	29175	0.75	1.58	19.20	0.24	–3.89	–0.20
	Outside	29177	0.52	–25.00	10.89	–1.22	–3.31	–0.18
7	Inside	20778	9.39	13.25	33.34	10.31	–2.78	–2.75
	Middle	20777	–0.68	2.29	28.52	0.00	–2.10	–2.06
	Outside	20776	–7.71	–5.46	25.59	–7.23	–1.55	–1.52
8	Inside	20609	–11.72	–0.64	25.86	1.50	–0.13	–2.51
	Middle	20611	1.08	–0.46	32.14	1.95	–0.12	–1.95
	Outside	20613	12.62	–0.17	38.09	2.30	–0.11	–1.46
9	Inside	20527	–43.22	–0.48	15.69	0.27	–0.01	–0.17
	Middle	20534	1.15	–0.37	31.61	0.26	–0.01	–0.14
	Outside	20541	45.48	–0.26	47.53	0.26	–0.02	–0.12

TABLE 2.10.6-37
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR SIDE DROP, 47.7g, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3861	–14.36	–0.38	–37.37	–0.12	0.00	0.00
	Middle	3868	–1.26	–0.23	–35.52	–0.08	0.00	0.00
	Outside	3875	11.77	–0.10	–33.71	–0.06	0.00	0.00
2	Inside	3943	–14.18	–1.16	–38.19	0.50	0.00	0.01
	Middle	3945	–0.39	–0.78	–36.16	–0.22	0.00	–0.01
	Outside	3947	11.11	–0.43	–34.82	–0.79	0.00	–0.02
3	Inside	4112	–3.29	–1.46	–31.93	2.12	0.00	0.00
	Middle	4111	–0.67	0.72	–32.17	–0.22	0.01	–0.01
	Outside	4110	1.18	2.21	–32.83	–1.85	0.01	–0.01
4	Inside	12507	0.07	6.44	–20.18	0.15	0.01	0.00
	Middle	12509	0.11	0.66	–21.99	0.42	0.01	0.00
	Outside	12511	0.13	–4.38	–23.57	0.63	0.01	0.00
5	Inside	12425	0.00	19.63	5.52	0.39	0.02	0.00
	Middle	12432	0.00	1.92	0.09	0.39	0.01	0.00
	Outside	12439	0.00	–15.80	–5.34	0.39	0.01	0.00
6	Inside	29635	1.01	33.81	31.85	2.09	0.02	0.00
	Middle	29637	0.75	1.57	22.04	0.22	0.01	0.00
	Outside	29639	0.52	–25.21	13.88	–1.25	0.01	0.00
7	Inside	21240	9.27	13.17	36.70	10.23	0.01	0.01
	Middle	21239	–0.69	2.30	32.12	0.01	0.01	0.01
	Outside	21238	–7.64	–5.38	29.40	–7.15	0.01	0.01
8	Inside	21071	–12.14	–0.66	29.34	1.49	0.00	0.01
	Middle	21073	1.12	–0.47	35.79	1.96	0.00	0.01
	Outside	21075	13.03	–0.18	41.86	2.33	0.00	0.01
9	Inside	20989	–43.83	–0.48	19.22	0.27	0.00	0.00
	Middle	20996	1.17	–0.37	35.20	0.26	0.00	0.00
	Outside	21003	46.12	–0.26	51.15	0.26	0.00	0.00

TABLE 2.10.6-38
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
SIDE DROP BASE CASE, 47.7g, (T= 200°F) SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	10030	6.60	0.57	–7.47	–0.80	–0.05	0.58
	Middle	10029	–1.51	0.91	–8.68	0.03	–0.07	0.50
	Outside	10028	–7.85	0.73	–10.59	0.65	0.04	0.48
4	Inside	9981	3.51	2.06	–5.50	–2.42	–1.93	2.69
	Middle	9983	0.13	–0.46	–7.24	0.08	–2.36	2.68
	Outside	9985	–3.09	–2.72	–9.67	2.51	–2.92	3.18
5	Inside	1383	0.72	–0.62	–2.43	0.05	–3.26	3.68
	Middle	1390	2.29	1.27	–1.53	–1.91	–3.65	4.09
	Outside	1397	3.83	3.15	–0.79	–3.82	–4.14	4.58
6	Inside	1417	–4.34	–4.06	–1.33	–1.34	–4.22	4.06
	Middle	1419	–0.47	0.29	1.80	–2.98	–4.98	4.70
	Outside	1421	2.40	3.72	4.51	–3.91	–5.95	5.40
7	Inside	1466	0.16	–0.62	3.50	–0.55	–6.47	0.16
	Middle	1465	0.28	1.70	2.71	–0.20	–5.67	0.01
	Outside	1464	0.60	4.02	2.44	0.28	–5.15	–0.05
8	Inside	18545	–4.97	–5.54	4.55	–0.93	–4.07	–2.18
	Middle	18547	–1.19	–1.55	3.10	0.89	–3.65	–2.66
	Outside	18549	1.65	1.75	1.58	2.29	–3.80	–2.81
9	Inside	18511	2.21	0.71	13.45	–0.77	–1.05	0.83
	Middle	18518	–1.66	–2.86	3.51	–4.07	–1.72	–1.36
	Outside	18525	–4.86	–6.05	–5.16	–7.32	–3.01	–3.08
10	Inside	27109	–6.02	–0.79	6.13	–4.05	–5.34	–5.08
	Middle	27111	–6.66	–2.88	0.45	–5.92	–0.45	–0.56
	Outside	27113	–7.30	–4.05	–4.67	–6.55	3.27	3.69
11	Inside	27158	–18.61	–2.41	1.38	–2.61	–1.89	–0.85
	Middle	27157	–8.22	–5.01	–1.23	–1.86	–1.39	0.04
	Outside	27156	–3.62	–7.04	–5.36	–1.46	–1.07	0.83

TABLE 2.10.6-39
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
SIDE DROP BASE CASE, 47.7g, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11617	6.35	0.30	–14.70	–0.57	0.03	0.26
	Middle	11616	–0.16	0.25	–17.85	0.06	0.05	0.36
	Outside	11615	–4.86	0.16	–20.55	0.52	0.03	0.40
4	Inside	11529	2.64	1.81	–13.86	–2.13	–0.92	1.16
	Middle	11531	0.13	–0.17	–16.42	–0.20	–1.83	1.90
	Outside	11533	–1.68	–1.42	–18.28	1.44	–2.43	2.95
5	Inside	2748	–2.25	–2.40	–8.92	2.44	–2.25	2.29
	Middle	2755	0.50	0.34	–7.65	–0.33	–3.71	3.70
	Outside	2762	3.29	3.14	–6.30	–3.08	–5.15	5.10
6	Inside	2965	–0.05	0.82	–0.04	–0.64	–7.03	5.95
	Middle	2967	–0.08	0.68	0.30	–0.49	–6.91	5.86
	Outside	2969	0.17	0.68	0.83	–0.43	–6.83	5.81
7	Inside	3053	0.12	3.16	3.89	–0.16	–13.53	–0.31
	Middle	3052	0.08	0.66	3.82	–0.19	–10.46	–0.30
	Outside	3051	0.00	–1.03	3.87	–0.21	–8.33	–0.31
8	Inside	20093	–1.81	–2.36	4.10	–1.53	–11.00	–10.25
	Middle	20095	–0.03	–0.17	5.37	0.03	–8.08	–7.25
	Outside	20097	1.34	1.57	6.31	1.27	–5.04	–4.71
9	Inside	19876	0.95	–0.13	12.09	0.74	–9.97	–8.55
	Middle	19883	–0.95	–1.99	7.69	–1.22	–7.22	–5.98
	Outside	19890	–2.90	–3.83	3.43	–3.13	–4.33	–3.40
10	Inside	28657	–3.38	–1.01	8.52	–1.90	–2.19	–1.48
	Middle	28659	–2.59	–0.58	10.04	–1.41	–4.99	–4.32
	Outside	28661	–2.52	–1.46	10.63	–1.02	–7.12	–7.42
11	Inside	28745	–14.17	–0.68	4.89	–1.42	–0.32	–0.43
	Middle	28744	–1.85	–0.37	9.71	–0.15	–0.36	–1.03
	Outside	28743	7.23	0.37	14.54	1.01	–0.74	–1.17

TABLE 2.10.6-40
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
SIDE DROP BASE CASE, 47.7g, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11752	–8.23	–0.47	–32.35	0.76	0.09	0.12
	Middle	11751	0.39	–0.36	–31.18	–0.09	0.07	0.21
	Outside	11750	6.42	–0.27	–30.76	–0.67	0.06	0.28
4	Inside	11583	–4.28	–3.27	–29.63	3.38	–0.31	0.49
	Middle	11585	–0.15	0.02	–28.48	–0.19	–0.99	1.19
	Outside	11587	3.24	2.75	–27.69	–3.13	–1.65	1.86
5	Inside	2937	–2.10	–1.72	–18.40	1.42	–1.83	1.84
	Middle	2944	–0.33	0.06	–18.71	–0.19	–2.92	2.90
	Outside	2951	1.39	1.80	–19.03	–1.76	–4.00	3.97
6	Inside	3019	4.78	7.62	–4.48	–6.49	–4.42	3.86
	Middle	3021	–0.60	0.59	–9.77	–0.12	–4.52	3.97
	Outside	3023	–5.04	–5.14	–14.39	5.13	–4.67	4.14
7	Inside	3188	1.12	20.43	3.87	–0.11	–7.85	–0.08
	Middle	3187	0.87	–0.04	–2.74	–0.10	–6.61	–0.08
	Outside	3186	0.67	–14.31	–7.45	–0.09	–5.68	–0.08
8	Inside	20147	3.11	5.72	6.64	4.31	–6.04	–5.56
	Middle	20149	–0.42	1.09	5.28	0.23	–5.03	–4.62
	Outside	20151	–3.21	–2.51	4.45	–3.05	–4.15	–3.77
9	Inside	20065	–3.84	–3.70	14.44	–3.68	–4.93	–4.93
	Middle	20072	0.68	0.89	18.54	0.87	–4.00	–4.00
	Outside	20079	5.17	5.46	22.60	5.38	–3.07	–3.06
10	Inside	28711	0.44	–0.93	30.33	–0.08	–2.21	–2.31
	Middle	28713	1.49	0.12	32.50	0.94	–1.62	–1.68
	Outside	28715	2.48	1.15	34.59	1.88	–1.08	–1.11
11	Inside	28880	4.33	–0.05	35.10	0.32	–0.12	–0.43
	Middle	28879	1.65	0.01	36.52	0.07	–0.12	–0.29
	Outside	28878	–0.29	0.07	38.10	–0.11	–0.12	–0.18

TABLE 2.10.6-41
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
SIDE DROP BASE CASE, 47.7g, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12214	–13.94	–0.80	–38.80	1.26	0.06	0.10
	Middle	12213	0.57	–0.61	–36.00	–0.16	0.05	0.16
	Outside	12212	10.73	–0.45	–34.53	–1.15	0.04	0.20
4	Inside	12045	–6.58	–4.78	–35.13	5.23	–0.26	0.39
	Middle	12047	–0.32	0.16	–32.97	–0.23	–0.74	0.88
	Outside	12049	4.80	4.25	–31.41	–4.72	–1.21	1.36
5	Inside	3399	–1.18	–0.74	–20.98	1.05	–1.36	1.31
	Middle	3406	–0.21	0.26	–21.96	0.01	–2.12	2.08
	Outside	3413	0.79	1.27	–22.91	–1.04	–2.89	2.84
6	Inside	3481	6.08	9.41	–5.52	–7.99	–3.05	2.68
	Middle	3483	–0.66	0.65	–11.94	–0.09	–3.14	2.76
	Outside	3485	–6.23	–6.51	–17.55	6.44	–3.25	2.88
7	Inside	3650	1.34	24.33	4.06	–0.12	–5.33	–0.06
	Middle	3649	1.04	–0.18	–3.85	–0.11	–4.50	–0.05
	Outside	3648	0.79	–17.28	–9.51	–0.10	–3.87	–0.05
8	Inside	20609	4.20	7.33	7.68	5.58	–4.03	–3.72
	Middle	20611	–0.51	1.21	5.66	0.17	–3.34	–3.06
	Outside	20613	–4.26	–3.62	4.32	–4.19	–2.73	–2.47
9	Inside	20527	–4.01	–3.70	17.61	–3.76	–3.25	–3.25
	Middle	20534	0.57	0.96	21.87	0.84	–2.58	–2.58
	Outside	20541	5.13	5.59	26.14	5.43	–1.92	–1.91
10	Inside	29173	–1.33	–2.19	35.50	–1.51	–1.46	–1.51
	Middle	29175	1.38	0.17	38.77	0.97	–1.04	–1.07
	Outside	29177	3.74	2.27	41.87	3.13	–0.65	–0.67
11	Inside	29342	0.43	–0.26	40.60	–0.03	–0.09	–0.28
	Middle	29341	1.75	–0.15	43.57	0.11	–0.08	–0.18
	Outside	29340	2.65	–0.05	46.43	0.20	–0.08	–0.11

TABLE 2.10.6-42
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
SIDE DROP BASE CASE, 47.7g, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12676	–18.60	–1.06	–44.53	1.67	0.00	0.00
	Middle	12675	0.69	–0.80	–40.51	–0.21	0.00	0.00
	Outside	12674	14.20	–0.60	–38.22	–1.53	0.00	0.01
4	Inside	12507	–8.47	–6.04	–40.02	6.77	–0.01	0.01
	Middle	12509	–0.46	0.26	–37.07	–0.24	–0.02	0.03
	Outside	12511	6.10	5.47	–34.87	–6.01	–0.04	0.04
5	Inside	3861	–0.93	–0.39	–23.58	0.85	–0.01	0.01
	Middle	3868	–0.26	0.32	–24.70	0.07	–0.04	0.04
	Outside	3875	0.45	1.04	–25.80	–0.74	–0.07	0.07
6	Inside	3943	7.25	11.05	–5.99	–9.32	0.00	0.00
	Middle	3945	–0.72	0.71	–13.39	–0.04	–0.02	0.02
	Outside	3947	–7.32	–7.74	–19.83	7.64	–0.04	0.04
7	Inside	4112	1.55	27.94	4.77	–0.13	0.01	0.00
	Middle	4111	1.20	–0.33	–4.31	–0.11	0.00	0.00
	Outside	4110	0.90	–20.05	–10.80	–0.10	0.00	0.00
8	Inside	21071	5.27	8.88	9.01	6.82	0.02	0.01
	Middle	21073	–0.58	1.31	6.36	0.12	0.03	0.02
	Outside	21075	–5.26	–4.71	4.53	–5.29	0.04	0.04
9	Inside	20989	–4.14	–3.68	20.17	–3.82	0.01	0.01
	Middle	20996	0.51	1.04	24.65	0.86	0.05	0.05
	Outside	21003	5.14	5.75	29.11	5.51	0.08	0.08
10	Inside	29635	–2.88	–3.31	39.37	–2.77	0.00	0.01
	Middle	29637	1.33	0.23	43.64	1.04	0.02	0.03
	Outside	29639	4.92	3.31	47.58	4.30	0.04	0.04
11	Inside	29804	–2.99	–0.47	44.66	–0.33	0.00	0.00
	Middle	29803	1.94	–0.30	49.01	0.15	0.00	0.00
	Outside	29802	5.34	–0.16	52.89	0.49	0.00	0.01

TABLE 2.10.6-43
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR OBLIQUE DROP, 10g, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	1383	0.04	1.62	0.75	0.47	1.12	–0.10
	Middle	1390	1.70	0.75	–0.59	0.10	0.76	0.22
	Outside	1397	3.64	0.15	–1.67	0.04	0.67	0.49
2	Inside	1417	1.41	0.04	–0.22	–0.17	0.14	–0.38
	Middle	1419	0.46	–0.06	–1.07	–0.04	–0.03	0.44
	Outside	1421	–0.48	–0.09	–2.03	0.05	–0.13	1.11
3	Inside	1466	0.85	0.68	–0.57	–0.69	–0.71	0.56
	Middle	1465	0.17	0.07	–0.76	0.09	–0.91	0.76
	Outside	1464	–0.38	–0.32	–0.91	0.62	–1.09	0.98
4	Inside	9981	0.02	0.57	0.09	–0.33	–1.94	0.20
	Middle	9983	–0.06	–0.08	0.14	–0.17	–1.84	0.18
	Outside	9985	–0.06	–0.69	0.18	–0.04	–1.79	0.12
5	Inside	9947	–0.02	–1.20	–0.08	–0.17	–2.21	0.13
	Middle	9954	–0.10	–0.17	0.96	–0.11	–2.39	0.18
	Outside	9961	–0.17	0.86	1.97	–0.03	–2.64	0.15
6	Inside	27109	–0.01	–1.33	1.58	–0.19	–2.39	0.00
	Middle	27111	0.08	–1.43	1.81	–0.07	–1.58	0.03
	Outside	27113	0.16	–1.59	2.15	–0.07	–0.95	–0.07
7	Inside	18594	–2.51	–2.26	0.68	–1.85	–0.87	–0.39
	Middle	18593	–0.94	–0.90	0.63	0.14	–0.66	–0.27
	Outside	18592	0.14	–0.23	0.35	1.34	–0.47	–0.17
8	Inside	18545	–3.97	–1.47	0.60	–1.01	0.02	1.64
	Middle	18547	–2.26	–0.57	–0.30	–0.65	0.09	–0.55
	Outside	18549	–0.57	–0.08	–1.32	–0.39	–0.24	–2.44
9	Inside	18511	0.88	0.73	4.03	–0.27	0.11	–0.26
	Middle	18518	–3.86	0.92	–0.31	0.43	0.42	–0.05
	Outside	18525	–8.36	1.34	–4.14	0.70	0.44	–0.02

TABLE 2.10.6-44
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR OBLIQUE DROP, 10g, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2748	–4.28	–0.49	–4.92	–0.20	–0.09	0.15
	Middle	2755	0.19	–0.30	–3.66	–0.19	–0.07	0.11
	Outside	2762	4.53	–0.08	–2.45	–0.21	–0.09	0.10
2	Inside	2965	0.32	–0.03	–3.30	–0.11	–0.01	0.70
	Middle	2967	0.13	–0.04	–3.76	–0.08	–0.05	0.90
	Outside	2969	0.18	0.15	–3.94	–0.04	–0.02	1.06
3	Inside	3053	0.81	0.89	–2.26	–0.78	–0.72	0.76
	Middle	3052	0.05	0.09	–2.89	–0.02	–1.22	1.26
	Outside	3051	–0.51	–0.50	–3.44	0.53	–1.72	1.74
4	Inside	11529	0.01	1.10	–1.59	–0.16	–1.27	0.08
	Middle	11531	–0.06	0.13	–1.71	–0.09	–2.62	0.07
	Outside	11533	–0.08	–0.68	–1.77	–0.01	–3.90	0.21
5	Inside	11312	0.02	0.63	–0.15	0.06	–3.00	–0.18
	Middle	11319	–0.01	0.11	0.50	0.06	–3.51	–0.18
	Outside	11326	–0.03	–0.41	1.14	0.06	–4.00	–0.15
6	Inside	28657	0.08	2.98	2.73	0.15	–5.66	–0.38
	Middle	28659	–0.19	–0.09	2.85	–0.01	–4.04	–0.36
	Outside	28661	–0.46	–2.62	3.10	–0.11	–2.52	–0.16
7	Inside	20181	–1.31	–0.69	2.12	–0.86	–5.52	–5.67
	Middle	20180	–0.33	0.22	3.12	0.02	–2.44	–2.57
	Outside	20179	0.45	0.94	4.17	0.63	–0.04	–0.05
8	Inside	20093	–4.37	–0.36	2.26	–0.54	–0.52	–7.69
	Middle	20095	–0.55	0.08	2.77	–0.29	–0.51	–1.61
	Outside	20097	2.32	0.07	2.72	0.02	0.13	4.10
9	Inside	19876	0.31	–0.32	6.53	0.05	–1.28	–0.58
	Middle	19883	–1.27	–0.24	2.67	0.05	–1.29	–0.08
	Outside	19890	–2.89	–0.27	–1.23	–0.10	–1.10	0.29

TABLE 2.10.6-45
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR OBLIQUE DROP, 10g, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2937	–3.42	0.02	–7.63	0.01	0.01	0.05
	Middle	2944	–0.52	0.01	–7.16	0.01	0.00	0.05
	Outside	2951	2.40	0.01	–6.68	0.01	0.00	0.06
2	Inside	3019	–4.62	–0.25	–8.35	0.27	–0.03	0.61
	Middle	3021	–0.22	–0.17	–7.41	0.02	–0.03	0.71
	Outside	3023	3.44	–0.11	–6.69	–0.18	–0.04	0.81
3	Inside	3188	–1.80	–1.30	–7.37	1.39	–0.72	0.71
	Middle	3187	–0.23	0.14	–6.86	–0.08	–0.75	0.74
	Outside	3186	0.87	1.15	–6.60	–1.11	–0.79	0.78
4	Inside	11583	–0.01	0.75	–4.55	0.18	–1.25	0.06
	Middle	11585	0.00	0.17	–4.93	0.18	–1.29	0.06
	Outside	11587	0.01	–0.39	–5.31	0.19	–1.33	0.06
5	Inside	11501	0.00	6.71	2.02	0.18	–1.52	0.00
	Middle	11508	0.00	0.67	–0.32	0.18	–1.45	0.00
	Outside	11515	0.00	–5.37	–2.66	0.18	–1.39	0.00
6	Inside	28711	0.40	13.73	8.53	0.90	–1.28	–0.04
	Middle	28713	0.31	0.66	4.17	0.13	–1.10	–0.04
	Outside	28715	0.22	–10.18	0.47	–0.47	–0.95	–0.03
7	Inside	20316	4.20	5.74	9.28	4.52	–0.58	–0.55
	Middle	20315	–0.24	0.95	6.90	0.01	–0.55	–0.52
	Outside	20314	–3.34	–2.43	5.33	–3.16	–0.54	–0.50
8	Inside	20147	–4.13	–0.25	5.79	0.68	–0.01	–0.32
	Middle	20149	0.52	–0.18	8.21	0.83	–0.02	–0.52
	Outside	20151	4.76	–0.06	10.51	0.95	–0.03	–0.72
9	Inside	20065	–17.38	–0.21	1.16	0.12	0.05	–0.02
	Middle	20072	0.66	–0.16	7.92	0.11	0.05	–0.05
	Outside	20079	18.66	–0.11	14.66	0.11	0.04	–0.07

TABLE 2.10.6-46
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR OBLIQUE DROP, 10g, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3399	–3.64	0.05	–8.49	0.02	0.00	0.02
	Middle	3406	–0.48	0.03	–8.00	0.01	0.00	0.02
	Outside	3413	2.69	0.01	–7.50	0.01	0.00	0.02
2	Inside	3481	–4.58	–0.29	–9.12	0.23	–0.02	0.31
	Middle	3483	–0.19	–0.20	–8.26	–0.01	–0.02	0.27
	Outside	3485	3.46	–0.12	–7.62	–0.20	–0.02	0.24
3	Inside	3650	–1.51	–0.98	–7.83	1.11	–0.41	0.39
	Middle	3649	–0.22	0.18	–7.51	–0.08	–0.28	0.26
	Outside	3648	0.69	0.99	–7.40	–0.92	–0.17	0.15
4	Inside	12045	0.00	1.26	–4.84	0.12	–0.69	0.02
	Middle	12047	0.02	0.21	–5.26	0.16	–0.43	0.02
	Outside	12049	0.02	–0.75	–5.65	0.19	–0.19	0.01
5	Inside	11963	0.00	6.43	1.77	0.15	–0.60	0.01
	Middle	11970	0.00	0.66	–0.16	0.15	–0.42	0.01
	Outside	11977	0.00	–5.10	–2.09	0.15	–0.24	0.01
6	Inside	29173	0.36	12.10	8.57	0.77	0.01	0.03
	Middle	29175	0.27	0.58	4.95	0.10	–0.27	0.02
	Outside	29177	0.19	–8.98	1.93	–0.43	–0.53	0.02
7	Inside	20778	3.47	4.85	9.43	3.79	0.32	0.35
	Middle	20777	–0.24	0.83	7.53	0.00	–0.14	–0.11
	Outside	20776	–2.82	–2.02	6.32	–2.66	–0.54	–0.51
8	Inside	20609	–4.04	–0.23	6.48	0.55	0.03	0.63
	Middle	20611	0.39	–0.16	8.56	0.70	0.01	–0.11
	Outside	20613	4.39	–0.06	10.52	0.82	–0.01	–0.79
9	Inside	20527	–15.39	–0.17	2.79	0.10	0.07	0.04
	Middle	20534	0.42	–0.13	8.37	0.10	0.06	–0.01
	Outside	20541	16.21	–0.09	13.96	0.09	0.06	–0.07

TABLE 2.10.6-47
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE FOR OBLIQUE DROP, 10g, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3861	–3.13	–0.09	–7.99	–0.03	–0.01	–0.02
	Middle	3868	–0.27	–0.06	–7.58	–0.02	–0.01	–0.03
	Outside	3875	2.58	–0.02	–7.17	–0.02	–0.01	–0.04
2	Inside	3943	–3.01	–0.25	–8.14	0.10	0.01	–0.23
	Middle	3945	–0.08	–0.17	–7.71	–0.05	0.01	–0.44
	Outside	3947	2.36	–0.09	–7.43	–0.17	0.02	–0.63
3	Inside	4112	–0.68	–0.29	–6.80	0.43	0.26	–0.27
	Middle	4111	–0.14	0.15	–6.86	–0.05	0.47	–0.48
	Outside	4110	0.24	0.46	–7.00	–0.38	0.66	–0.67
4	Inside	12507	0.02	1.40	–4.29	0.03	0.48	–0.04
	Middle	12509	0.02	0.14	–4.68	0.09	0.85	–0.04
	Outside	12511	0.03	–0.96	–5.02	0.13	1.21	–0.05
5	Inside	12425	0.00	4.19	1.18	0.08	0.83	0.02
	Middle	12432	0.00	0.41	0.02	0.08	1.01	0.02
	Outside	12439	0.00	–3.37	–1.13	0.08	1.19	0.02
6	Inside	29635	0.21	7.18	6.78	0.44	1.39	0.09
	Middle	29637	0.16	0.33	4.70	0.05	0.85	0.08
	Outside	29639	0.11	–5.35	2.97	–0.27	0.36	0.07
7	Inside	21240	1.96	2.79	7.81	2.17	1.15	1.18
	Middle	21239	–0.15	0.49	6.84	0.00	0.44	0.47
	Outside	21238	–1.62	–1.14	6.26	–1.51	–0.16	–0.14
8	Inside	21071	–2.59	–0.14	6.25	0.32	0.06	1.40
	Middle	21073	0.24	–0.10	7.62	0.42	0.04	0.43
	Outside	21075	2.78	–0.04	8.91	0.49	0.02	–0.46
9	Inside	20989	–9.31	–0.10	4.10	0.06	0.07	0.09
	Middle	20996	0.25	–0.08	7.49	0.06	0.06	0.03
	Outside	21003	9.80	–0.06	10.88	0.05	0.06	–0.04

TABLE 2.10.6-48
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
OBLIQUE BASE CASE, 10g, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	10030	1.92	0.20	–2.39	–0.26	0.00	0.17
	Middle	10029	–0.63	0.32	–2.79	0.01	–0.01	0.14
	Outside	10028	–2.61	0.27	–3.42	0.20	0.02	0.13
4	Inside	9981	1.11	0.73	–1.36	–0.80	–0.49	0.87
	Middle	9983	–0.13	–0.21	–2.17	0.11	–0.68	0.84
	Outside	9985	–1.30	–1.04	–3.22	1.02	–0.90	0.99
5	Inside	1383	0.31	–0.09	–0.43	0.00	–0.69	0.99
	Middle	1390	0.74	0.42	–0.35	–0.61	–0.92	1.17
	Outside	1397	1.18	0.95	–0.33	–1.20	–1.16	1.38
6	Inside	1417	–1.69	–1.46	–0.10	–0.57	–1.12	1.16
	Middle	1419	–0.29	0.03	0.91	–1.08	–1.45	1.41
	Outside	1421	0.74	1.19	1.77	–1.31	–1.86	1.69
7	Inside	1466	0.07	0.11	1.51	–0.18	–2.04	0.04
	Middle	1465	0.14	0.73	1.18	–0.05	–1.72	–0.01
	Outside	1464	0.28	1.46	1.08	0.13	–1.49	–0.04
8	Inside	18545	–2.00	–2.17	1.72	–0.37	–1.33	–0.61
	Middle	18547	–0.42	–0.47	1.41	0.46	–1.19	–0.81
	Outside	18549	0.80	0.95	1.06	1.12	–1.28	–0.88
9	Inside	18511	0.63	–0.08	4.01	–0.25	0.11	0.37
	Middle	18518	–0.51	–1.04	1.11	–1.29	–0.43	–0.54
	Outside	18525	–1.43	–1.93	–1.46	–2.33	–1.12	–1.34
10	Inside	27109	–1.89	–0.20	1.81	–1.35	–1.93	–1.98
	Middle	27111	–2.38	–1.15	–0.25	–2.26	0.00	–0.12
	Outside	27113	–2.82	–1.69	–2.12	–2.61	1.45	1.59
11	Inside	27158	–6.38	–1.04	0.04	–0.96	–0.67	–0.33
	Middle	27157	–3.06	–2.07	–1.05	–0.75	–0.50	0.03
	Outside	27156	–1.90	–2.91	–2.76	–0.66	–0.39	0.35

TABLE 2.10.6-49
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
OBLIQUE BASE CASE, 10g , SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11617	2.10	0.10	–4.43	–0.19	0.01	0.07
	Middle	11616	–0.09	0.08	–5.48	0.02	0.02	0.10
	Outside	11615	–1.67	0.05	–6.37	0.18	0.00	0.12
4	Inside	11529	0.92	0.66	–4.20	–0.76	–0.20	0.27
	Middle	11531	0.02	–0.05	–5.12	–0.06	–0.52	0.54
	Outside	11533	–0.62	–0.50	–5.76	0.53	–0.73	0.91
5	Inside	2748	–0.88	–0.92	–2.86	0.86	–0.35	0.38
	Middle	2755	0.15	0.11	–2.37	–0.15	–0.90	0.90
	Outside	2762	1.19	1.15	–1.86	–1.15	–1.43	1.42
6	Inside	2965	0.22	0.64	0.21	–0.54	–2.03	1.67
	Middle	2967	–0.05	0.27	0.10	–0.22	–2.01	1.65
	Outside	2969	–0.18	–0.01	0.09	0.03	–1.97	1.67
7	Inside	3053	0.07	1.74	1.49	–0.11	–4.38	–0.13
	Middle	3052	0.05	0.31	1.27	–0.11	–3.24	–0.12
	Outside	3051	0.02	–0.65	1.14	–0.11	–2.45	–0.13
8	Inside	20093	–0.94	–1.19	1.17	–0.93	–3.84	–3.60
	Middle	20095	0.04	0.04	1.79	0.00	–2.64	–2.35
	Outside	20097	0.85	1.05	2.29	0.78	–1.34	–1.32
9	Inside	19876	0.25	–0.26	4.01	0.11	–3.66	–3.04
	Middle	19883	–0.26	–0.75	2.48	–0.41	–2.61	–2.02
	Outside	19890	–0.82	–1.25	0.95	–0.93	–1.49	–1.03
10	Inside	28657	–0.90	–0.18	2.67	–0.40	–0.66	–0.37
	Middle	28659	–0.92	–0.25	3.11	–0.47	–1.95	–1.68
	Outside	28661	–1.18	–0.80	3.20	–0.52	–2.96	–3.07
11	Inside	28745	–4.44	–0.25	1.29	–0.47	–0.11	–0.13
	Middle	28744	–0.60	–0.12	2.95	–0.06	–0.13	–0.41
	Outside	28743	2.25	0.19	4.71	0.34	–0.30	–0.48

TABLE 2.10.6-50
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
OBLIQUE BASE CASE, 10g, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11752	–2.37	–0.14	–8.53	0.22	0.03	0.01
	Middle	11751	0.11	–0.10	–8.12	–0.02	0.02	0.04
	Outside	11750	1.84	–0.08	–7.93	–0.19	0.02	0.06
4	Inside	11583	–1.27	–0.98	–7.87	1.00	0.03	0.01
	Middle	11585	–0.05	–0.01	–7.48	–0.05	–0.16	0.20
	Outside	11587	0.96	0.80	–7.21	–0.92	–0.34	0.38
5	Inside	2937	–0.87	–0.72	–5.24	0.51	–0.25	0.25
	Middle	2944	–0.16	–0.01	–5.22	–0.10	–0.50	0.50
	Outside	2951	0.53	0.68	–5.23	–0.69	–0.76	0.75
6	Inside	3019	1.67	2.70	–1.45	–2.33	–0.78	0.68
	Middle	3021	–0.22	0.22	–3.29	–0.07	–0.82	0.73
	Outside	3023	–1.78	–1.80	–4.89	1.79	–0.88	0.78
7	Inside	3188	0.40	7.31	0.97	–0.06	–1.39	–0.01
	Middle	3187	0.31	0.04	–1.44	–0.05	–1.25	–0.01
	Outside	3186	0.24	–5.01	–3.18	–0.04	–1.15	–0.01
8	Inside	20147	0.80	1.72	1.35	1.25	–1.12	–1.03
	Middle	20149	–0.17	0.44	0.97	0.12	–0.99	–0.91
	Outside	20151	–0.91	–0.53	0.75	–0.77	–0.89	–0.81
9	Inside	20065	–1.65	–1.66	3.57	–1.62	–1.08	–1.10
	Middle	20072	0.32	0.35	5.19	0.37	–0.82	–0.84
	Outside	20079	2.29	2.34	6.80	2.35	–0.56	–0.58
10	Inside	28711	0.87	0.08	9.27	0.52	–0.59	–0.61
	Middle	28713	0.67	0.02	9.71	0.38	–0.34	–0.35
	Outside	28715	0.56	0.04	10.19	0.31	–0.12	–0.11
11	Inside	28880	3.39	0.07	11.13	0.28	–0.04	–0.11
	Middle	28879	0.63	0.07	11.05	0.01	–0.04	–0.06
	Outside	28878	–1.32	0.08	11.20	–0.18	–0.04	–0.02

TABLE 2.10.6-51
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
OBLIQUE BASE CASE, 10g, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12214	–3.74	–0.21	–9.57	0.34	0.01	0.00
	Middle	12213	0.15	–0.16	–8.76	–0.04	0.01	0.02
	Outside	12212	2.86	–0.12	–8.29	–0.31	0.01	0.03
4	Inside	12045	–1.79	–1.31	–8.71	1.42	0.02	0.00
	Middle	12047	–0.09	0.03	–8.08	–0.06	–0.08	0.10
	Outside	12049	1.30	1.15	–7.62	–1.28	–0.17	0.19
5	Inside	3399	–0.50	–0.35	–5.48	0.34	–0.13	0.11
	Middle	3406	–0.10	0.05	–5.67	–0.03	–0.23	0.21
	Outside	3413	0.29	0.44	–5.87	–0.40	–0.33	0.32
6	Inside	3481	1.81	2.84	–1.66	–2.42	–0.29	0.26
	Middle	3483	–0.21	0.20	–3.58	–0.04	–0.30	0.27
	Outside	3485	–1.88	–1.95	–5.26	1.93	–0.32	0.29
7	Inside	3650	0.41	7.40	0.84	–0.05	–0.40	0.01
	Middle	3649	0.32	–0.02	–1.61	–0.04	–0.41	0.00
	Outside	3648	0.24	–5.18	–3.39	–0.04	–0.42	0.00
8	Inside	20609	1.08	2.03	1.56	1.52	–0.28	–0.26
	Middle	20611	–0.16	0.40	0.98	0.08	–0.29	–0.27
	Outside	20613	–1.14	–0.87	0.59	–1.07	–0.31	–0.29
9	Inside	20527	–1.42	–1.37	4.25	–1.36	–0.33	–0.35
	Middle	20534	0.23	0.31	5.66	0.30	–0.20	–0.22
	Outside	20541	1.88	1.99	7.07	1.96	–0.07	–0.09
10	Inside	29173	0.12	–0.37	9.81	–0.06	–0.24	–0.25
	Middle	29175	0.53	0.04	10.58	0.33	–0.08	–0.08
	Outside	29177	0.91	0.43	11.34	0.70	0.06	0.08
11	Inside	29342	1.48	–0.02	11.49	0.11	–0.02	–0.04
	Middle	29341	0.58	0.00	12.01	0.02	–0.02	–0.01
	Outside	29340	–0.06	0.02	12.60	–0.03	–0.02	0.01

TABLE 2.10.6-52
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
OBLIQUE BASE CASE, 10g, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12676	–3.93	–0.22	–9.45	0.35	–0.01	–0.01
	Middle	12675	0.14	–0.17	–8.59	–0.04	–0.01	–0.02
	Outside	12674	2.99	–0.13	–8.10	–0.32	–0.01	–0.03
4	Inside	12507	–1.79	–1.27	–8.49	1.43	0.03	–0.05
	Middle	12509	–0.10	0.05	–7.87	–0.05	0.10	–0.12
	Outside	12511	1.28	1.15	–7.41	–1.26	0.16	–0.18
5	Inside	3861	–0.19	–0.07	–5.03	0.17	0.18	–0.18
	Middle	3868	–0.06	0.07	–5.28	0.01	0.31	–0.31
	Outside	3875	0.08	0.21	–5.53	–0.14	0.45	–0.45
6	Inside	3943	1.53	2.32	–1.35	–1.96	0.54	–0.47
	Middle	3945	–0.15	0.15	–2.92	–0.01	0.56	–0.49
	Outside	3947	–1.54	–1.63	–4.29	1.61	0.59	–0.51
7	Inside	4112	0.32	5.85	0.92	–0.03	1.13	0.02
	Middle	4111	0.25	–0.07	–0.99	–0.02	0.88	0.02
	Outside	4110	0.19	–4.20	–2.36	–0.02	0.69	0.02
8	Inside	21071	1.09	1.85	1.85	1.42	0.93	0.86
	Middle	21073	–0.12	0.27	1.30	0.03	0.70	0.64
	Outside	21075	–1.09	–0.98	0.93	–1.10	0.50	0.45
9	Inside	20989	–0.88	–0.78	4.30	–0.81	0.69	0.67
	Middle	20996	0.11	0.22	5.26	0.18	0.60	0.59
	Outside	21003	1.09	1.22	6.21	1.17	0.52	0.50
10	Inside	29635	–0.58	–0.68	8.47	–0.57	0.23	0.24
	Middle	29637	0.28	0.05	9.36	0.22	0.25	0.26
	Outside	29639	1.02	0.69	10.20	0.89	0.27	0.29
11	Inside	29804	–0.57	–0.09	9.62	–0.07	0.01	0.05
	Middle	29803	0.41	–0.06	10.52	0.03	0.01	0.05
	Outside	29802	1.09	–0.03	11.34	0.10	0.00	0.05

TABLE 2.10.6-53
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE EXTERNAL PRESSURE OF 290 psi, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	1383	–0.85	–0.60	–6.61	–0.06	–1.59	0.24
	Middle	1390	–1.89	–0.41	–1.85	–0.09	–0.88	–0.01
	Outside	1397	–3.13	–0.33	2.48	–0.09	–0.65	–0.29
2	Inside	1417	–2.92	–0.23	–2.05	0.62	–0.24	2.54
	Middle	1419	–1.24	–0.27	–0.63	0.27	–0.07	–0.21
	Outside	1421	0.14	–0.33	0.59	0.08	0.22	–2.83
3	Inside	1466	–2.64	–2.64	–1.47	2.55	0.23	0.23
	Middle	1465	–0.60	–0.60	–0.80	0.20	0.25	0.25
	Outside	1464	0.92	0.92	–0.49	–1.49	0.24	0.24
4	Inside	9981	–0.23	–2.92	–2.05	0.62	2.54	–0.24
	Middle	9983	–0.27	–1.24	–0.63	0.27	–0.21	–0.07
	Outside	9985	–0.33	0.14	0.59	0.08	–2.83	0.22
5	Inside	9947	–0.60	–0.85	–6.61	0.00	0.00	–1.59
	Middle	9954	–0.41	–1.89	–1.85	0.00	0.00	–0.88
	Outside	9961	–0.33	–3.13	2.48	0.00	0.00	–0.65
6	Inside	27109	–0.23	–2.92	–2.05	–0.62	–2.54	–0.24
	Middle	27111	–0.27	–1.24	–0.63	–0.27	0.21	–0.07
	Outside	27113	–0.33	0.14	0.59	–0.08	2.83	0.22
7	Inside	18594	–2.64	–2.64	–1.47	–2.55	–0.23	0.23
	Middle	18593	–0.60	–0.60	–0.80	–0.20	–0.25	0.25
	Outside	18592	0.92	0.92	–0.49	1.49	–0.24	0.24
8	Inside	18545	–2.92	–0.23	–2.05	–0.62	0.24	2.54
	Middle	18547	–1.24	–0.27	–0.63	–0.27	0.07	–0.21
	Outside	18549	0.14	–0.33	0.59	–0.08	–0.22	–2.83
9	Inside	18511	–0.85	–0.60	–6.61	0.06	1.59	0.24
	Middle	18518	–1.89	–0.41	–1.85	0.09	0.88	–0.01
	Outside	18525	–3.13	–0.33	2.48	0.09	0.65	–0.29

TABLE 2.10.6-54
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE EXTERNAL PRESSURE OF 290 psi, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2748	11.14	–0.05	5.08	0.08	–0.08	0.15
	Middle	2755	–2.49	–0.26	–1.44	0.10	–0.11	–0.01
	Outside	2762	–16.06	–0.50	–7.93	0.24	–0.01	–0.19
2	Inside	2965	–8.88	–0.32	–2.71	1.83	0.12	1.40
	Middle	2967	–2.01	0.12	–1.09	1.29	0.22	–0.15
	Outside	2969	3.10	0.41	–0.09	0.59	–0.12	–1.46
3	Inside	3053	–11.37	–11.37	–7.22	10.32	0.13	0.13
	Middle	3052	–1.44	–1.44	–1.13	0.41	0.10	0.10
	Outside	3051	5.70	5.70	3.28	–6.66	0.11	0.11
4	Inside	11529	–0.32	–8.88	–2.71	1.83	1.40	0.12
	Middle	11531	0.12	–2.01	–1.09	1.29	–0.15	0.22
	Outside	11533	0.41	3.10	–0.09	0.59	–1.46	–0.12
5	Inside	11312	–0.05	11.14	5.08	0.00	0.00	–0.08
	Middle	11319	–0.26	–2.49	–1.44	0.00	0.00	–0.11
	Outside	11326	–0.50	–16.06	–7.93	0.00	0.00	–0.01
6	Inside	28657	–0.32	–8.88	–2.71	–1.83	–1.40	0.12
	Middle	28659	0.12	–2.01	–1.09	–1.29	0.15	0.22
	Outside	28661	0.41	3.10	–0.09	–0.59	1.46	–0.12
7	Inside	20181	–11.37	–11.37	–7.22	–10.32	–0.13	0.13
	Middle	20180	–1.44	–1.44	–1.13	–0.41	–0.10	0.10
	Outside	20179	5.70	5.70	3.28	6.66	–0.11	0.11
8	Inside	20093	–8.88	–0.32	–2.71	–1.83	–0.12	1.40
	Middle	20095	–2.01	0.12	–1.09	–1.29	–0.22	–0.15
	Outside	20097	3.10	0.41	–0.09	–0.59	0.12	–1.46
9	Inside	19876	11.14	–0.05	5.08	–0.08	0.08	0.15
	Middle	19883	–2.49	–0.26	–1.44	–0.10	0.11	–0.01
	Outside	19890	–16.06	–0.50	–7.93	–0.24	0.01	–0.19

TABLE 2.10.6-55
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE EXTERNAL PRESSURE OF 290 psi, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	2937	12.99	–0.11	3.38	0.11	0.00	0.00
	Middle	2944	–2.64	–0.15	–1.31	0.11	0.00	0.00
	Outside	2951	–18.27	–0.18	–6.01	0.11	0.00	0.00
2	Inside	3019	–10.84	–0.44	–3.86	2.16	0.00	–0.01
	Middle	3021	–2.05	–0.44	–1.22	1.45	0.00	0.00
	Outside	3023	4.65	–0.51	0.77	0.90	0.00	0.00
3	Inside	3188	–13.19	–13.19	–8.39	11.82	0.00	0.00
	Middle	3187	–1.35	–1.35	–1.28	0.19	0.00	0.00
	Outside	3186	6.97	6.97	3.71	–7.97	0.00	0.00
4	Inside	11583	–0.44	–10.84	–3.86	2.16	–0.01	0.00
	Middle	11585	–0.44	–2.05	–1.22	1.45	0.00	0.00
	Outside	11587	–0.51	4.65	0.77	0.90	0.00	0.00
5	Inside	11501	–0.11	12.99	3.38	0.00	0.00	0.00
	Middle	11508	–0.15	–2.64	–1.31	0.00	0.00	0.00
	Outside	11515	–0.18	–18.27	–6.01	0.00	0.00	0.00
6	Inside	28711	–0.44	–10.84	–3.86	–2.16	0.01	0.00
	Middle	28713	–0.44	–2.05	–1.22	–1.45	0.00	0.00
	Outside	28715	–0.51	4.65	0.77	–0.90	0.00	0.00
7	Inside	20316	–13.19	–13.19	–8.39	–11.82	0.00	0.00
	Middle	20315	–1.35	–1.35	–1.28	–0.19	0.00	0.00
	Outside	20314	6.97	6.97	3.71	7.97	0.00	0.00
8	Inside	20147	–10.84	–0.44	–3.86	–2.16	0.00	–0.01
	Middle	20149	–2.05	–0.44	–1.22	–1.45	0.00	0.00
	Outside	20151	4.65	–0.51	0.77	–0.90	0.00	0.00
9	Inside	20065	12.99	–0.11	3.38	–0.11	0.00	0.00
	Middle	20072	–2.64	–0.15	–1.31	–0.11	0.00	0.00
	Outside	20079	–18.27	–0.18	–6.01	–0.11	0.00	0.00

TABLE 2.10.6-56
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE EXTERNAL PRESSURE OF 290 psi, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3399	12.98	–0.11	3.38	0.11	0.00	0.00
	Middle	3406	–2.64	–0.15	–1.31	0.11	0.00	0.00
	Outside	3413	–18.26	–0.18	–6.01	0.11	0.00	0.00
2	Inside	3481	–10.83	–0.44	–3.86	2.15	0.00	0.00
	Middle	3483	–2.05	–0.44	–1.22	1.45	0.00	0.00
	Outside	3485	4.64	–0.51	0.76	0.90	0.00	0.00
3	Inside	3650	–13.18	–13.18	–8.38	11.82	0.00	0.00
	Middle	3649	–1.35	–1.35	–1.29	0.19	0.00	0.00
	Outside	3648	6.96	6.96	3.70	–7.96	0.00	0.00
4	Inside	12045	–0.44	–10.83	–3.86	2.15	0.00	0.00
	Middle	12047	–0.44	–2.05	–1.22	1.45	0.00	0.00
	Outside	12049	–0.51	4.64	0.76	0.90	0.00	0.00
5	Inside	11963	–0.11	12.98	3.38	0.00	0.00	0.00
	Middle	11970	–0.15	–2.64	–1.31	0.00	0.00	0.00
	Outside	11977	–0.18	–18.26	–6.01	0.00	0.00	0.00
6	Inside	29173	–0.44	–10.83	–3.86	–2.15	0.00	0.00
	Middle	29175	–0.44	–2.05	–1.22	–1.45	0.00	0.00
	Outside	29177	–0.51	4.64	0.76	–0.90	0.00	0.00
7	Inside	20778	–13.18	–13.18	–8.38	–11.82	0.00	0.00
	Middle	20777	–1.35	–1.35	–1.29	–0.19	0.00	0.00
	Outside	20776	6.96	6.96	3.70	7.96	0.00	0.00
8	Inside	20609	–10.83	–0.44	–3.86	–2.15	0.00	0.00
	Middle	20611	–2.05	–0.44	–1.22	–1.45	0.00	0.00
	Outside	20613	4.64	–0.51	0.76	–0.90	0.00	0.00
9	Inside	20527	12.98	–0.11	3.38	–0.11	0.00	0.00
	Middle	20534	–2.64	–0.15	–1.31	–0.11	0.00	0.00
	Outside	20541	–18.26	–0.18	–6.01	–0.11	0.00	0.00

TABLE 2.10.6-57
CONTAINMENT WALL STRESSES (ksi), FLAT MODEL,
BASE CASE EXTERNAL PRESSURE OF 290 psi, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
1	Inside	3861	12.98	–0.11	3.39	0.11	0.00	0.00
	Middle	3868	–2.64	–0.15	–1.31	0.11	0.00	0.00
	Outside	3875	–18.26	–0.18	–6.01	0.11	0.00	0.00
2	Inside	3943	–10.83	–0.44	–3.86	2.15	0.00	0.00
	Middle	3945	–2.05	–0.44	–1.22	1.45	0.00	0.00
	Outside	3947	4.64	–0.51	0.76	0.90	0.00	0.00
3	Inside	4112	–13.18	–13.18	–8.38	11.82	0.00	0.00
	Middle	4111	–1.35	–1.35	–1.29	0.19	0.00	0.00
	Outside	4110	6.96	6.96	3.70	–7.96	0.00	0.00
4	Inside	12507	–0.44	–10.83	–3.86	2.15	0.00	0.00
	Middle	12509	–0.44	–2.05	–1.22	1.45	0.00	0.00
	Outside	12511	–0.51	4.64	0.76	0.90	0.00	0.00
5	Inside	12425	–0.11	12.98	3.39	0.00	0.00	0.00
	Middle	12432	–0.15	–2.64	–1.31	0.00	0.00	0.00
	Outside	12439	–0.18	–18.26	–6.01	0.00	0.00	0.00
6	Inside	29635	–0.44	–10.83	–3.86	–2.15	0.00	0.00
	Middle	29637	–0.44	–2.05	–1.22	–1.45	0.00	0.00
	Outside	29639	–0.51	4.64	0.76	–0.90	0.00	0.00
7	Inside	21240	–13.18	–13.18	–8.38	–11.82	0.00	0.00
	Middle	21239	–1.35	–1.35	–1.29	–0.19	0.00	0.00
	Outside	21238	6.96	6.96	3.70	7.96	0.00	0.00
8	Inside	21071	–10.83	–0.44	–3.86	–2.15	0.00	0.00
	Middle	21073	–2.05	–0.44	–1.22	–1.45	0.00	0.00
	Outside	21075	4.64	–0.51	0.76	–0.90	0.00	0.00
9	Inside	20989	12.98	–0.11	3.39	–0.11	0.00	0.00
	Middle	20996	–2.64	–0.15	–1.31	–0.11	0.00	0.00
	Outside	21003	–18.26	–0.18	–6.01	–0.11	0.00	0.00

TABLE 2.10.6-58
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
EXTERNAL PRESSURE 290 psi, SECTION A

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	10030	–5.18	–0.09	–1.47	0.55	0.32	–0.31
	Middle	10029	–0.80	–0.40	–0.80	0.12	0.35	0.05
	Outside	10028	2.41	–0.56	–0.49	–0.21	0.33	0.33
4	Inside	9981	–2.20	–0.96	–2.05	1.35	1.63	–1.96
	Middle	9983	–1.02	–0.49	–0.63	0.48	–0.19	0.10
	Outside	9985	–0.17	–0.02	0.59	–0.24	–1.85	2.16
5	Inside	1383	–0.72	–0.72	–6.61	0.12	–1.12	–1.12
	Middle	1390	–1.15	–1.15	–1.85	0.74	–0.62	–0.62
	Outside	1397	–1.73	–1.73	2.48	1.40	–0.46	–0.46
6	Inside	1417	–0.96	–2.20	–2.05	1.35	–1.96	1.63
	Middle	1419	–0.49	–1.02	–0.63	0.48	0.10	–0.19
	Outside	1421	–0.02	–0.17	0.59	–0.24	2.16	–1.85
7	Inside	1466	–0.09	–5.18	–1.47	0.00	0.00	0.32
	Middle	1465	–0.40	–0.80	–0.80	0.00	0.00	0.35
	Outside	1464	–0.56	2.41	–0.49	0.00	0.00	0.33
8	Inside	18545	–0.96	–2.20	–2.05	–1.35	1.96	1.63
	Middle	18547	–0.49	–1.02	–0.63	–0.48	–0.10	–0.19
	Outside	18549	–0.02	–0.17	0.59	0.24	–2.16	–1.85
9	Inside	18511	–0.72	–0.72	–6.61	–0.12	1.12	–1.12
	Middle	18518	–1.15	–1.15	–1.85	–0.74	0.62	–0.62
	Outside	18525	–1.73	–1.73	2.48	–1.40	0.46	–0.46
10	Inside	27109	–2.20	–0.96	–2.05	–1.35	–1.63	–1.96
	Middle	27111	–1.02	–0.49	–0.63	–0.48	0.19	0.10
	Outside	27113	–0.17	–0.02	0.59	0.24	1.85	2.16
11	Inside	27158	–5.18	–0.09	–1.47	–0.55	–0.32	–0.31
	Middle	27157	–0.80	–0.40	–0.80	–0.12	–0.35	0.05
	Outside	27156	2.41	–0.56	–0.49	0.21	–0.33	0.33

TABLE 2.10.6-59
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
EXTERNAL PRESSURE 290 psi, SECTION B

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11617	–21.68	–1.05	–7.22	1.80	0.18	–0.14
	Middle	11616	–1.85	–1.02	–1.13	–0.12	0.15	0.05
	Outside	11615	12.36	–0.96	3.28	–1.45	0.16	0.19
4	Inside	11529	–6.43	–2.77	–2.71	4.28	1.08	–0.90
	Middle	11531	–2.23	0.35	–1.09	1.07	0.05	0.26
	Outside	11533	1.17	2.34	–0.09	–1.34	–1.11	0.95
5	Inside	2748	5.55	5.55	5.08	–5.59	–0.06	–0.06
	Middle	2755	–1.37	–1.37	–1.44	1.12	–0.08	–0.08
	Outside	2762	–8.28	–8.28	–7.93	7.78	–0.01	–0.01
6	Inside	2965	–2.77	–6.43	–2.71	4.28	–0.90	1.08
	Middle	2967	0.35	–2.23	–1.09	1.07	0.26	0.05
	Outside	2969	2.34	1.17	–0.09	–1.34	0.95	–1.11
7	Inside	3053	–1.05	–21.68	–7.22	0.00	0.00	0.18
	Middle	3052	–1.02	–1.85	–1.13	0.00	0.00	0.15
	Outside	3051	–0.96	12.36	3.28	0.00	0.00	0.16
8	Inside	20093	–2.77	–6.43	–2.71	–4.28	0.90	1.08
	Middle	20095	0.35	–2.23	–1.09	–1.07	–0.26	0.05
	Outside	20097	2.34	1.17	–0.09	1.34	–0.95	–1.11
9	Inside	19876	5.55	5.55	5.08	5.59	0.06	–0.06
	Middle	19883	–1.37	–1.37	–1.44	–1.12	0.08	–0.08
	Outside	19890	–8.28	–8.28	–7.93	–7.78	0.01	–0.01
10	Inside	28657	–6.43	–2.77	–2.71	–4.28	–1.08	–0.90
	Middle	28659	–2.23	0.35	–1.09	–1.07	–0.05	0.26
	Outside	28661	1.17	2.34	–0.09	1.34	1.11	0.95
11	Inside	28745	–21.68	–1.05	–7.22	–1.80	–0.18	–0.14
	Middle	28744	–1.85	–1.02	–1.13	0.12	–0.15	0.05
	Outside	28743	12.36	–0.96	3.28	1.45	–0.16	0.19

TABLE 2.10.6-60
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
EXTERNAL PRESSURE 290 psi, SECTION C

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	11752	-25.01	-1.37	-8.39	2.11	0.00	0.00
	Middle	11751	-1.54	-1.16	-1.28	-0.18	0.00	0.00
	Outside	11750	14.93	-1.00	3.71	-1.77	0.00	0.00
4	Inside	11583	-7.79	-3.48	-3.86	5.20	0.00	0.00
	Middle	11585	-2.69	0.21	-1.22	0.81	0.00	0.00
	Outside	11587	1.17	2.97	0.77	-2.58	0.00	0.00
5	Inside	2937	6.44	6.44	3.38	-6.55	0.00	0.00
	Middle	2944	-1.39	-1.39	-1.31	1.25	0.00	0.00
	Outside	2951	-9.23	-9.23	-6.01	9.04	0.00	0.00
6	Inside	3019	-3.48	-7.79	-3.86	5.20	0.00	0.00
	Middle	3021	0.21	-2.69	-1.22	0.81	0.00	0.00
	Outside	3023	2.97	1.17	0.77	-2.58	0.00	0.00
7	Inside	3188	-1.37	-25.01	-8.39	0.00	0.00	0.00
	Middle	3187	-1.16	-1.54	-1.28	0.00	0.00	0.00
	Outside	3186	-1.00	14.93	3.71	0.00	0.00	0.00
8	Inside	20147	-3.48	-7.79	-3.86	-5.20	0.00	0.00
	Middle	20149	0.21	-2.69	-1.22	-0.81	0.00	0.00
	Outside	20151	2.97	1.17	0.77	2.58	0.00	0.00
9	Inside	20065	6.44	6.44	3.38	6.55	0.00	0.00
	Middle	20072	-1.39	-1.39	-1.31	-1.25	0.00	0.00
	Outside	20079	-9.23	-9.23	-6.01	-9.04	0.00	0.00
10	Inside	28711	-7.79	-3.48	-3.86	-5.20	0.00	0.00
	Middle	28713	-2.69	0.21	-1.22	-0.81	0.00	0.00
	Outside	28715	1.17	2.97	0.77	2.58	0.00	0.00
11	Inside	28880	-25.01	-1.37	-8.39	-2.11	0.00	0.00
	Middle	28879	-1.54	-1.16	-1.28	0.18	0.00	0.00
	Outside	28878	14.93	-1.00	3.71	1.77	0.00	0.00

TABLE 2.10.6-61
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
EXTERNAL PRESSURE 290 psi, SECTION D

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12214	–25.00	–1.37	–8.38	2.11	0.00	0.00
	Middle	12213	–1.54	–1.16	–1.29	–0.18	0.00	0.00
	Outside	12212	14.92	–1.00	3.70	–1.77	0.00	0.00
4	Inside	12045	–7.79	–3.48	–3.86	5.19	0.00	0.00
	Middle	12047	–2.69	0.21	–1.22	0.81	0.00	0.00
	Outside	12049	1.16	2.97	0.76	–2.58	0.00	0.00
5	Inside	3399	6.44	6.44	3.38	–6.54	0.00	0.00
	Middle	3406	–1.39	–1.39	–1.31	1.25	0.00	0.00
	Outside	3413	–9.22	–9.22	–6.01	9.04	0.00	0.00
6	Inside	3481	–3.48	–7.79	–3.86	5.19	0.00	0.00
	Middle	3483	0.21	–2.69	–1.22	0.81	0.00	0.00
	Outside	3485	2.97	1.16	0.76	–2.58	0.00	0.00
7	Inside	3650	–1.37	–25.00	–8.38	0.00	0.00	0.00
	Middle	3649	–1.16	–1.54	–1.29	0.00	0.00	0.00
	Outside	3648	–1.00	14.92	3.70	0.00	0.00	0.00
8	Inside	20609	–3.48	–7.79	–3.86	–5.19	0.00	0.00
	Middle	20611	0.21	–2.69	–1.22	–0.81	0.00	0.00
	Outside	20613	2.97	1.16	0.76	2.58	0.00	0.00
9	Inside	20527	6.44	6.44	3.38	6.54	0.00	0.00
	Middle	20534	–1.39	–1.39	–1.31	–1.25	0.00	0.00
	Outside	20541	–9.22	–9.22	–6.01	–9.04	0.00	0.00
10	Inside	29173	–7.79	–3.48	–3.86	–5.19	0.00	0.00
	Middle	29175	–2.69	0.21	–1.22	–0.81	0.00	0.00
	Outside	29177	1.16	2.97	0.76	2.58	0.00	0.00
11	Inside	29342	–25.00	–1.37	–8.38	–2.11	0.00	0.00
	Middle	29341	–1.54	–1.16	–1.29	0.18	0.00	0.00
	Outside	29340	14.92	–1.00	3.70	1.77	0.00	0.00

TABLE 2.10.6-62
CONTAINMENT WALL STRESSES (ksi), CORNER MODEL,
EXTERNAL PRESSURE 290 psi, SECTION E

Stress Location		Node	Combined Stress Components					
			S_x	S_y	S_z	S_{xy}	S_{yz}	S_{xz}
3	Inside	12676	–25.00	–1.37	–8.38	2.11	0.00	0.00
	Middle	12675	–1.54	–1.16	–1.29	–0.18	0.00	0.00
	Outside	12674	14.92	–1.00	3.70	–1.77	0.00	0.00
4	Inside	12507	–7.79	–3.48	–3.86	5.19	0.00	0.00
	Middle	12509	–2.69	0.21	–1.22	0.81	0.00	0.00
	Outside	12511	1.16	2.97	0.76	–2.58	0.00	0.00
5	Inside	3861	6.44	6.44	3.39	–6.54	0.00	0.00
	Middle	3868	–1.39	–1.39	–1.31	1.25	0.00	0.00
	Outside	3875	–9.22	–9.22	–6.01	9.04	0.00	0.00
6	Inside	3943	–3.48	–7.79	–3.86	5.19	0.00	0.00
	Middle	3945	0.21	–2.69	–1.22	0.81	0.00	0.00
	Outside	3947	2.97	1.16	0.76	–2.58	0.00	0.00
7	Inside	4112	–1.37	–25.00	–8.38	0.00	0.00	0.00
	Middle	4111	–1.16	–1.54	–1.29	0.00	0.00	0.00
	Outside	4110	–1.00	14.92	3.70	0.00	0.00	0.00
8	Inside	21071	–3.48	–7.79	–3.86	–5.19	0.00	0.00
	Middle	21073	0.21	–2.69	–1.22	–0.81	0.00	0.00
	Outside	21075	2.97	1.16	0.76	2.58	0.00	0.00
9	Inside	20989	6.44	6.44	3.39	6.54	0.00	0.00
	Middle	20996	–1.39	–1.39	–1.31	–1.25	0.00	0.00
	Outside	21003	–9.22	–9.22	–6.01	–9.04	0.00	0.00
10	Inside	29635	–7.79	–3.48	–3.86	–5.19	0.00	0.00
	Middle	29637	–2.69	0.21	–1.22	–0.81	0.00	0.00
	Outside	29639	1.16	2.97	0.76	2.58	0.00	0.00
11	Inside	29804	–25.00	–1.37	–8.38	–2.11	0.00	0.00
	Middle	29803	–1.54	–1.16	–1.29	0.18	0.00	0.00
	Outside	29802	14.92	–1.00	3.70	1.77	0.00	0.00

2.10.6.2 Detailed Stress Analysis Summaries

This section provides the stress summary tables for each of the normal and hypothetical accident conditions and special requirement load cases for the flat and corner models. Tables 2.10.6-63 through 2.10.6-68 provide the locations of the lowest design margins for axial cross sections A through E for each load case analysis. Tables 2.10.6-63 through 2.10.6-65 summarize the results for the flat model. Tables 2.10.6-63 and 2.10.6-64 present, respectively, the normal and hypothetical accident and special requirements load cases without differential thermal expansion stresses. Table 2.10.6-65 summarizes both the normal and accident load cases for the cold environment conditions. Similarly, Tables 2.10.6-66 through 2.10.6-68 give the summary results for the corner model. Tables 2.10.6-66 and 2.10.6-67 are for the load cases (nominal conditions and hypothetical accident and special requirement conditions) without differential thermal expansion stresses. Table 2.10.6-68 summarizes the normal and accident load case results for the cold environment conditions. Each of the analyses has a label which indicates the load case classification and the model used. The three letters before the number indicate whether the analysis is a Normal Load Case (NLC), an Accident condition Load Case (ALC), or a Special requirement Load Case (SLC). After the analysis is classified, a sequential number is used, followed by an initial which indicates a Flat (F) or Corner (C) model of the cask was used.

Detailed results for the cold environment load cases are given for the locations with lowest design margins in Tables 2.10.6-69 and 2.10.6-70 for the flat and corner models, respectively.

Table 2.10.6-71 provides a listing of selected load cases with the lowest design margins. This table gives a description of each load case and provides the table number of the detailed results included in the SARP. Nodal stresses are provided for the cross sections and locations identified in Section 2.10.2.3. These detailed tables include the directional stress components, S_x, S_y, S_z, S_{xy}, S_{yz}, and S_{xz} in the global coordinate system. These components are combined to provide the principal stresses, the stress intensity and the design margin. The directional stress components for the different load cases are the combined results for the base cases, as described in Section 2.10.2.3.

TABLE 2.10.6-63
MINIMUM DESIGN MARGINS FOR NORMAL CONDITION LOAD CASES
AT ANSYS FLAT MODEL CROSS SECTIONS
WITHOUT DIFFERENTIAL THERMAL EXPANSION STRESSES

Case Label[a]	Section A[b]		Section B[b]		Section C[b]		Section D[b]		Section[b] E	
	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]
NLC-1 F	1 & 9in	8.54	3 & 7in	8.78	3 & 7in	6.65	3 & 7in	6.66	3 & 7in	6.62
NLC-2 F	5mid	5.20	8in	2.78	9in	1.53	9in	1.27	9in	1.13
NLC-3 F	9out	7.05	8in	3.01	9out	1.63	9out	1.92	9in	3.04
NLC-4 F	1out	9.82	8in	5.24	9out	2.60	9out	2.93	9out	4.16
NLC-5 F	9in	11.17	7in	6.29	9out	3.16	9out	3.51	9out	4.75
NLC-6 F	9in	6.61	8in	3.62	9out	1.89	9out	2.19	9out	3.36
NLC-7 F	9in	8.95	7in	7.55	9out	4.03	9out	4.38	7in	5.46
NLC-8 F	9in	8.95	7in	7.55	9out	4.03	9out	4.38	7in	5.46
NLC-9 F	1 & 9in	15.23	3 & 7mid	23.04	1, 5, & 9mid	26.50	2, 3, 4, 6, 7, & 8mid	28.80	all mid	34.82
NLC-10 F	9out	4.73	7in	2.60	9in	1.90	9in	1.56	9in	1.39
NLC-11 F	9out	5.80	8in	3.02	9out	2.58	9in	2.74	9in	4.08
NLC-12 F	9out	9.62	8in	5.37	9in	4.86	9in	4.97	9in	7.11
NLC-13 F	9out	12.33	8in	7.15	9out	6.17	9in	6.72	9in	9.52
NLC-14 F	9out	6.41	8in	3.69	9out	3.08	9in	3.54	2mid	4.83
NLC-15 F	8in	14.72	7in	11.01	9out	9.20	2mid	10.68	2mid	11.70
NLC-16 F	8in	14.72	7in	11.01	9out	9.20	2mid	10.68	2mid	11.70

[a]Case label is defined in Section 2.10.6.1.

[b]Section is the cross section label identified in Fig. 2.10.2-1.

[c]Transverse position in a given cross section. This position is given by number (shown in Fig. 2.10.2-1) and the wall thickness location:

- in means inside wall,
- mid means middle of the wall, and
- out means outside surface of the cask wall.

[d]Design margin.

TABLE 2.10.6-64
MINIMUM DESIGN MARGINS FOR HYPOTHETICAL ACCIDENT
AND SPECIAL REQUIREMENT CONDITION LOAD CASES
AT ANSYS FLAT MODEL TRANSVERSE CROSS SECTIONS
WITHOUT DIFFERENTIAL THERMAL EXPANSION STRESSES

Case Label[a]	Section A[b]		Section B[b]		Section C[b]		Section D[b]		Section[b] E	
	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]
ALC-17 F	1 & 9in	5.76	3 & 7out	11.22	3 & 7in	9.61	3 & 7in	10.06	3 & 7in	11.04
ALC-18 F	9out	2.95	7in	1.45	9in	0.83	9in	0.62	9in	0.52
ALC-19 F	9out	3.94	8in	1.77	9out	1.19	9in	1.42	9in	2.21
ALC-20 F	9out	3.92	8in	1.80	9out	1.20	9in	1.46	9in	2.27
ALC-21 F	9out	3.48	8in	1.61	9out	1.06	9in/out	1.33	9in	2.10
ALC-22 F	9out	3.63	8in	1.79	9out	1.16	9out	1.45	9in	2.38
ALC-23 F	9in	4.43	8in	3.18	9out	2.01	9out	2.40	2mid	3.52
ALC-24 F	9in	4.63	7in	4.16	9out	2.59	9out	3.02	2mid	4.22
ALC-25 F	9out	3.03	8in	1.26	9out	0.83	9in	0.98	9in	1.63
ALC-26 F	9in	6.92	3 & 7mid	11.32	1 & 9mid	13.09	all mid	14.27	2, 3, 4, 6, 7, & 8mid	17.35
ALC-27 F	9out	2.78	7in	1.38	9in	0.91	9in	0.69	9in	0.58
ALC-28 F	9out	3.68	8in	1.77	9out	1.46	9in	1.57	9in	2.49
ALC-29 F	9out	3.66	8in	1.79	9out	1.48	9in	1.62	9in	2.56
ALC-30 F	9out	3.27	6mid	2.54	9out	1.29	9in	1.47	9in	2.37
ALC-31 F	9out	3.41	8in	1.80	9out	1.43	9in	1.70	2mid	2.64
ALC-32 F	8in	4.55	7in	3.18	9out	2.55	9out	3.10	2mid	3.67
ALC-33 F	8in	5.02	6mid	5.64	9out	3.38	2mid	3.96	2mid	4.43
ALC-34 F	9out	2.85	8in	1.25	9out	1.01	9in	1.08	9in	1.82
ALC-35 F	1 & 9in	33.79	3 & 7in	12.17	3 & 7in	10.53	3 & 7in	10.54	3 & 7in	10.48
SLC-36 F	1 & 9in	6.30	3 & 7in	1.41	3 & 7in	1.11	3 & 7in	1.11	3 & 7in	1.11

[a]Case label is defined in Section 2.10.6.1.

[b]Section is the cross section label identified in Fig. 2.10.2-1.

[c]Transverse position in a given cross section. This position is given by number (shown in Fig. 2.10.2-1) and the wall thickness location:

- in means inside wall,
- mid means middle of the wall, and
- out means outside surface of the cask wall.

[d]Design margin.

TABLE 2.10.6-65
MINIMUM DESIGN MARGINS FOR SELECTED LOAD CASES
AT ANSYS FLAT MODEL CROSS SECTIONS
WITH COLD ENVIRONMENT DIFFERENTIAL THERMAL EXPANSION STRESSES

Case Label[a]	Section A[b]		Section B[b]		Section C[b]		Section D[b]		Section E[b]	
	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]
NLC-1 F (COLD)	1, 5, & 9mid	3.73	1 & 9mid	6.31	2, 4, 6 & 8mid	6.21	2, 4, 6, & 8mid	6.07	2, 4, 6 & 8mid	5.81
NLC-2 F (COLD)	9mid	2.78	6mid	1.91	9in	0.99	9in	0.83	8mid	0.83
NLC-9 F (COLD)	2, 4, 6 & 8mid	4.09	2, 4, 6 & 8mid	6.73	1, 2, 3, 4, 5, 6, 7, 8, & 9mid	6.94	1, 2, 3, 4, 5, 6, 7, 8 & 9mid	6.77	1, 2, 3, 4, 5, 6, 7, 8 & 9mid	6.44
NLC-10 F (COLD)	9mid	2.76	6mid	1.86	9in	1.21	9in	1.00	8mid	0.87
ALC-17 F (COLD)	1 & 9in	4.06	1 & 9in	26.55	3 & 7out	24.95	3 & 7in	14.38	3 & 7in	14.30
ALC-18 F(COLD)	5mid	2.93	7in	1.36	9in	0.67	9in	0.50	9in	0.41
ALC-25 F(COLD)	9out	3.04	8in	1.16	9in	0.76	9in	0.79	9in	1.31
ALC-26 F(COLD)	1 & 9in	4.67	3 & 7out	36.02	2, 4, 6, & 8mid	148.27	1, 5, & 9mid	82.19	1 & 9mid	42.59
ALC-27 F(COLD)	9out	2.80	7in	1.27	9in	0.74	9in	0.55	9in	0.46
ALC-34)F (COLD)	6mid	3.32	8i	1.14	9in	0.85	9in	0.88	9in	1.46

[a] Case label is defined in Section 2.10.6.1.

[b] Section is the cross section label identified in Fig. 2.10.2-1.

[c] Transverse position in a given cross section. This position is given by number (shown in Fig. 2.10.2-1) and the wall thickness location: in means inside wall; mid means middle of the wall, and out means outside surface of the cask wall.

[d] Design margin.

TABLE 2.10.6-66
MINIMUM DESIGN MARGINS FOR NORMAL CONDITION LOAD CASES
AT ANSYS CORNER MODEL TRANSVERSE CROSS SECTIONS
WITHOUT DIFFERENTIAL THERMAL EXPANSION STRESSES

Case	Section A[b]		Section B[b]		Section C[b]		Section D[b]		Section[b] E	
Label[a]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]
NLC-1 C	5 & 9in	8.62	3 &11in	8.59	3 &11in	6.48	3 &11in	6.49	3 &11in	6.45
NLC-2 C	6mid	6.04	3in	3.54	11mid	1.70	11mid	1.26	11mid	1.01
NLC-3 C	9in	8.32	3in	4.56	11mid	3.05	11mid	2.70	11mid	3.17
NLC-4 C	9in	10.36	7in	5.89	7in	4.08	7in	4.09	7in	4.43
NLC-5 C	9in	10.87	7in	6.41	7in	4.47	7in	4.48	7in	4.79
NLC-6 C	9in	6.42	3in	4.63	3 & 11mid	4.13	7in	3.51	3mid	4.03
NLC-7 C	9in	8.88	3in	7.00	7in	4.98	7in	4.98	7in	5.24
NLC-8 C	9in	8.88	3in	7.00	7in	4.98	7in	4.98	7in	5.24
NLC-9 C	5 & 9in	15.47	3 & 11in	22.89	5 & 9mid	26.51	3, 4, 6, 7, 8, 10 & 11mid	28.80	all mid	34.82
NLC-10 C	11in	6.10	8mid	3.50	11mid	1.76	11mid	1.30	11mid	1.04
NLC-11 C	10in	7.94	9mid	5.08	11mid	3.17	11mid	2.80	11mid	3.31
NLC-12 C	10in	12.26	9mid	8.71	11mid	5.72	11mid	5.10	11mid	5.90
NLC-13 C	10in	14.58	8in	11.48	11mid	7.82	11mid	6.97	11mid	8.00
NLC-14 C	10in	6.85	3mid	6.13	3mid	4.31	11mid	3.77	3mid	4.21
NLC-15 C	10in	13.67	3mid	13.03	3mid	10.29	3mid	9.86	3mid	10.50
NLC-16 C	10in	13.67	3mid	13.03	3mid	10.29	3mid	9.86	3mid	10.50

[a]Case label is defined in Section 2.10.6.1.

[b]Section is the cross section label identified in Fig. 2.10.2-1.

[c]Transverse position in a given cross section. This position is given by number (shown in Fig. 2.10.2-1) and the wall thickness location:

- in means inside wall,
- mid means middle of the wall, and
- out means outside surface of the cask wall.

[d]Design margin.

TABLE 2.10.6-67
MINIMUM DESIGN MARGINS FOR HYPOTHETICAL ACCIDENT AND SPECIAL REQUIREMENT CONDITION LOAD CASES AT ANSYS CORNER MODEL TRANSVERSE CROSS SECTIONS WITHOUT DIFFERENTIAL THERMAL EXPANSION STRESSES

Case	Section A[b]		Section B[b]		Section C[b]		Section D[b]		Section[b] E	
Label[a]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]
ALC-17 C	5 & 9in	5.85	3 & 11out	11.12	3 & 11in	9.53	3 & 11in	9.97	3 & 11in	10.93
ALC-18 C	11in	3.98	8mid	2.14	11mid	0.90	11mid	0.58	11mid	0.40
ALC-19 C	10in	5.50	8in	3.19	11mid	1.98	11mid	1.72	11mid	2.07
ALC-20 C	10in	5.13	8in	3.23	11mid	2.06	11mid	1.78	11mid	2.14
ALC-21 C	10in	4.21	9in	3.16	11mid	1.94	11in	1.65	11mid	1.99
ALC-22 C	11in	4.19	8in	3.22	3mid	2.28	11mid	1.95	3mid	2.22
ALC-23 C	9in	4.36	3mid	4.24	3mid	3.11	3mid	2.95	3mid	3.17
ALC-24 C	9in	4.58	3mid	4.87	3mid	3.71	3mid	3.57	3mid	3.86
ALC-25 C	10in	4.58	8in	2.42	11mid	1.39	11mid	1.19	11mid	1.48
ALC-26 C	5 & 9in	7.04	3 & 11mid	11.24	3, 4, 6, 7,8,10 & 11mid	13.12	all mid	14.27	3, 4, 6, 7, 8, 10 & 11mid	17.35
ALC-27 C	11in	3.68	8mid	2.11	11mid	0.91	11mid	0.59	11mid	0.41
ALC-28 C	11in	5.32	8in	3.23	11mid	2.01	11mid	1.74	11mid	2.11
ALC-29 C	10in	4.82	8in	3.28	11mid	2.10	11mid	1.81	11mid	2.18
ALC-30 C	10in	3.99	8in	2.99	11mid	1.96	11mid	1.68	11mid	2.03
ALC-31 C	10in	3.67	8in	3.28	3mid	2.32	11mid	1.98	3mid	2.25
ALC-32 C	10in	4.17	3mid	4.19	3mid	3.16	3mid	3.00	3mid	3.23
ALC-33 C	10in	4.68	3mid	4.80	3mid	3.79	3mid	3.64	3mid	3.94
ALC-34 C	10in	4.31	8in	2.44	11mid	1.41	11mid	1.21	11mid	1.50
ALC-35 C	5 & 9in	33.90	3 &11in 7in	11.91 12.17	3 &11in 7in	10.28 10.53	3 &11in 7in	10.29 10.54	3 &11in 7in	10.22 10.48
SLC-36 C	5 & 9in	6.33	3 &11in 7in	1.38 1.41	3 &11in 7in	1.07 1.11	3 &11in 7in	1.07 1.11	3 &11in 7in	1.07 1.11

[a]Case label is defined in Section 2.10.6.1.
[b]Section is the cross section label identified in Fig. 2.10.2-1.
[c]Transverse position in a given cross section. This position is given by number (shown in Fig. 2.10.2-1) and the wall thickness location:
in means inside wall,
mid means middle of the wall, and
out means outside surface of the cask wall.
[d]Design margin.

TABLE 2.10.6-68
MINIMUM DESIGN MARGINS FOR SELECTED LOAD CASES
AT ANSYS CORNER MODEL TRANSVERSE CROSS SECTIONS
WITH COLD ENVIRONMENT DIFFERENTIAL THERMAL EXPANSION STRESSES

Case Label[a]	Section A[b]		Section B[b]		Section C[b]		Section D[b]		Section E[b]	
	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]	Loc.[c]	D.M.[d]
NLC-1 C (COLD)	5 & 9mid	3.71	8mid	6.29	3 & 11out	6.14	8mid	6.01	8mid	5.75
NLC-2 C (COLD)	10mid	2.61	9mid	2.13	11mid	0.88	11mid	0.65	11mid	0.51
NLC-9 C (COLD)	4, 6, 8 & 10mid	4.09	4, 6, 8 & 10mid	6.73	3, 4, 5, 6, 7, 8, 9, 10 &11mid	6.94	3, 4, 5, 6, 7, 8, 9, 10 & 11mid	6.77	3, 4, 5, 6, 7, 8, 9, 10 & 11mid	6.44
NLC-10 C (COLD)	10mid	2.63	9mid	2.08	11mid	0.91	11mid	0.68	11mid	0.54
ALC-17 C (COLD)	5 & 9in	4.09	5 & 9in	27.16	3 & 11in	13.94	3 & 11in	13.97	3 & 11in	13.88
ALC-18 C (COLD)	11in	3.00	9mid	1.87	11mid	0.66	11mid	0.42	11mid	0.27
ALC-25 C (COLD)	10mid	3.49	9mid	2.11	11mid	1.03	11mid	0.88	11mid	1.09
ALC-26 C (COLD)	5 & 9in	4.74	3 & 11out	34.75	4, 6, 8, & 10mid	148.40	5 & 9mid	82.19	5 & 9mid	42.59
ALC-27 C (COLD)	10in	3.06	9mid	1.85	11mid	0.67	11mid	0.42	11mid	0.28
ALC-34 C (COLD)	11in	3.32	9mid	2.09	11mid	1.04	11mid	0.89	11mid	1.11

[a] Case label is defined in Section 2.10.6.1.

[b] Section is the cross section label identified in Fig. 2.10.2-1.

[c] Transverse position in a given cross section. This position is given by number (shown in Fig. 2.10.2-1) and the wall thickness location: in means inside wall; mid means middle of the wall, and out means outside surface of the cask wall.

[d] Design margin.

TABLE 2.10.6-69 CONTAINMENT WALL STRESSES (ksi), FLAT MODEL WITH COLD ENVIRONMENT DIFFERENTIAL THERMAL EXPANSION STRESSES (T= -20°F)

Stress Location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
MNOP with 1-ft end drop, drop angle of 90°															
A-1	Middle	1390	0.85	0.16	7.16	0.08	0.52	0.08	7.20	0.85	0.12	7.09	Pm	33.3	3.70
A-5	Middle	9954	0.16	0.85	7.16	0.00	0.00	0.52	7.20	0.85	0.12	7.08	Pm	33.3	3.70
A-9	Middle	18518	0.85	0.16	7.16	-0.08	-0.52	0.08	7.20	0.85	0.12	7.09	Pm	33.3	3.70
MNOP with 1-ft side drop, drop angle of 0°															
D-9	Inside	20527	-17.73	-0.21	9.61	0.12	0.00	-0.06	9.61	-0.21	-17.74	27.35	Pm+Pb	50.0	0.83
E-8	Middle	21073	0.96	-0.11	17.49	1.05	0.00	0.00	17.49	1.60	-0.75	18.24	Pm	33.3	0.83
1-ft end drop, drop angle of 90°															
A-2	Middle	1419	-0.52	-0.09	5.97	0.16	0.11	0.18	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
A-4	Middle	9983	-0.09	-0.52	5.97	0.16	0.18	0.11	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
A-6	Middle	27111	-0.09	-0.52	5.97	-0.16	-0.18	0.11	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
A-8	Middle	18547	-0.52	-0.09	5.97	-0.16	-0.11	0.18	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
1-ft side drop, drop angle of 0°															
E-8	Middle	21073	0.37	-0.15	17.21	0.65	0.00	0.00	17.21	0.80	-0.59	17.80	Pm	33.3	0.87
MNOP with 30-ft end drop, drop angle of 90°															
A-1	Inside	1383	3.64	1.72	20.28	0.71	3.07	-0.10	20.78	3.84	1.02	19.76	Pm+Pb	100.0	4.06
A-9	Inside	18511	3.64	1.72	20.28	-0.71	-3.07	-0.10	20.78	3.84	1.02	19.76	Pm+Pb	100.0	4.06
MNOP with 30-ft side drop, drop angle of 0°															
E-9	Inside	20989	-47.32	-0.53	23.66	0.30	0.00	0.00	23.66	-0.52	-47.32	70.98	Pm+Pb	100.0	0.41
MNOP with 30-ft slapdown, drop angle of 15°															
C-9	Inside	20065	-49.17	-0.60	7.48	0.34	0.14	-0.06	7.49	-0.60	-49.17	56.66	Pm+Pb	100.0	0.76
30-ft end drop, drop angle of 90°															
A-1	Inside	1383	3.39	1.65	18.28	0.68	2.61	-0.06	18.68	3.59	1.06	17.62	Pm+Pb	100.0	4.67
A-9	Inside	18511	3.39	1.65	18.28	-0.68	-2.61	-0.06	18.68	3.59	1.06	17.62	Pm+Pb	100.0	4.67
30-ft side drop, drop angle of 0°															
E-9	Inside	20989	-43.83	-0.48	24.62	0.27	0.00	0.00	24.62	-0.47	-43.83	68.46	Pm+Pb	100.0	0.46
30-ft slapdown, drop angle of 15°															
C-9	Inside	20065	-45.70	-0.55	8.45	0.31	0.14	-0.06	8.45	-0.55	-45.70	54.15	Pm+Pb	100.0	0.85

TABLE 2.10.6-70 CONTAINMENT WALL STRESSES (ksi), CORNER MODEL
WITH COLD ENVIRONMENT DIFFERENTIAL THERMAL EXPANSION STRESSES (T= -20°F)

Stress Location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
MNOP with 1-ft end drop, drop angle of 90°															
A-5	Middle	1390	0.50	0.50	7.16	-0.34	0.37	0.37	7.20	0.85	0.12	7.08	Pm	33.3	3.71
A-9	Middle	18518	0.50	0.50	7.16	0.34	-0.37	0.37	7.20	0.85	0.12	7.08	Pm	33.3	3.71
MNOP with 1-ft side drop, drop angle of 0°															
E-11	Middle	29803	1.10	-0.10	21.82	0.12	0.00	0.00	21.82	1.11	-0.11	21.93	Pm	33.3	0.52
1-ft end drop, drop angle of 90°															
A-4	Middle	9983	-0.46	-0.14	5.97	0.21	0.21	-0.05	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
A-6	Middle	1419	-0.14	-0.46	5.97	0.21	-0.05	0.21	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
A-8	Middle	18547	-0.14	-0.46	5.97	-0.21	0.05	0.21	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
A-10	Middle	27111	-0.46	-0.14	5.97	-0.21	-0.21	-0.05	5.98	-0.04	-0.57	6.55	Pm	33.3	4.09
1-ft side drop, drop angle of 0°															
E-11	Middle	29803	0.64	-0.10	21.57	0.05	0.00	0.00	21.57	0.64	-0.10	21.68	Pm	33.3	0.54
MNOP with 30-ft end drop, drop angle of 90°															
A-5	Inside	1383	2.68	2.68	20.28	-0.96	2.17	2.17	20.78	3.64	1.22	19.56	Pm+Pb	99.5	4.09
A-9	Inside	18511	2.68	2.68	20.28	0.96	-2.17	2.17	20.78	3.64	1.22	19.56	Pm+Pb	99.5	4.09
MNOP with 30-ft side drop, drop angle of 0°															
E-11	Middle	29803	2.39	-0.31	54.65	0.22	0.00	0.01	54.65	2.41	-0.33	54.98	Pm	70.0	0.27
MNOP with 30-ft slapdown, drop angle of 15°															
D-11	Middle	29341	1.99	0.02	37.22	0.13	-0.05	-0.03	37.22	1.99	0.01	37.21	Pm	70.0	0.88
30-ft end drop, drop angle of 90°															
A-5	Inside	1383	2.52	2.52	18.28	-0.87	1.84	1.84	18.68	3.39	1.26	17.43	Pm+Pb	100.0	4.74
A-9	Inside	18511	2.52	2.52	18.28	0.87	-1.84	1.84	18.68	3.39	1.26	17.43	Pm+Pb	100.0	4.74
30-ft side drop, drop angle of 0°															
E-11	Middle	29803	1.94	-0.30	54.41	0.15	0.00	0.00	54.41	1.95	-0.31	54.72	Pm	70.0	0.28
30-ft slapdown, drop angle of 15°															
D-11	Middle	29341	1.53	0.00	36.98	0.06	-0.05	-0.03	36.98	1.53	0.00	36.98	Pm	70.0	0.89

TABLE 2.10.6-71
SUMMARY OF LOAD CASE RESULTS

Analysis Label	Loading Description	SARP Table No.
NLC-1 F	MNOP with 1-ft end drop, drop angle of 90°. (ANSYS flat model)	2.10.6-72 through 2.10.6-76
NLC-1 F (COLD)	MNOP with 1-ft end drop, drop angle of 90°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-77 through 2.10.6-81
NLC-1 C	MNOP with 1-ft end drop, drop angle of 90°. (ANSYS corner model)	2.10.6-82 through 2.10.6-86
NLC-1 C (COLD)	MNOP with 1-ft end drop, drop angle of 90°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-87 through 2.10.6-91
NLC-2 F	MNOP with 1-ft side drop, drop angle of 0°. (ANSYS flat model)	2.10.6-92 through 2.10.6-96
NLC-2 F (COLD)	MNOP with 1-ft side drop, drop angle of 0°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-97 through 2.10.6-101
NLC-2 C	MNOP with 1-ft side drop, drop angle of 0°. (ANSYS corner model)	2.10.6-102 through 2.10.6-106
NLC-2 C (COLD)	MNOP with 1-ft side drop, drop angle of 0°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-107 through 2.10.6-111
NLC-3 F	MNOP with 1-ft drop, drop angle of 15°. (ANSYS flat model)	
NLC-3 C	MNOP with 1-ft drop, drop angle of 15°. (ANSYS corner model)	
NLC-4 F	MNOP with 1-ft drop, drop angle of 30°. (ANSYS flat model)	
NLC-4 C	MNOP with 1-ft drop, drop angle of 30°. (ANSYS corner model)	
NLC-5 F	MNOP with 1-ft drop, drop angle of 45°. (ANSYS flat model)	
NLC-5 C	MNOP with 1-ft drop, drop angle of 45°. (ANSYS corner model)	
NLC-6 F	MNOP with 1-ft drop, drop angle of 60°. (ANSYS flat model)	

TABLE 2.10.6-71
SUMMARY OF LOAD CASE RESULTS

Analysis Label	Loading Description	SARP Table No.
NLC-6 C	MNOP with 1-ft drop, drop angle of 60°. (ANSYS corner model)	
NLC-7 F	MNOP with 1-ft drop, drop angle of 75°. (ANSYS flat model)	
NLC-7 C	MNOP with 1-ft drop, drop angle of 75°. (ANSYS corner model)	
NLC-8 F	MNOP with 1-ft drop, drop angle of 78°. (ANSYS flat model)	2.10.6-112 through 2.10.6-116
NLC-8 C	MNOP with 1-ft drop, drop angle of 78°. (ANSYS corner model)	2.10.6-117 through 2.10.6-121
NLC-9 F	1 ft end drop, drop angle of 90°. (ANSYS flat model)	
NLC-9 F (COLD)	1 ft end drop, drop angle of 90°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-122 through 2.10.6-126
NLC-9 C	1 ft end drop, drop angle of 90°. (ANSYS corner model)	
NLC-9 C (COLD)	1 ft end drop, drop angle of 90°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-127 through 2.10.6-131
NLC-10 F	1 ft side drop, drop angle of 0°. (ANSYS flat model)	
NLC-10 F (COLD)	1 ft side drop, drop angle of 0°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-132 through 2.10.6-136
NLC-10 C	1 ft side drop, drop angle of 0°. (ANSYS corner model)	
NLC-10 C (COLD)	1 ft side drop, drop angle of 0°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-137 through 2.10.6-141
NLC-11 F	1 ft drop, drop angle of 15°. (ANSYS flat model)	
NLC-11C	1 ft drop, drop angle of 15°. (ANSYS corner model)	
NLC-12 F	1 ft drop, drop angle of 30°. (ANSYS flat model)	
NLC-12 C	1 ft drop, drop angle of 30°. (ANSYS corner model)	
NLC-13 F	1 ft drop, drop angle of 45°. (ANSYS flat model)	

TABLE 2.10.6-71
SUMMARY OF LOAD CASE RESULTS

Analysis Label	Loading Description	SARP Table No.
NLC-13 C	1 ft drop, drop angle of 45°. (ANSYS corner model)	
NLC-14 F	1 ft drop, drop angle of 60°. (ANSYS flat model)	
NLC-14 C	1 ft drop, drop angle of 60°. (ANSYS corner model)	
NLC-15 F	1 ft drop, drop angle of 75°. (ANSYS flat model)	
NLC-15 C	1 ft drop, drop angle of 75°. (ANSYS corner model)	
NLC-16 F	1 ft drop, drop angle of 78° (cask and contents center of gravity over point of impact) . (ANSYS flat model)	2.10.6-142 through 2.10.6-146
NLC-16 C	1 ft drop, drop angle of 78° (cask and contents center of gravity over point of impact) . (ANSYS corner model)	2.10.6-147 through 2.10.6-151
ALC-17 F	MNOP with 30-ft end drop, drop angle of 90°. (ANSYS flat model)	2.10.6-152 through 2.10.6-156
ALC-17 F (COLD)	MNOP with 30-ft end drop, drop angle of 90°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-157 through 2.10.6-161
ALC-17 C	MNOP with 30-ft end drop, drop angle of 90°. (ANSYS corner model)	2.10.6-162 through 2.10.6-166
ALC-17 C (COLD)	MNOP with 30-ft end drop, drop angle of 90°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-167 through 2.10.6-171
ALC-18 F	MNOP with 30-ft side drop, drop angle of 0°. (ANSYS flat model)	2.10.6-172 through 2.10.6-176
ALC-18 F (COLD)	MNOP with 30-ft side drop, drop angle of 0°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-177 through 2.10.6-181
ALC-18 C	MNOP with 30-ft side drop, drop angle of 0°. (ANSYS corner model)	2.10.6-182 through 2.10.6-186
ALC-18 C (COLD)	MNOP with 30-ft side drop, drop angle of 0°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-187 through 2.10.6-191

TABLE 2.10.6-71
SUMMARY OF LOAD CASE RESULTS

Analysis Label	Loading Description	SARP Table No.
ALC-19 F	MNOP with 30-ft drop, drop angle of 15°. (ANSYS flat model)	
ALC-19 C	MNOP with 30-ft drop, drop angle of 15°. (ANSYS corner model)	
ALC-20 F	MNOP with 30-ft drop, drop angle of 30°. (ANSYS flat model)	
ALC-20 C	MNOP with 30-ft drop, drop angle of 30°. (ANSYS corner model)	
ALC-21 F	MNOP with 30-ft drop, drop angle of 45°. (ANSYS flat model)	
ALC-21 C	MNOP with 30-ft drop, drop angle of 45°. (ANSYS corner model)	
ALC-22 F	MNOP with 30-ft drop, drop angle of 60°. (ANSYS flat model)	
ALC-22 C	MNOP with 30-ft drop, drop angle of 60°. (ANSYS corner model)	
ALC-23 F	MNOP with 30-ft drop, drop angle of 75°. (ANSYS flat model)	
ALC-23 C	MNOP with 30-ft drop, drop angle of 75°. (ANSYS corner model)	
ALC-24 F	MNOP with 30-ft drop, drop angle of 78° (cask and contents center of gravity over point of impact) . (ANSYS flat model)	2.10.6-192 through 2.10.6-196
ALC-24 C	MNOP with 30-ft drop, drop angle of 78° (cask and contents center of gravity over point of impact) . (ANSYS corner model)	2.10.6-197 through 2.10.6-201
ALC-25 F	MNOP with 30-ft slapdown, drop angle of 15°. (ANSYS flat model)	2.10.6-202 through 2.10.6-206
ALC-25 F (COLD)	MNOP with 30-ft slapdown, drop angle of 15°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-207 through 2.10.6-211
ALC-25 C	MNOP with 30-ft slapdown, drop angle of 15°. (ANSYS corner model)	2.10.6-212 through 2.10.6-216
ALC-25 C (COLD)	MNOP with 30-ft slapdown, drop angle of 15°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-217 through 2.10.6-221

TABLE 2.10.6-71
SUMMARY OF LOAD CASE RESULTS

Analysis Label	Loading Description	SARP Table No.
ALC-26 F	30 ft end drop, drop angle of 90°. (ANSYS flat model)	2.10.6-222 through 2.10.6-226
ALC-26 F (COLD)	30 ft end drop, drop angle of 90°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	
ALC-26 C	30 ft end drop, drop angle of 90°. (ANSYS corner model)	2.10.6-227 through 2.10.6-231
ALC-26 C (COLD)	30 ft end drop, drop angle of 90°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	
ALC-27 F	30 ft side drop, drop angle of 0°. (ANSYS flat model)	
ALC-27 F (COLD)	30 ft side drop, drop angle of 0°. (ANSYS flat model)—includes cold environment differential thermal expansion stresses	2.10.6-232 through 2.10.6-236
ALC-27 C	30 ft side drop, drop angle of 0°. (ANSYS corner model)	
ALC-27 C (COLD)	30 ft side drop, drop angle of 0°. (ANSYS corner model)—includes cold environment differential thermal expansion stresses	2.10.6-237 through 2.10.6-241
ALC-28 F	30 ft drop, drop angle of 15°. (ANSYS flat model)	
ALC-28 C	30 ft drop, drop angle of 15°. (ANSYS corner model)	
ALC-29 F	30 ft drop, drop angle of 30°. (ANSYS flat model)	
ALC-29 C	30 ft drop, drop angle of 30°. (ANSYS corner model)	
ALC-30 F	30 ft drop, drop angle of 45°. (ANSYS flat model)	
ALC-30 C	30 ft drop, drop angle of 45°. (ANSYS corner model)	
ALC-31 F	30 ft drop, drop angle of 60°. (ANSYS flat model)	
ALC-31 C	30 ft drop, drop angle of 60°. (ANSYS corner model)	
ALC-32 F	30 ft drop, drop angle of 75°. (ANSYS flat model)	
ALC-32 C	30 ft drop, drop angle of 75°. (ANSYS corner model)	
ALC-33 F	30 ft drop, drop angle of 78° (cask and contents center of gravity over point of impact) . (ANSYS flat model)	2.10.6-242 through 2.10.6-246

TABLE 2.10.6-71
SUMMARY OF LOAD CASE RESULTS

Analysis Label	Loading Description	SARP Table No.
ALC-33 C	30 ft drop, drop angle of 78° (cask and contents center of gravity over point of impact) . (ANSYS corner model)	2.10.6-247 through 2.10.6-251
ALC-34 F	30 ft slapdown, drop angle of 15°. (ANSYS flat model)	
ALC-34 F (COLD)	30 ft slapdown, drop angle of 15°. (ANSYS flat model) - includes cold environment differential thermal expansion stresses	2.10.6-252 through 2.10.6-256
ALC-34 C	30 ft slapdown, drop angle of 15°. (ANSYS corner model)	
ALC-34 C (COLD)	30 ft slapdown, drop angle of 15°. (ANSYS corner model) - includes cold environment differential thermal expansion stresses	2.10.6-257 through 2.10.6-261
ALC-35 F	Fire Test Simulation - Uniform internal pressure of 90.2 psig with allowables for maximum containment boundary temperature of 780°F. (ANSYS flat model)	2.10.6-262 through 2.10.6-266
ALC-35 C	Fire Test Simulation - Uniform internal pressure of 90.2 psig with allowables for maximum containment boundary temperature of 780°F. (ANSYS corner model)	2.10.6-267 through 2.10.6-271
SLC-36 F	Uniform external pressure of 290 psig. (ANSYS flat model)	2.10.6-272 through 2.10.6-276
SLC-36 C	Uniform external pressure of 290 psig. (ANSYS corner model)	2.10.6-277 through 2.10.6-281

TABLE 2.10.6-72 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= 200°F)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	1383	1.08	0.47	5.15	0.20	1.10	-0.05	5.39	1.13	0.17	5.22	Pm+Pb	49.8	8.54
	Middle	1390	0.85	0.16	1.76	0.08	0.52	0.08	1.92	0.84	0.00	1.92	Pm	33.2	16.31
	Outside	1397	0.77	0.00	-1.52	0.08	0.23	0.69	0.98	0.00	-1.74	2.72	Pm+Pb	49.8	17.31
2	Inside	1417	0.99	-0.08	3.02	-0.03	0.62	0.02	3.14	0.99	-0.20	3.34	Pm+Pb	49.8	13.91
	Middle	1419	-0.34	-0.12	0.77	0.08	0.17	0.25	0.86	-0.15	-0.40	1.26	Pm	33.2	25.26
	Outside	1421	-1.50	-0.09	-1.43	0.18	-0.03	0.55	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.8	24.33
3	Inside	1466	0.07	0.07	1.11	-0.29	0.32	0.32	1.25	0.36	-0.36	1.61	Pm+Pb	49.8	29.93
	Middle	1465	-0.30	-0.30	-0.13	0.21	0.39	0.39	0.44	-0.51	-0.66	1.11	Pm	33.2	29.04
	Outside	1464	-0.55	-0.55	-1.26	0.58	0.54	0.54	0.38	-1.13	-1.62	2.00	Pm+Pb	49.8	23.87
4	Inside	9981	-0.08	0.99	3.02	-0.03	0.02	0.62	3.14	0.99	-0.20	3.34	Pm+Pb	49.8	13.91
	Middle	9983	-0.12	-0.34	0.77	0.08	0.25	0.17	0.86	-0.15	-0.40	1.26	Pm	33.2	25.26
	Outside	9985	-0.09	-1.50	-1.43	0.18	0.55	-0.03	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.8	24.33
5	Inside	9947	0.47	1.08	5.15	0.00	0.00	1.10	5.39	1.08	0.22	5.17	Pm+Pb	49.8	8.62
	Middle	9954	0.16	0.85	1.76	0.00	0.00	0.52	1.91	0.85	0.01	1.91	Pm	33.2	16.42
	Outside	9961	0.00	0.77	-1.52	0.00	0.00	0.23	0.77	0.03	-1.56	2.32	Pm+Pb	49.8	20.44
6	Inside	27109	-0.08	0.99	3.02	0.03	-0.02	0.62	3.14	0.99	-0.20	3.34	Pm+Pb	49.8	13.91
	Middle	27111	-0.12	-0.34	0.77	-0.08	-0.25	0.17	0.86	-0.15	-0.40	1.26	Pm	33.2	25.26
	Outside	27113	-0.09	-1.50	-1.43	-0.18	-0.55	-0.03	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.8	24.33
7	Inside	18594	0.07	0.07	1.11	0.29	-0.32	0.32	1.25	0.36	-0.36	1.61	Pm+Pb	49.8	29.93
	Middle	18593	-0.30	-0.30	-0.13	-0.21	-0.39	0.39	0.44	-0.51	-0.66	1.11	Pm	33.2	29.04
	Outside	18592	-0.55	-0.55	-1.26	-0.58	-0.54	0.54	0.38	-1.13	-1.62	2.00	Pm+Pb	49.8	23.87
8	Inside	18545	0.99	-0.08	3.02	0.03	-0.62	0.02	3.14	0.99	-0.20	3.34	Pm+Pb	49.8	13.91
	Middle	18547	-0.34	-0.12	0.77	-0.08	-0.17	0.25	0.86	-0.15	-0.40	1.26	Pm	33.2	25.26
	Outside	18549	-1.50	-0.09	-1.43	-0.18	0.03	0.55	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.8	24.33
9	Inside	18511	1.08	0.47	5.15	-0.20	-1.10	-0.05	5.39	1.13	0.17	5.22	Pm+Pb	49.8	8.54
	Middle	18518	0.85	0.16	1.76	-0.08	-0.52	0.08	1.92	0.84	0.00	1.92	Pm	33.2	16.31
	Outside	18525	0.77	0.00	-1.52	-0.08	-0.23	0.69	0.98	0.00	-1.74	2.72	Pm+Pb	49.8	17.31

TABLE 2.10.6-73 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= 200°F)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	2748	-3.41	-0.30	-2.62	-0.12	0.02	-0.01	-0.29	-2.62	-3.42	3.13	Pm+Pb	49.8	14.94
	Middle	2755	0.35	-0.20	-1.04	-0.12	0.04	0.03	0.37	-0.22	-1.04	1.42	Pm	33.2	22.41
	Outside	2762	4.19	0.09	0.81	-0.14	0.03	0.10	4.19	0.81	0.08	4.11	Pm+Pb	49.8	11.11
2	Inside	2965	2.25	0.01	-0.55	-0.44	-0.01	-0.30	2.36	-0.07	-0.59	2.95	Pm+Pb	49.8	15.91
	Middle	2967	0.28	-0.16	-1.16	-0.29	-0.04	0.15	0.44	-0.31	-1.18	1.62	Pm	33.2	19.54
	Outside	2969	-1.04	-0.07	-1.29	-0.11	0.06	0.54	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.8	28.87
3	Inside	3053	2.40	2.40	0.21	-2.55	0.01	0.01	4.95	0.21	-0.15	5.09	Pm+Pb	49.8	8.78
	Middle	3052	0.20	0.20	-1.21	-0.19	0.04	0.04	0.39	0.02	-1.21	1.60	Pm	33.2	19.73
	Outside	3051	-1.54	-1.54	-2.77	1.53	0.04	0.04	-0.01	-2.77	-3.06	3.05	Pm+Pb	49.8	15.32
4	Inside	11529	0.01	2.25	-0.55	-0.44	-0.30	-0.01	2.36	-0.07	-0.59	2.95	Pm+Pb	49.8	15.91
	Middle	11531	-0.16	0.28	-1.16	-0.29	0.15	-0.04	0.44	-0.31	-1.18	1.62	Pm	33.2	19.54
	Outside	11533	-0.07	-1.04	-1.29	-0.11	0.54	0.06	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.8	28.87
5	Inside	11312	-0.30	-3.41	-2.62	0.00	0.00	0.02	-0.30	-2.62	-3.41	3.12	Pm+Pb	49.8	14.98
	Middle	11319	-0.20	0.35	-1.04	0.00	0.00	0.04	0.35	-0.20	-1.04	1.39	Pm	33.2	22.82
	Outside	11326	0.09	4.19	0.81	0.00	0.00	0.03	4.19	0.81	0.09	4.10	Pm+Pb	49.8	11.14
6	Inside	28657	0.01	2.25	-0.55	0.44	0.30	-0.01	2.36	-0.07	-0.59	2.95	Pm+Pb	49.8	15.91
	Middle	28659	-0.16	0.28	-1.16	0.29	-0.15	-0.04	0.44	-0.31	-1.18	1.62	Pm	33.2	19.54
	Outside	28661	-0.07	-1.04	-1.29	0.11	-0.54	0.06	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.8	28.87
7	Inside	20181	2.40	2.40	0.21	2.55	-0.01	0.01	4.95	0.21	-0.15	5.09	Pm+Pb	49.8	8.78
	Middle	20180	0.20	0.20	-1.21	0.19	-0.04	0.04	0.39	0.02	-1.21	1.60	Pm	33.2	19.73
	Outside	20179	-1.54	-1.54	-2.77	-1.53	-0.04	0.04	-0.01	-2.77	-3.06	3.05	Pm+Pb	49.8	15.32
8	Inside	20093	2.25	0.01	-0.55	0.44	0.01	-0.30	2.36	-0.07	-0.59	2.95	Pm+Pb	49.8	15.91
	Middle	20095	0.28	-0.16	-1.16	0.29	0.04	0.15	0.44	-0.31	-1.18	1.62	Pm	33.2	19.54
	Outside	20097	-1.04	-0.07	-1.29	0.11	-0.06	0.54	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.8	28.87
9	Inside	19876	-3.41	-0.30	-2.62	0.12	-0.02	-0.01	-0.29	-2.62	-3.42	3.13	Pm+Pb	49.8	14.94
	Middle	19883	0.35	-0.20	-1.04	0.12	-0.04	0.03	0.37	-0.22	-1.04	1.42	Pm	33.2	22.41
	Outside	19890	4.19	0.09	0.81	0.14	-0.03	0.10	4.19	0.81	0.08	4.11	Pm+Pb	49.8	11.11

TABLE 2.10.6-74 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= 200°F)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	2937	-3.47	-0.05	-2.17	-0.03	0.00	0.00	-0.05	-2.17	-3.47	3.42	Pm+Pb	49.8	13.55
	Middle	2944	0.76	-0.04	-0.90	-0.03	0.00	0.00	0.76	-0.04	-0.90	1.66	Pm	33.2	19.00
	Outside	2951	4.99	-0.03	0.37	-0.03	0.00	0.00	4.99	0.37	-0.03	5.02	Pm+Pb	49.8	8.91
2	Inside	3019	3.10	0.04	-0.17	-0.60	0.00	0.01	3.21	-0.07	-0.17	3.39	Pm+Pb	49.8	13.71
	Middle	3021	0.60	0.04	-0.92	-0.40	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.2	18.21
	Outside	3023	-1.32	0.06	-1.49	-0.25	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.8	30.17
3	Inside	3188	3.16	3.16	0.76	-3.25	0.00	0.00	6.41	0.76	-0.10	6.51	Pm+Pb	49.8	6.65
	Middle	3187	0.23	0.23	-0.96	-0.22	0.00	0.00	0.46	0.01	-0.96	1.42	Pm	33.2	22.42
	Outside	3186	-1.82	-1.82	-2.18	1.92	0.00	0.00	0.10	-2.18	-3.75	3.85	Pm+Pb	49.8	11.94
4	Inside	11583	0.04	3.10	-0.17	-0.60	0.01	0.00	3.21	-0.07	-0.17	3.39	Pm+Pb	49.8	13.71
	Middle	11585	0.04	0.60	-0.92	-0.40	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.2	18.21
	Outside	11587	0.06	-1.32	-1.49	-0.25	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.8	30.17
5	Inside	11501	-0.05	-3.47	-2.17	0.00	0.00	0.00	-0.05	-2.17	-3.47	3.42	Pm+Pb	49.8	13.55
	Middle	11508	-0.04	0.76	-0.90	0.00	0.00	0.00	0.76	-0.04	-0.90	1.66	Pm	33.2	19.01
	Outside	11515	-0.03	4.99	0.37	0.00	0.00	0.00	4.99	0.37	-0.03	5.02	Pm+Pb	49.8	8.92
6	Inside	28711	0.04	3.10	-0.17	0.60	-0.01	0.00	3.21	-0.07	-0.17	3.39	Pm+Pb	49.8	13.71
	Middle	28713	0.04	0.60	-0.92	0.40	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.2	18.21
	Outside	28715	0.06	-1.32	-1.49	0.25	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.8	30.17
7	Inside	20316	3.16	3.16	0.76	3.25	0.00	0.00	6.41	0.76	-0.10	6.51	Pm+Pb	49.8	6.65
	Middle	20315	0.23	0.23	-0.96	0.22	0.00	0.00	0.46	0.01	-0.96	1.42	Pm	33.2	22.42
	Outside	20314	-1.82	-1.82	-2.18	-1.92	0.00	0.00	0.10	-2.18	-3.75	3.85	Pm+Pb	49.8	11.94
8	Inside	20147	3.10	0.04	-0.17	0.60	0.00	0.01	3.21	-0.07	-0.17	3.39	Pm+Pb	49.8	13.71
	Middle	20149	0.60	0.04	-0.92	0.40	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.2	18.21
	Outside	20151	-1.32	0.06	-1.49	0.25	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.8	30.17
9	Inside	20065	-3.47	-0.05	-2.17	0.03	0.00	0.00	-0.05	-2.17	-3.47	3.42	Pm+Pb	49.8	13.55
	Middle	20072	0.76	-0.04	-0.90	0.03	0.00	0.00	0.76	-0.04	-0.90	1.66	Pm	33.2	19.00
	Outside	20079	4.99	-0.03	0.37	0.03	0.00	0.00	4.99	0.37	-0.03	5.02	Pm+Pb	49.8	8.91

TABLE 2.10.6-75 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= 200°F)
SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	3399	-3.47	-0.05	-2.08	-0.03	0.00	0.00	-0.05	-2.08	-3.47	3.42	Pm+Pb	49.8	13.56
	Middle	3406	0.76	-0.04	-0.81	-0.03	0.00	0.00	0.76	-0.04	-0.81	1.57	Pm	33.2	20.19
	Outside	3413	4.99	-0.03	0.46	-0.03	0.00	0.00	4.99	0.46	-0.03	5.02	Pm+Pb	49.8	8.93
2	Inside	3481	3.10	0.04	-0.08	-0.60	0.00	-0.01	3.21	-0.07	-0.08	3.29	Pm+Pb	49.8	14.12
	Middle	3483	0.60	0.04	-0.83	-0.40	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.2	19.28
	Outside	3485	-1.32	0.06	-1.40	-0.25	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.8	32.08
3	Inside	3650	3.15	3.15	0.86	-3.25	0.00	0.00	6.41	0.86	-0.10	6.50	Pm+Pb	49.8	6.66
	Middle	3649	0.23	0.23	-0.87	-0.22	0.00	0.00	0.46	0.01	-0.87	1.33	Pm	33.2	24.02
	Outside	3648	-1.82	-1.82	-2.09	1.92	0.00	0.00	0.10	-2.09	-3.74	3.85	Pm+Pb	49.8	11.95
4	Inside	12045	0.04	3.10	-0.08	-0.60	-0.01	0.00	3.21	-0.07	-0.08	3.29	Pm+Pb	49.8	14.12
	Middle	12047	0.04	0.60	-0.83	-0.40	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.2	19.28
	Outside	12049	0.06	-1.32	-1.40	-0.25	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.8	32.08
5	Inside	11963	-0.05	-3.47	-2.08	0.00	0.00	0.00	-0.05	-2.08	-3.47	3.42	Pm+Pb	49.8	13.56
	Middle	11970	-0.04	0.76	-0.81	0.00	0.00	0.00	0.76	-0.04	-0.81	1.57	Pm	33.2	20.21
	Outside	11977	-0.03	4.99	0.46	0.00	0.00	0.00	4.99	0.46	-0.03	5.02	Pm+Pb	49.8	8.93
6	Inside	29173	0.04	3.10	-0.08	0.60	0.01	0.00	3.21	-0.07	-0.08	3.29	Pm+Pb	49.8	14.12
	Middle	29175	0.04	0.60	-0.83	0.40	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.2	19.28
	Outside	29177	0.06	-1.32	-1.40	0.25	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.8	32.08
7	Inside	20778	3.15	3.15	0.86	3.25	0.00	0.00	6.41	0.86	-0.10	6.50	Pm+Pb	49.8	6.66
	Middle	20777	0.23	0.23	-0.87	0.22	0.00	0.00	0.46	0.01	-0.87	1.33	Pm	33.2	24.02
	Outside	20776	-1.82	-1.82	-2.09	-1.92	0.00	0.00	0.10	-2.09	-3.74	3.85	Pm+Pb	49.8	11.95
8	Inside	20609	3.10	0.04	-0.08	0.60	0.00	-0.01	3.21	-0.07	-0.08	3.29	Pm+Pb	49.8	14.12
	Middle	20611	0.60	0.04	-0.83	0.40	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.2	19.28
	Outside	20613	-1.32	0.06	-1.40	0.25	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.8	32.08
9	Inside	20527	-3.47	-0.05	-2.08	0.03	0.00	0.00	-0.05	-2.08	-3.47	3.42	Pm+Pb	49.8	13.56
	Middle	20534	0.76	-0.04	-0.81	0.03	0.00	0.00	0.76	-0.04	-0.81	1.57	Pm	33.2	20.19
	Outside	20541	4.99	-0.03	0.46	0.03	0.00	0.00	4.99	0.46	-0.03	5.02	Pm+Pb	49.8	8.93

TABLE 2.10.6-76 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= 200°F)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3861	-3.48	-0.05	-1.89	-0.03	0.00	0.00	-0.05	-1.89	-3.49	3.44	Pm+Pb	49.8	13.50
	Middle	3868	0.75	-0.04	-0.62	-0.03	0.00	0.00	0.75	-0.04	-0.62	1.37	Pm	33.2	23.23
	Outside	3875	4.98	-0.03	0.65	-0.03	0.00	0.00	4.98	0.65	-0.03	5.01	Pm+Pb	49.8	8.93
2	Inside	3943	3.09	0.04	0.10	-0.60	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.8	14.20
	Middle	3945	0.59	0.04	-0.65	-0.40	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.2	21.90
	Outside	3947	-1.32	0.06	-1.21	-0.25	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.8	32.87
3	Inside	4112	3.14	3.14	1.01	-3.27	0.00	0.00	6.41	1.01	-0.13	6.54	Pm+Pb	49.8	6.62
	Middle	4111	0.23	0.23	-0.68	-0.23	0.00	0.00	0.46	0.00	-0.68	1.14	Pm	33.2	28.16
	Outside	4110	-1.83	-1.83	-1.88	1.92	0.00	0.00	0.10	-1.88	-3.75	3.85	Pm+Pb	49.8	11.95
4	Inside	12507	0.04	3.09	0.10	-0.60	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.8	14.20
	Middle	12509	0.04	0.59	-0.65	-0.40	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.2	21.90
	Outside	12511	0.06	-1.32	-1.21	-0.25	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.8	32.87
5	Inside	12425	-0.05	-3.48	-1.89	0.00	0.00	0.00	-0.05	-1.89	-3.48	3.43	Pm+Pb	49.8	13.50
	Middle	12432	-0.04	0.75	-0.62	0.00	0.00	0.00	0.75	-0.04	-0.62	1.37	Pm	33.2	23.25
	Outside	12439	-0.03	4.98	0.65	0.00	0.00	0.00	4.98	0.65	-0.03	5.01	Pm+Pb	49.8	8.93
6	Inside	29635	0.04	3.09	0.10	0.60	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.8	14.20
	Middle	29637	0.04	0.59	-0.65	0.40	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.2	21.90
	Outside	29639	0.06	-1.32	-1.21	0.25	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.8	32.87
7	Inside	21240	3.14	3.14	1.01	3.27	0.00	0.00	6.41	1.01	-0.13	6.54	Pm+Pb	49.8	6.62
	Middle	21239	0.23	0.23	-0.68	0.23	0.00	0.00	0.46	0.00	-0.68	1.14	Pm	33.2	28.16
	Outside	21238	-1.83	-1.83	-1.88	-1.92	0.00	0.00	0.10	-1.88	-3.75	3.85	Pm+Pb	49.8	11.95
8	Inside	21071	3.09	0.04	0.10	0.60	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.8	14.20
	Middle	21073	0.59	0.04	-0.65	0.40	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.2	21.90
	Outside	21075	-1.32	0.06	-1.21	0.25	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.8	32.87
9	Inside	20989	-3.48	-0.05	-1.89	0.03	0.00	0.00	-0.05	-1.89	-3.49	3.44	Pm+Pb	49.8	13.50
	Middle	20996	0.75	-0.04	-0.62	0.03	0.00	0.00	0.75	-0.04	-0.62	1.37	Pm	33.2	23.23
	Outside	21003	4.98	-0.03	0.65	0.03	0.00	0.00	4.98	0.65	-0.03	5.01	Pm+Pb	49.8	8.93

TABLE 2.10.6-77 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= -20°F)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	1383	1.08	0.47	10.55	0.20	1.10	-0.05	10.67	1.14	0.29	10.37	Pm+Pb	50.00	3.82
	Middle	1390	0.85	0.16	7.16	0.08	0.52	0.08	7.20	0.85	0.12	7.09	Pm	33.30	3.70
	Outside	1397	0.77	0.00	3.88	0.08	0.23	0.69	4.04	0.62	-0.02	4.06	Pm+Pb	50.00	11.32
2	Inside	1417	0.99	-0.08	8.42	-0.03	0.62	0.02	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	1419	-0.34	-0.12	6.17	0.08	0.17	0.25	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	1421	-1.50	-0.09	3.97	0.18	-0.03	0.55	4.02	-0.06	-1.58	5.60	Pm+Pb	50.00	7.93
3	Inside	1466	0.07	0.07	6.51	-0.29	0.32	0.32	6.54	0.36	-0.25	6.79	Pm+Pb	50.00	6.36
	Middle	1465	-0.30	-0.30	5.27	0.21	0.39	0.39	5.33	-0.14	-0.50	5.83	Pm	33.30	4.71
	Outside	1464	-0.55	-0.55	4.14	0.58	0.54	0.54	4.27	-0.11	-1.13	5.41	Pm+Pb	50.00	8.25
4	Inside	9981	-0.08	0.99	8.42	-0.03	0.02	0.62	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	9983	-0.12	-0.34	6.17	0.08	0.25	0.17	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	9985	-0.09	-1.50	3.97	0.18	0.55	-0.03	4.02	-0.06	-1.58	5.60	Pm+Pb	50.00	7.93
5	Inside	9947	0.47	1.08	10.55	0.00	0.00	1.10	10.67	1.08	0.35	10.32	Pm+Pb	50.00	3.85
	Middle	9954	0.16	0.85	7.16	0.00	0.00	0.52	7.20	0.85	0.12	7.08	Pm	33.30	3.71
	Outside	9961	0.00	0.77	3.88	0.00	0.00	0.23	3.89	0.77	-0.02	3.91	Pm+Pb	50.00	11.79
6	Inside	27109	-0.08	0.99	8.42	0.03	-0.02	0.62	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	27111	-0.12	-0.34	6.17	-0.08	-0.25	0.17	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	27113	-0.09	-1.50	3.97	-0.18	-0.55	-0.03	4.02	-0.06	-1.58	5.60	Pm+Pb	50.00	7.93
7	Inside	18594	0.07	0.07	6.51	0.29	-0.32	0.32	6.54	0.36	-0.25	6.79	Pm+Pb	50.00	6.36
	Middle	18593	-0.30	-0.30	5.27	-0.21	-0.39	0.39	5.33	-0.14	-0.50	5.83	Pm	33.30	4.71
	Outside	18592	-0.55	-0.55	4.14	-0.58	-0.54	0.54	4.27	-0.11	-1.13	5.41	Pm+Pb	50.00	8.25
8	Inside	18545	0.99	-0.08	8.42	0.03	-0.62	0.02	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	18547	-0.34	-0.12	6.17	-0.08	-0.17	0.25	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	18549	-1.50	-0.09	3.97	-0.18	0.03	0.55	4.02	-0.06	-1.58	5.60	Pm+Pb	50.00	7.93
9	Inside	18511	1.08	0.47	10.55	-0.20	-1.10	-0.05	10.67	1.14	0.29	10.37	Pm+Pb	50.00	3.82
	Middle	18518	0.85	0.16	7.16	-0.08	-0.52	0.08	7.20	0.85	0.12	7.09	Pm	33.30	3.70
	Outside	18525	0.77	0.00	3.88	-0.08	-0.23	0.69	4.04	0.62	-0.02	4.06	Pm+Pb	50.00	11.32

TABLE 2.10.6-78 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= -20°F)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	2748	-3.41	-0.30	2.78	-0.12	0.02	-0.01	2.78	-0.29	-3.42	6.19	Pm+Pb	50.00	7.07
	Middle	2755	0.35	-0.20	4.36	-0.12	0.04	0.03	4.36	0.37	-0.22	4.58	Pm	33.30	6.27
	Outside	2762	4.19	0.09	6.21	-0.14	0.03	0.10	6.22	4.19	0.08	6.13	Pm+Pb	50.00	7.15
2	Inside	2965	2.25	0.01	4.85	-0.44	-0.01	-0.30	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	2967	0.28	-0.16	4.24	-0.29	-0.04	0.15	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	2969	-1.04	-0.07	4.11	-0.11	0.06	0.54	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
3	Inside	3053	2.40	2.40	5.61	-2.55	0.01	0.01	5.61	4.95	-0.15	5.76	Pm+Pb	50.00	7.68
	Middle	3052	0.20	0.20	4.19	-0.19	0.04	0.04	4.19	0.39	0.01	4.17	Pm	33.30	6.98
	Outside	3051	-1.54	-1.54	2.63	1.53	0.04	0.04	2.63	-0.01	-3.06	5.69	Pm+Pb	50.00	7.79
4	Inside	11529	0.01	2.25	4.85	-0.44	-0.30	-0.01	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	11531	-0.16	0.28	4.24	-0.29	0.15	-0.04	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	11533	-0.07	-1.04	4.11	-0.11	0.54	0.06	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
5	Inside	11312	-0.30	-3.41	2.78	0.00	0.00	0.02	2.78	-0.30	-3.41	6.19	Pm+Pb	50.00	7.08
	Middle	11319	-0.20	0.35	4.36	0.00	0.00	0.04	4.36	0.35	-0.20	4.56	Pm	33.30	6.31
	Outside	11326	0.09	4.19	6.21	0.00	0.00	0.03	6.21	4.19	0.09	6.12	Pm+Pb	50.00	7.17
6	Inside	28657	0.01	2.25	4.85	0.44	0.30	-0.01	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	28659	-0.16	0.28	4.24	0.29	-0.15	-0.04	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	28661	-0.07	-1.04	4.11	0.11	-0.54	0.06	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
7	Inside	20181	2.40	2.40	5.61	2.55	-0.01	0.01	5.61	4.95	-0.15	5.76	Pm+Pb	50.00	7.68
	Middle	20180	0.20	0.20	4.19	0.19	-0.04	0.04	4.19	0.39	0.01	4.17	Pm	33.30	6.98
	Outside	20179	-1.54	-1.54	2.63	-1.53	-0.04	0.04	2.63	-0.01	-3.06	5.69	Pm+Pb	50.00	7.79
8	Inside	20093	2.25	0.01	4.85	0.44	0.01	-0.30	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	20095	0.28	-0.16	4.24	0.29	0.04	0.15	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	20097	-1.04	-0.07	4.11	0.11	-0.06	0.54	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
9	Inside	19876	-3.41	-0.30	2.78	0.12	-0.02	-0.01	2.78	-0.29	-3.42	6.19	Pm+Pb	50.00	7.07
	Middle	19883	0.35	-0.20	4.36	0.12	-0.04	0.03	4.36	0.37	-0.22	4.58	Pm	33.30	6.27
	Outside	19890	4.19	0.09	6.21	0.14	-0.03	0.10	6.22	4.19	0.08	6.13	Pm+Pb	50.00	7.15

TABLE 2.10.6-79 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= -20°F)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	2937	-3.47	-0.05	3.23	-0.03	0.00	0.00	3.23	-0.05	-3.47	6.71	Pm+Pb	50.00	6.46
	Middle	2944	0.76	-0.04	4.50	-0.03	0.00	0.00	4.50	0.76	-0.04	4.54	Pm	33.30	6.33
	Outside	2951	4.99	-0.03	5.77	-0.03	0.00	0.00	5.77	4.99	-0.03	5.80	Pm+Pb	50.00	7.62
2	Inside	3019	3.10	0.04	5.23	-0.60	0.00	0.01	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	3021	0.60	0.04	4.48	-0.40	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	3023	-1.32	0.06	3.91	-0.25	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
3	Inside	3188	3.16	3.16	6.16	-3.25	0.00	0.00	6.41	6.16	-0.10	6.51	Pm+Pb	50.00	6.68
	Middle	3187	0.23	0.23	4.44	-0.22	0.00	0.00	4.44	0.46	0.01	4.43	Pm	33.30	6.52
	Outside	3186	-1.82	-1.82	3.22	1.92	0.00	0.00	3.22	0.10	-3.75	6.97	Pm+Pb	50.00	6.18
4	Inside	11583	0.04	3.10	5.23	-0.60	0.01	0.00	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	11585	0.04	0.60	4.48	-0.40	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	11587	0.06	-1.32	3.91	-0.25	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
5	Inside	11501	-0.05	-3.47	3.23	0.00	0.00	0.00	3.23	-0.05	-3.47	6.70	Pm+Pb	50.00	6.46
	Middle	11508	-0.04	0.76	4.50	0.00	0.00	0.00	4.50	0.76	-0.04	4.54	Pm	33.30	6.33
	Outside	11515	-0.03	4.99	5.77	0.00	0.00	0.00	5.77	4.99	-0.03	5.80	Pm+Pb	50.00	7.62
6	Inside	28711	0.04	3.10	5.23	0.60	-0.01	0.00	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	28713	0.04	0.60	4.48	0.40	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	28715	0.06	-1.32	3.91	0.25	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
7	Inside	20316	3.16	3.16	6.16	3.25	0.00	0.00	6.41	6.16	-0.10	6.51	Pm+Pb	50.00	6.68
	Middle	20315	0.23	0.23	4.44	0.22	0.00	0.00	4.44	0.46	0.01	4.43	Pm	33.30	6.52
	Outside	20314	-1.82	-1.82	3.22	-1.92	0.00	0.00	3.22	0.10	-3.75	6.97	Pm+Pb	50.00	6.18
8	Inside	20147	3.10	0.04	5.23	0.60	0.00	0.01	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	20149	0.60	0.04	4.48	0.40	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	20151	-1.32	0.06	3.91	0.25	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
9	Inside	20065	-3.47	-0.05	3.23	0.03	0.00	0.00	3.23	-0.05	-3.47	6.71	Pm+Pb	50.00	6.46
	Middle	20072	0.76	-0.04	4.50	0.03	0.00	0.00	4.50	0.76	-0.04	4.54	Pm	33.30	6.33
	Outside	20079	4.99	-0.03	5.77	0.03	0.00	0.00	5.77	4.99	-0.03	5.80	Pm+Pb	50.00	7.62

TABLE 2.10.6-80 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= -20°F)
SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3399	-3.47	-0.05	3.32	-0.03	0.00	0.00	3.32	-0.05	-3.47	6.79	Pm+Pb	50.00	6.36
	Middle	3406	0.76	-0.04	4.59	-0.03	0.00	0.00	4.59	0.76	-0.04	4.63	Pm	33.30	6.19
	Outside	3413	4.99	-0.03	5.86	-0.03	0.00	0.00	5.86	4.99	-0.03	5.89	Pm+Pb	50.00	7.48
2	Inside	3481	3.10	0.04	5.32	-0.60	0.00	-0.01	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	3483	0.60	0.04	4.57	-0.40	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	3485	-1.32	0.06	4.00	-0.25	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
3	Inside	3650	3.15	3.15	6.26	-3.25	0.00	0.00	6.41	6.26	-0.10	6.50	Pm+Pb	50.00	6.69
	Middle	3649	0.23	0.23	4.53	-0.22	0.00	0.00	4.53	0.46	0.01	4.52	Pm	33.30	6.37
	Outside	3648	-1.82	-1.82	3.31	1.92	0.00	0.00	3.31	0.10	-3.74	7.05	Pm+Pb	50.00	6.09
4	Inside	12045	0.04	3.10	5.32	-0.60	-0.01	0.00	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	12047	0.04	0.60	4.57	-0.40	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	12049	0.06	-1.32	4.00	-0.25	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
5	Inside	11963	-0.05	-3.47	3.32	0.00	0.00	0.00	3.32	-0.05	-3.47	6.79	Pm+Pb	50.00	6.36
	Middle	11970	-0.04	0.76	4.59	0.00	0.00	0.00	4.59	0.76	-0.04	4.63	Pm	33.30	6.19
	Outside	11977	-0.03	4.99	5.86	0.00	0.00	0.00	5.86	4.99	-0.03	5.89	Pm+Pb	50.00	7.48
6	Inside	29173	0.04	3.10	5.32	0.60	0.01	0.00	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	29175	0.04	0.60	4.57	0.40	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	29177	0.06	-1.32	4.00	0.25	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
7	Inside	20778	3.15	3.15	6.26	3.25	0.00	0.00	6.41	6.26	-0.10	6.50	Pm+Pb	50.00	6.69
	Middle	20777	0.23	0.23	4.53	0.22	0.00	0.00	4.53	0.46	0.01	4.52	Pm	33.30	6.37
	Outside	20776	-1.82	-1.82	3.31	-1.92	0.00	0.00	3.31	0.10	-3.74	7.05	Pm+Pb	50.00	6.09
8	Inside	20609	3.10	0.04	5.32	0.60	0.00	-0.01	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	20611	0.60	0.04	4.57	0.40	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	20613	-1.32	0.06	4.00	0.25	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
9	Inside	20527	-3.47	-0.05	3.32	0.03	0.00	0.00	3.32	-0.05	-3.47	6.79	Pm+Pb	50.00	6.36
	Middle	20534	0.76	-0.04	4.59	0.03	0.00	0.00	4.59	0.76	-0.04	4.63	Pm	33.30	6.19
	Outside	20541	4.99	-0.03	5.86	0.03	0.00	0.00	5.86	4.99	-0.03	5.89	Pm+Pb	50.00	7.48

TABLE 2.10.6-81 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP - 1 FT END DROP (T= -20°F)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3861	-3.48	-0.05	3.51	-0.03	0.00	0.00	3.51	-0.05	-3.49	6.99	Pm+Pb	50.00	6.15
	Middle	3868	0.75	-0.04	4.78	-0.03	0.00	0.00	4.78	0.75	-0.04	4.82	Pm	33.30	5.91
	Outside	3875	4.98	-0.03	6.05	-0.03	0.00	0.00	6.05	4.98	-0.03	6.08	Pm+Pb	50.00	7.22
2	Inside	3943	3.09	0.04	5.50	-0.60	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	3945	0.59	0.04	4.75	-0.40	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	3947	-1.32	0.06	4.19	-0.25	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
3	Inside	4112	3.14	3.14	6.41	-3.27	0.00	0.00	6.41	6.41	-0.13	6.54	Pm+Pb	50.00	6.65
	Middle	4111	0.23	0.23	4.72	-0.23	0.00	0.00	4.72	0.46	0.00	4.72	Pm	33.30	6.05
	Outside	4110	-1.83	-1.83	3.52	1.92	0.00	0.00	3.52	0.10	-3.75	7.27	Pm+Pb	50.00	5.88
4	Inside	12507	0.04	3.09	5.50	-0.60	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	12509	0.04	0.59	4.75	-0.40	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	12511	0.06	-1.32	4.19	-0.25	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
5	Inside	12425	-0.05	-3.48	3.51	0.00	0.00	0.00	3.51	-0.05	-3.48	6.99	Pm+Pb	50.00	6.15
	Middle	12432	-0.04	0.75	4.78	0.00	0.00	0.00	4.78	0.75	-0.04	4.82	Pm	33.30	5.91
	Outside	12439	-0.03	4.98	6.05	0.00	0.00	0.00	6.05	4.98	-0.03	6.08	Pm+Pb	50.00	7.22
6	Inside	29635	0.04	3.09	5.50	0.60	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	29637	0.04	0.59	4.75	0.40	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	29639	0.06	-1.32	4.19	0.25	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
7	Inside	21240	3.14	3.14	6.41	3.27	0.00	0.00	6.41	6.41	-0.13	6.54	Pm+Pb	50.00	6.65
	Middle	21239	0.23	0.23	4.72	0.23	0.00	0.00	4.72	0.46	0.00	4.72	Pm	33.30	6.05
	Outside	21238	-1.83	-1.83	3.52	-1.92	0.00	0.00	3.52	0.10	-3.75	7.27	Pm+Pb	50.00	5.88
8	Inside	21071	3.09	0.04	5.50	0.60	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	21073	0.59	0.04	4.75	0.40	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	21075	-1.32	0.06	4.19	0.25	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
9	Inside	20989	-3.48	-0.05	3.51	0.03	0.00	0.00	3.51	-0.05	-3.49	6.99	Pm+Pb	50.00	6.15
	Middle	20996	0.75	-0.04	4.78	0.03	0.00	0.00	4.78	0.75	-0.04	4.82	Pm	33.30	5.91
	Outside	21003	4.98	-0.03	6.05	0.03	0.00	0.00	6.05	4.98	-0.03	6.08	Pm+Pb	50.00	7.22

TABLE 2.10.6-82 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=200)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	10030	0.36	-0.22	1.11	-0.16	0.45	0.01	1.25	0.39	-0.39	1.65	Pm+Pb	49.80	29.27
	Middle	10029	-0.51	-0.09	-0.13	-0.04	0.55	-0.08	0.45	-0.51	-0.67	1.12	Pm	33.20	28.68
	Outside	10028	-1.13	0.03	-1.26	0.04	0.77	-0.58	0.41	-0.81	-1.98	2.39	Pm+Pb	49.80	19.84
4	Inside	9981	0.48	0.43	3.02	-0.54	0.45	0.42	3.14	0.99	-0.20	3.34	Pm+Pb	49.80	13.91
	Middle	9983	-0.31	-0.15	0.77	0.11	0.30	-0.05	0.86	-0.15	-0.40	1.26	Pm	33.20	25.26
	Outside	9985	-0.97	-0.61	-1.43	0.71	0.36	-0.41	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.80	24.33
5	Inside	1383	0.77	0.77	5.15	-0.31	0.78	0.78	5.39	1.08	0.22	5.17	Pm+Pb	49.80	8.62
	Middle	1390	0.50	0.50	1.76	-0.34	0.37	0.37	1.91	0.85	0.01	1.91	Pm	33.20	16.42
	Outside	1397	0.38	0.38	-1.52	-0.38	0.16	0.16	0.77	0.03	-1.56	2.32	Pm+Pb	49.80	20.44
6	Inside	1417	0.43	0.48	3.02	-0.54	0.42	0.45	3.14	0.99	-0.20	3.34	Pm+Pb	49.80	13.91
	Middle	1419	-0.15	-0.31	0.77	0.11	-0.05	0.30	0.86	-0.15	-0.40	1.26	Pm	33.20	25.26
	Outside	1421	-0.61	-0.97	-1.43	0.71	-0.41	0.36	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.80	24.33
7	Inside	1466	-0.22	0.36	1.11	0.00	0.00	0.45	1.25	0.36	-0.36	1.61	Pm+Pb	49.80	29.93
	Middle	1465	-0.09	-0.51	-0.13	0.00	0.00	0.55	0.44	-0.51	-0.66	1.11	Pm	33.20	29.04
	Outside	1464	0.03	-1.13	-1.26	0.00	0.00	0.77	0.38	-1.13	-1.62	2.00	Pm+Pb	49.80	23.87
8	Inside	18545	0.43	0.48	3.02	0.54	-0.42	0.45	3.14	0.99	-0.20	3.34	Pm+Pb	49.80	13.91
	Middle	18547	-0.15	-0.31	0.77	-0.11	0.05	0.30	0.86	-0.15	-0.40	1.26	Pm	33.20	25.26
	Outside	18549	-0.61	-0.97	-1.43	-0.71	0.41	0.36	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.80	24.33
9	Inside	18511	0.77	0.77	5.15	0.31	-0.78	0.78	5.39	1.08	0.22	5.17	Pm+Pb	49.80	8.62
	Middle	18518	0.50	0.50	1.76	0.34	-0.37	0.37	1.91	0.85	0.01	1.91	Pm	33.20	16.42
	Outside	18525	0.38	0.38	-1.52	0.38	-0.16	0.16	0.77	0.03	-1.56	2.32	Pm+Pb	49.80	20.44
10	Inside	27109	0.48	0.43	3.02	0.54	-0.45	0.42	3.14	0.99	-0.20	3.34	Pm+Pb	49.80	13.91
	Middle	27111	-0.31	-0.15	0.77	-0.11	-0.30	-0.05	0.86	-0.15	-0.40	1.26	Pm	33.20	25.26
	Outside	27113	-0.97	-0.61	-1.43	-0.71	-0.36	-0.41	-0.06	-0.93	-2.03	1.97	Pm+Pb	49.80	24.33
11	Inside	27158	0.36	-0.22	1.11	0.16	-0.45	0.01	1.25	0.39	-0.39	1.65	Pm+Pb	49.80	29.27
	Middle	27157	-0.51	-0.09	-0.13	0.04	-0.55	-0.08	0.45	-0.51	-0.67	1.12	Pm	33.20	28.68
	Outside	27156	-1.13	0.03	-1.26	-0.04	-0.77	-0.58	0.41	-0.81	-1.98	2.39	Pm+Pb	49.80	19.84

TABLE 2.10.6-83 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=200)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	11617	4.95	-0.15	0.21	-0.50	0.01	0.03	5.00	0.21	-0.20	5.19	Pm+Pb	49.80	8.59
	Middle	11616	0.39	0.02	-1.21	-0.02	0.05	-0.07	0.39	0.02	-1.22	1.61	Pm	33.20	19.65
	Outside	11615	-3.06	-0.01	-2.77	0.32	0.06	-0.14	0.02	-2.72	-3.15	3.17	Pm+Pb	49.80	14.69
4	Inside	11529	1.57	0.69	-0.55	-1.12	-0.22	0.20	2.36	-0.07	-0.59	2.95	Pm+Pb	49.80	15.91
	Middle	11531	0.35	-0.24	-1.16	-0.22	0.08	-0.14	0.44	-0.31	-1.18	1.62	Pm	33.20	19.54
	Outside	11533	-0.44	-0.67	-1.29	0.48	0.43	-0.34	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.80	28.88
5	Inside	2748	-1.85	-1.85	-2.62	1.56	0.02	0.02	-0.30	-2.62	-3.41	3.12	Pm+Pb	49.80	14.98
	Middle	2755	0.08	0.08	-1.04	-0.27	0.03	0.03	0.35	-0.20	-1.04	1.39	Pm	33.20	22.82
	Outside	2762	2.14	2.14	0.81	-2.05	0.02	0.02	4.19	0.81	0.09	4.10	Pm+Pb	49.80	11.14
6	Inside	2965	0.69	1.57	-0.55	-1.12	0.20	-0.22	2.36	-0.07	-0.59	2.95	Pm+Pb	49.80	15.91
	Middle	2967	-0.24	0.35	-1.16	-0.22	-0.14	0.08	0.44	-0.31	-1.18	1.62	Pm	33.20	19.54
	Outside	2969	-0.67	-0.44	-1.29	0.48	-0.34	0.43	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.80	28.88
7	Inside	3053	-0.15	4.95	0.21	0.00	0.00	0.01	4.95	0.21	-0.15	5.09	Pm+Pb	49.80	8.78
	Middle	3052	0.02	0.39	-1.21	0.00	0.00	0.05	0.39	0.02	-1.21	1.60	Pm	33.20	19.73
	Outside	3051	-0.01	-3.06	-2.77	0.00	0.00	0.06	-0.01	-2.77	-3.06	3.05	Pm+Pb	49.80	15.32
8	Inside	20093	0.69	1.57	-0.55	1.12	-0.20	-0.22	2.36	-0.07	-0.59	2.95	Pm+Pb	49.80	15.91
	Middle	20095	-0.24	0.35	-1.16	0.22	0.14	0.08	0.44	-0.31	-1.18	1.62	Pm	33.20	19.54
	Outside	20097	-0.67	-0.44	-1.29	-0.48	0.34	0.43	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.80	28.88
9	Inside	19876	-1.85	-1.85	-2.62	-1.56	-0.02	0.02	-0.30	-2.62	-3.41	3.12	Pm+Pb	49.80	14.98
	Middle	19883	0.08	0.08	-1.04	0.27	-0.03	0.03	0.35	-0.20	-1.04	1.39	Pm	33.20	22.82
	Outside	19890	2.14	2.14	0.81	2.05	-0.02	0.02	4.19	0.81	0.09	4.10	Pm+Pb	49.80	11.14
10	Inside	28657	1.57	0.69	-0.55	1.12	0.22	0.20	2.36	-0.07	-0.59	2.95	Pm+Pb	49.80	15.91
	Middle	28659	0.35	-0.24	-1.16	0.22	-0.08	-0.14	0.44	-0.31	-1.18	1.62	Pm	33.20	19.54
	Outside	28661	-0.44	-0.67	-1.29	-0.48	-0.43	-0.34	-0.06	-0.61	-1.73	1.67	Pm+Pb	49.80	28.88
11	Inside	28745	4.95	-0.15	0.21	0.50	-0.01	0.03	5.00	0.21	-0.20	5.19	Pm+Pb	49.80	8.59
	Middle	28744	0.39	0.02	-1.21	0.02	-0.05	-0.07	0.39	0.02	-1.22	1.61	Pm	33.20	19.65
	Outside	28743	-3.06	-0.01	-2.77	-0.32	-0.06	-0.14	0.02	-2.72	-3.15	3.17	Pm+Pb	49.80	14.69

TABLE 2.10.6-84 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=200)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	11752	6.41	-0.10	0.76	-0.69	0.00	0.00	6.48	0.76	-0.17	6.66	Pm+Pb	49.80	6.48
	Middle	11751	0.46	0.01	-0.96	-0.06	0.00	0.00	0.46	0.00	-0.96	1.43	Pm	33.20	22.28
	Outside	11750	-3.75	0.10	-2.18	0.39	0.00	0.00	0.14	-2.18	-3.79	3.93	Pm+Pb	49.80	11.68
4	Inside	11583	2.17	0.97	-0.17	-1.53	0.01	-0.01	3.21	-0.07	-0.17	3.39	Pm+Pb	49.80	13.71
	Middle	11585	0.72	-0.08	-0.92	-0.28	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.20	18.21
	Outside	11587	-0.38	-0.87	-1.49	0.69	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.80	30.17
5	Inside	2937	-1.76	-1.76	-2.17	1.71	0.00	0.00	-0.05	-2.17	-3.47	3.42	Pm+Pb	49.80	13.55
	Middle	2944	0.36	0.36	-0.90	-0.40	0.00	0.00	0.76	-0.04	-0.90	1.66	Pm	33.20	19.02
	Outside	2951	2.48	2.48	0.37	-2.51	0.00	0.00	4.99	0.37	-0.03	5.02	Pm+Pb	49.80	8.92
6	Inside	3019	0.97	2.17	-0.17	-1.53	-0.01	0.01	3.21	-0.07	-0.17	3.39	Pm+Pb	49.80	13.71
	Middle	3021	-0.08	0.72	-0.92	-0.28	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.20	18.21
	Outside	3023	-0.87	-0.38	-1.49	0.69	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.80	30.17
7	Inside	3188	-0.10	6.41	0.76	0.00	0.00	0.00	6.41	0.76	-0.10	6.51	Pm+Pb	49.80	6.65
	Middle	3187	0.01	0.46	-0.96	0.00	0.00	0.00	0.46	0.01	-0.96	1.42	Pm	33.20	22.42
	Outside	3186	0.10	-3.75	-2.18	0.00	0.00	0.00	0.10	-2.18	-3.75	3.85	Pm+Pb	49.80	11.94
8	Inside	20147	0.97	2.17	-0.17	1.53	0.01	0.01	3.21	-0.07	-0.17	3.39	Pm+Pb	49.80	13.71
	Middle	20149	-0.08	0.72	-0.92	0.28	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.20	18.21
	Outside	20151	-0.87	-0.38	-1.49	-0.69	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.80	30.17
9	Inside	20065	-1.76	-1.76	-2.17	-1.71	0.00	0.00	-0.05	-2.17	-3.47	3.42	Pm+Pb	49.80	13.55
	Middle	20072	0.36	0.36	-0.90	0.40	0.00	0.00	0.76	-0.04	-0.90	1.66	Pm	33.20	19.02
	Outside	20079	2.48	2.48	0.37	2.51	0.00	0.00	4.99	0.37	-0.03	5.02	Pm+Pb	49.80	8.92
10	Inside	28711	2.17	0.97	-0.17	1.53	-0.01	-0.01	3.21	-0.07	-0.17	3.39	Pm+Pb	49.80	13.71
	Middle	28713	0.72	-0.08	-0.92	0.28	0.00	0.00	0.81	-0.17	-0.92	1.73	Pm	33.20	18.21
	Outside	28715	-0.38	-0.87	-1.49	-0.69	0.00	0.00	0.11	-1.36	-1.49	1.60	Pm+Pb	49.80	30.17
11	Inside	28880	6.41	-0.10	0.76	0.69	0.00	0.00	6.48	0.76	-0.17	6.66	Pm+Pb	49.80	6.48
	Middle	28879	0.46	0.01	-0.96	0.06	0.00	0.00	0.46	0.00	-0.96	1.43	Pm	33.20	22.28
	Outside	28878	-3.75	0.10	-2.18	-0.39	0.00	0.00	0.14	-2.18	-3.79	3.93	Pm+Pb	49.80	11.68

TABLE 2.10.6-85 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=200) SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	12214	6.41	-0.10	0.86	-0.69	0.00	0.00	6.48	0.86	-0.17	6.65	Pm+Pb	49.80	6.49
	Middle	12213	0.46	0.01	-0.87	-0.06	0.00	0.00	0.46	0.00	-0.87	1.34	Pm	33.20	23.87
	Outside	12212	-3.74	0.10	-2.09	0.39	0.00	0.00	0.14	-2.09	-3.78	3.92	Pm+Pb	49.80	11.69
4	Inside	12045	2.17	0.97	-0.08	-1.53	-0.01	0.01	3.21	-0.07	-0.08	3.29	Pm+Pb	49.80	14.12
	Middle	12047	0.72	-0.08	-0.83	-0.28	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.20	19.28
	Outside	12049	-0.38	-0.87	-1.40	0.69	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.80	32.08
5	Inside	3399	-1.76	-1.76	-2.08	1.71	0.00	0.00	-0.05	-2.08	-3.47	3.42	Pm+Pb	49.80	13.56
	Middle	3406	0.36	0.36	-0.81	-0.40	0.00	0.00	0.76	-0.04	-0.81	1.57	Pm	33.20	20.21
	Outside	3413	2.48	2.48	0.46	-2.51	0.00	0.00	4.99	0.46	-0.03	5.02	Pm+Pb	49.80	8.93
6	Inside	3481	0.97	2.17	-0.08	-1.53	0.01	-0.01	3.21	-0.07	-0.08	3.29	Pm+Pb	49.80	14.12
	Middle	3483	-0.08	0.72	-0.83	-0.28	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.20	19.28
	Outside	3485	-0.87	-0.38	-1.40	0.69	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.80	32.08
7	Inside	3650	-0.10	6.41	0.86	0.00	0.00	0.00	6.41	0.86	-0.10	6.50	Pm+Pb	49.80	6.66
	Middle	3649	0.01	0.46	-0.87	0.00	0.00	0.00	0.46	0.01	-0.87	1.33	Pm	33.20	24.02
	Outside	3648	0.10	-3.74	-2.09	0.00	0.00	0.00	0.10	-2.09	-3.74	3.85	Pm+Pb	49.80	11.95
8	Inside	20609	0.97	2.17	-0.08	1.53	-0.01	-0.01	3.21	-0.07	-0.08	3.29	Pm+Pb	49.80	14.12
	Middle	20611	-0.08	0.72	-0.83	0.28	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.20	19.28
	Outside	20613	-0.87	-0.38	-1.40	-0.69	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.80	32.08
9	Inside	20527	-1.76	-1.76	-2.08	-1.71	0.00	0.00	-0.05	-2.08	-3.47	3.42	Pm+Pb	49.80	13.56
	Middle	20534	0.36	0.36	-0.81	0.40	0.00	0.00	0.76	-0.04	-0.81	1.57	Pm	33.20	20.21
	Outside	20541	2.48	2.48	0.46	2.51	0.00	0.00	4.99	0.46	-0.03	5.02	Pm+Pb	49.80	8.93
10	Inside	29173	2.17	0.97	-0.08	1.53	0.01	0.01	3.21	-0.07	-0.08	3.29	Pm+Pb	49.80	14.12
	Middle	29175	0.72	-0.08	-0.83	0.28	0.00	0.00	0.81	-0.17	-0.83	1.64	Pm	33.20	19.28
	Outside	29177	-0.38	-0.87	-1.40	-0.69	0.00	0.00	0.11	-1.36	-1.40	1.51	Pm+Pb	49.80	32.08
11	Inside	29342	6.41	-0.10	0.86	0.69	0.00	0.00	6.48	0.86	-0.17	6.65	Pm+Pb	49.80	6.49
	Middle	29341	0.46	0.01	-0.87	0.06	0.00	0.00	0.46	0.00	-0.87	1.34	Pm	33.20	23.87
	Outside	29340	-3.74	0.10	-2.09	-0.39	0.00	0.00	0.14	-2.09	-3.78	3.92	Pm+Pb	49.80	11.69

TABLE 2.10.6-86 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=200)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	12676	6.41	-0.13	1.01	-0.70	0.01	0.00	6.49	1.01	-0.20	6.69	Pm+Pb	49.80	6.45
	Middle	12675	0.46	0.00	-0.68	-0.07	0.00	0.00	0.47	-0.01	-0.68	1.15	Pm	33.20	27.91
	Outside	12674	-3.75	0.10	-1.88	0.38	0.00	0.00	0.13	-1.88	-3.79	3.92	Pm+Pb	49.80	11.70
4	Inside	12507	2.17	0.97	0.10	-1.52	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.80	14.20
	Middle	12509	0.72	-0.08	-0.65	-0.28	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.20	21.90
	Outside	12511	-0.38	-0.87	-1.21	0.69	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.80	32.87
5	Inside	3861	-1.77	-1.77	-1.89	1.72	0.00	0.00	-0.05	-1.89	-3.48	3.43	Pm+Pb	49.80	13.50
	Middle	3868	0.35	0.35	-0.62	-0.39	0.00	0.00	0.75	-0.04	-0.62	1.37	Pm	33.20	23.25
	Outside	3875	2.48	2.48	0.65	-2.51	0.00	0.00	4.98	0.65	-0.03	5.01	Pm+Pb	49.80	8.93
6	Inside	3943	0.97	2.17	0.10	-1.52	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.80	14.20
	Middle	3945	-0.08	0.72	-0.65	-0.28	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.20	21.90
	Outside	3947	-0.87	-0.38	-1.21	0.69	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.80	32.87
7	Inside	4112	-0.13	6.41	1.01	0.00	0.00	0.01	6.41	1.01	-0.13	6.54	Pm+Pb	49.80	6.62
	Middle	4111	0.00	0.46	-0.68	0.00	0.00	0.00	0.46	0.00	-0.68	1.14	Pm	33.20	28.16
	Outside	4110	0.10	-3.75	-1.88	0.00	0.00	0.00	0.10	-1.88	-3.75	3.85	Pm+Pb	49.80	11.95
8	Inside	21071	0.97	2.17	0.10	1.52	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.80	14.20
	Middle	21073	-0.08	0.72	-0.65	0.28	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.20	21.90
	Outside	21075	-0.87	-0.38	-1.21	-0.69	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.80	32.87
9	Inside	20989	-1.77	-1.77	-1.89	-1.72	0.00	0.00	-0.05	-1.89	-3.48	3.43	Pm+Pb	49.80	13.50
	Middle	20996	0.35	0.35	-0.62	0.39	0.00	0.00	0.75	-0.04	-0.62	1.37	Pm	33.20	23.25
	Outside	21003	2.48	2.48	0.65	2.51	0.00	0.00	4.98	0.65	-0.03	5.01	Pm+Pb	49.80	8.93
10	Inside	29635	2.17	0.97	0.10	1.52	0.00	0.00	3.21	0.10	-0.07	3.28	Pm+Pb	49.80	14.20
	Middle	29637	0.72	-0.08	-0.65	0.28	0.00	0.00	0.80	-0.17	-0.65	1.45	Pm	33.20	21.90
	Outside	29639	-0.38	-0.87	-1.21	-0.69	0.00	0.00	0.11	-1.21	-1.36	1.47	Pm+Pb	49.80	32.87
11	Inside	29804	6.41	-0.13	1.01	0.70	-0.01	0.00	6.49	1.01	-0.20	6.69	Pm+Pb	49.80	6.45
	Middle	29803	0.46	0.00	-0.68	0.07	0.00	0.00	0.47	-0.01	-0.68	1.15	Pm	33.20	27.91
	Outside	29802	-3.75	0.10	-1.88	-0.38	0.00	0.00	0.13	-1.88	-3.79	3.92	Pm+Pb	49.80	11.70

TABLE 2.10.6-87 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=-20)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	10030	0.36	-0.22	6.51	-0.16	0.45	0.01	6.54	0.40	-0.29	6.83	Pm+Pb	50.00	6.32
	Middle	10029	-0.51	-0.09	5.27	-0.04	0.55	-0.08	5.33	-0.14	-0.51	5.84	Pm	33.30	4.70
	Outside	10028	-1.13	0.03	4.14	0.04	0.77	-0.58	4.33	-0.09	-1.21	5.54	Pm+Pb	50.00	8.02
4	Inside	9981	0.48	0.43	8.42	-0.54	0.45	0.42	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	9983	-0.31	-0.15	6.17	0.11	0.30	-0.05	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	9985	-0.97	-0.61	3.97	0.71	0.36	-0.41	4.02	-0.07	-1.58	5.60	Pm+Pb	50.00	7.93
5	Inside	1383	0.77	0.77	10.55	-0.31	0.78	0.78	10.67	1.08	0.35	10.32	Pm+Pb	50.00	3.85
	Middle	1390	0.50	0.50	7.16	-0.34	0.37	0.37	7.20	0.85	0.12	7.08	Pm	33.30	3.71
	Outside	1397	0.38	0.38	3.88	-0.38	0.16	0.16	3.89	0.77	-0.02	3.91	Pm+Pb	50.00	11.79
6	Inside	1417	0.43	0.48	8.42	-0.54	0.42	0.45	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	1419	-0.15	-0.31	6.17	0.11	-0.05	0.30	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	1421	-0.61	-0.97	3.97	0.71	-0.41	0.36	4.02	-0.06	-1.58	5.60	Pm+Pb	50.00	7.93
7	Inside	1466	-0.22	0.36	6.51	0.00	0.00	0.45	6.54	0.36	-0.25	6.79	Pm+Pb	50.00	6.36
	Middle	1465	-0.09	-0.51	5.27	0.00	0.00	0.55	5.33	-0.14	-0.51	5.83	Pm	33.30	4.71
	Outside	1464	0.03	-1.13	4.14	0.00	0.00	0.77	4.27	-0.11	-1.13	5.41	Pm+Pb	50.00	8.25
8	Inside	18545	0.43	0.48	8.42	0.54	-0.42	0.45	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	18547	-0.15	-0.31	6.17	-0.11	0.05	0.30	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	18549	-0.61	-0.97	3.97	-0.71	0.41	0.36	4.02	-0.06	-1.58	5.60	Pm+Pb	50.00	7.93
9	Inside	18511	0.77	0.77	10.55	0.31	-0.78	0.78	10.67	1.08	0.35	10.32	Pm+Pb	50.00	3.85
	Middle	18518	0.50	0.50	7.16	0.34	-0.37	0.37	7.20	0.85	0.12	7.08	Pm	33.30	3.71
	Outside	18525	0.38	0.38	3.88	0.38	-0.16	0.16	3.89	0.77	-0.02	3.91	Pm+Pb	50.00	11.79
10	Inside	27109	0.48	0.43	8.42	0.54	-0.45	0.42	8.47	0.99	-0.12	8.59	Pm+Pb	50.00	4.82
	Middle	27111	-0.31	-0.15	6.17	-0.11	-0.30	-0.05	6.19	-0.11	-0.37	6.56	Pm	33.30	4.08
	Outside	27113	-0.97	-0.61	3.97	-0.71	-0.36	-0.41	4.02	-0.07	-1.58	5.60	Pm+Pb	50.00	7.93
11	Inside	27158	0.36	-0.22	6.51	0.16	-0.45	0.01	6.54	0.40	-0.29	6.83	Pm+Pb	50.00	6.32
	Middle	27157	-0.51	-0.09	5.27	0.04	-0.55	-0.08	5.33	-0.14	-0.51	5.84	Pm	33.30	4.70
	Outside	27156	-1.13	0.03	4.14	-0.04	-0.77	-0.58	4.33	-0.09	-1.21	5.54	Pm+Pb	50.00	8.02

TABLE 2.10.6-88 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=-20)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	11617	4.95	-0.15	5.61	-0.50	0.01	0.03	5.62	5.00	-0.20	5.81	Pm+Pb	50.00	7.60
	Middle	11616	0.39	0.02	4.19	-0.02	0.05	-0.07	4.19	0.39	0.01	4.18	Pm	33.30	6.97
	Outside	11615	-3.06	-0.01	2.63	0.32	0.06	-0.14	2.63	0.02	-3.10	5.73	Pm+Pb	50.00	7.72
4	Inside	11529	1.57	0.69	4.85	-1.12	-0.22	0.20	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	11531	0.35	-0.24	4.24	-0.22	0.08	-0.14	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	11533	-0.44	-0.67	4.11	0.48	0.43	-0.34	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
5	Inside	2748	-1.85	-1.85	2.78	1.56	0.02	0.02	2.78	-0.30	-3.41	6.19	Pm+Pb	50.00	7.08
	Middle	2755	0.08	0.08	4.36	-0.27	0.03	0.03	4.36	0.35	-0.20	4.56	Pm	33.30	6.31
	Outside	2762	2.14	2.14	6.21	-2.05	0.02	0.02	6.21	4.19	0.09	6.12	Pm+Pb	50.00	7.17
6	Inside	2965	0.69	1.57	4.85	-1.12	0.20	-0.22	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	2967	-0.24	0.35	4.24	-0.22	-0.14	0.08	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	2969	-0.67	-0.44	4.11	0.48	-0.34	0.43	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
7	Inside	3053	-0.15	4.95	5.61	0.00	0.00	0.01	5.61	4.95	-0.15	5.76	Pm+Pb	50.00	7.68
	Middle	3052	0.02	0.39	4.19	0.00	0.00	0.05	4.19	0.39	0.01	4.17	Pm	33.30	6.98
	Outside	3051	-0.01	-3.06	2.63	0.00	0.00	0.06	2.63	-0.01	-3.06	5.69	Pm+Pb	50.00	7.79
8	Inside	20093	0.69	1.57	4.85	1.12	-0.20	-0.22	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	20095	-0.24	0.35	4.24	0.22	0.14	0.08	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	20097	-0.67	-0.44	4.11	-0.48	0.34	0.43	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
9	Inside	19876	-1.85	-1.85	2.78	-1.56	-0.02	0.02	2.78	-0.30	-3.41	6.19	Pm+Pb	50.00	7.08
	Middle	19883	0.08	0.08	4.36	0.27	-0.03	0.03	4.36	0.35	-0.20	4.56	Pm	33.30	6.31
	Outside	19890	2.14	2.14	6.21	2.05	-0.02	0.02	6.21	4.19	0.09	6.12	Pm+Pb	50.00	7.17
10	Inside	28657	1.57	0.69	4.85	1.12	0.22	0.20	4.89	2.30	-0.08	4.96	Pm+Pb	50.00	9.07
	Middle	28659	0.35	-0.24	4.24	0.22	-0.08	-0.14	4.24	0.42	-0.31	4.55	Pm	33.30	6.32
	Outside	28661	-0.44	-0.67	4.11	-0.48	-0.43	-0.34	4.17	-0.06	-1.11	5.27	Pm+Pb	50.00	8.48
11	Inside	28745	4.95	-0.15	5.61	0.50	-0.01	0.03	5.62	5.00	-0.20	5.81	Pm+Pb	50.00	7.60
	Middle	28744	0.39	0.02	4.19	0.02	-0.05	-0.07	4.19	0.39	0.01	4.18	Pm	33.30	6.97
	Outside	28743	-3.06	-0.01	2.63	-0.32	-0.06	-0.14	2.63	0.02	-3.10	5.73	Pm+Pb	50.00	7.72

TABLE 2.10.6-89 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=-20)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	11752	6.41	-0.10	6.16	-0.69	0.00	0.00	6.48	6.16	-0.17	6.66	Pm+Pb	50.00	6.51
	Middle	11751	0.46	0.01	4.44	-0.06	0.00	0.00	4.44	0.46	0.00	4.44	Pm	33.30	6.51
	Outside	11750	-3.75	0.10	3.22	0.39	0.00	0.00	3.22	0.14	-3.79	7.00	Pm+Pb	50.00	6.14
4	Inside	11583	2.17	0.97	5.23	-1.53	0.01	-0.01	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	11585	0.72	-0.08	4.48	-0.28	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	11587	-0.38	-0.87	3.91	0.69	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
5	Inside	2937	-1.76	-1.76	3.23	1.71	0.00	0.00	3.23	-0.05	-3.47	6.70	Pm+Pb	50.00	6.46
	Middle	2944	0.36	0.36	4.50	-0.40	0.00	0.00	4.50	0.76	-0.04	4.54	Pm	33.30	6.33
	Outside	2951	2.48	2.48	5.77	-2.51	0.00	0.00	5.77	4.99	-0.03	5.80	Pm+Pb	50.00	7.62
6	Inside	3019	0.97	2.17	5.23	-1.53	-0.01	0.01	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	3021	-0.08	0.72	4.48	-0.28	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	3023	-0.87	-0.38	3.91	0.69	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
7	Inside	3188	-0.10	6.41	6.16	0.00	0.00	0.00	6.41	6.16	-0.10	6.51	Pm+Pb	50.00	6.68
	Middle	3187	0.01	0.46	4.44	0.00	0.00	0.00	4.44	0.46	0.01	4.43	Pm	33.30	6.52
	Outside	3186	0.10	-3.75	3.22	0.00	0.00	0.00	3.22	0.10	-3.75	6.97	Pm+Pb	50.00	6.18
8	Inside	20147	0.97	2.17	5.23	1.53	0.01	0.01	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	20149	-0.08	0.72	4.48	0.28	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	20151	-0.87	-0.38	3.91	-0.69	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
9	Inside	20065	-1.76	-1.76	3.23	-1.71	0.00	0.00	3.23	-0.05	-3.47	6.70	Pm+Pb	50.00	6.46
	Middle	20072	0.36	0.36	4.50	0.40	0.00	0.00	4.50	0.76	-0.04	4.54	Pm	33.30	6.33
	Outside	20079	2.48	2.48	5.77	2.51	0.00	0.00	5.77	4.99	-0.03	5.80	Pm+Pb	50.00	7.62
10	Inside	28711	2.17	0.97	5.23	1.53	-0.01	-0.01	5.23	3.21	-0.07	5.30	Pm+Pb	50.00	8.44
	Middle	28713	0.72	-0.08	4.48	0.28	0.00	0.00	4.48	0.81	-0.17	4.64	Pm	33.30	6.17
	Outside	28715	-0.38	-0.87	3.91	-0.69	0.00	0.00	3.91	0.11	-1.36	5.27	Pm+Pb	50.00	8.48
11	Inside	28880	6.41	-0.10	6.16	0.69	0.00	0.00	6.48	6.16	-0.17	6.66	Pm+Pb	50.00	6.51
	Middle	28879	0.46	0.01	4.44	0.06	0.00	0.00	4.44	0.46	0.00	4.44	Pm	33.30	6.51
	Outside	28878	-3.75	0.10	3.22	-0.39	0.00	0.00	3.22	0.14	-3.79	7.00	Pm+Pb	50.00	6.14

TABLE 2.10.6-90 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=-20)
SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	12214	6.41	-0.10	6.26	-0.69	0.00	0.00	6.48	6.26	-0.17	6.65	Pm+Pb	50.00	6.52
	Middle	12213	0.46	0.01	4.53	-0.06	0.00	0.00	4.53	0.46	0.00	4.53	Pm	33.30	6.36
	Outside	12212	-3.74	0.10	3.31	0.39	0.00	0.00	3.31	0.14	-3.78	7.09	Pm+Pb	50.00	6.05
4	Inside	12045	2.17	0.97	5.32	-1.53	-0.01	0.01	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	12047	0.72	-0.08	4.57	-0.28	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	12049	-0.38	-0.87	4.00	0.69	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
5	Inside	3399	-1.76	-1.76	3.32	1.71	0.00	0.00	3.32	-0.05	-3.47	6.79	Pm+Pb	50.00	6.36
	Middle	3406	0.36	0.36	4.59	-0.40	0.00	0.00	4.59	0.76	-0.04	4.63	Pm	33.30	6.19
	Outside	3413	2.48	2.48	5.86	-2.51	0.00	0.00	5.86	4.99	-0.03	5.89	Pm+Pb	50.00	7.48
6	Inside	3481	0.97	2.17	5.32	-1.53	0.01	-0.01	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	3483	-0.08	0.72	4.57	-0.28	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	3485	-0.87	-0.38	4.00	0.69	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
7	Inside	3650	-0.10	6.41	6.26	0.00	0.00	0.00	6.41	6.26	-0.10	6.50	Pm+Pb	50.00	6.69
	Middle	3649	0.01	0.46	4.53	0.00	0.00	0.00	4.53	0.46	0.01	4.52	Pm	33.30	6.37
	Outside	3648	0.10	-3.74	3.31	0.00	0.00	0.00	3.31	0.10	-3.74	7.05	Pm+Pb	50.00	6.09
8	Inside	20609	0.97	2.17	5.32	1.53	-0.01	-0.01	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	20611	-0.08	0.72	4.57	0.28	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	20613	-0.87	-0.38	4.00	-0.69	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
9	Inside	20527	-1.76	-1.76	3.32	-1.71	0.00	0.00	3.32	-0.05	-3.47	6.79	Pm+Pb	50.00	6.36
	Middle	20534	0.36	0.36	4.59	0.40	0.00	0.00	4.59	0.76	-0.04	4.63	Pm	33.30	6.19
	Outside	20541	2.48	2.48	5.86	2.51	0.00	0.00	5.86	4.99	-0.03	5.89	Pm+Pb	50.00	7.48
10	Inside	29173	2.17	0.97	5.32	1.53	0.01	0.01	5.32	3.21	-0.07	5.39	Pm+Pb	50.00	8.28
	Middle	29175	0.72	-0.08	4.57	0.28	0.00	0.00	4.57	0.81	-0.17	4.74	Pm	33.30	6.03
	Outside	29177	-0.38	-0.87	4.00	-0.69	0.00	0.00	4.00	0.11	-1.36	5.36	Pm+Pb	50.00	8.32
11	Inside	29342	6.41	-0.10	6.26	0.69	0.00	0.00	6.48	6.26	-0.17	6.65	Pm+Pb	50.00	6.52
	Middle	29341	0.46	0.01	4.53	0.06	0.00	0.00	4.53	0.46	0.00	4.53	Pm	33.30	6.36
	Outside	29340	-3.74	0.10	3.31	-0.39	0.00	0.00	3.31	0.14	-3.78	7.09	Pm+Pb	50.00	6.05

TABLE 2.10.6-91 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT END DROP (T=-20) SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	12676	6.41	-0.13	6.41	-0.70	0.01	0.00	6.49	6.41	-0.20	6.69	Pm+Pb	50.00	6.48
	Middle	12675	0.46	0.00	4.72	-0.07	0.00	0.00	4.72	0.47	-0.01	4.73	Pm	33.30	6.04
	Outside	12674	-3.75	0.10	3.52	0.38	0.00	0.00	3.52	0.13	-3.79	7.31	Pm+Pb	50.00	5.84
4	Inside	12507	2.17	0.97	5.50	-1.52	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	12509	0.72	-0.08	4.75	-0.28	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	12511	-0.38	-0.87	4.19	0.69	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
5	Inside	3861	-1.77	-1.77	3.51	1.72	0.00	0.00	3.51	-0.05	-3.48	6.99	Pm+Pb	50.00	6.15
	Middle	3868	0.35	0.35	4.78	-0.39	0.00	0.00	4.78	0.75	-0.04	4.82	Pm	33.30	5.91
	Outside	3875	2.48	2.48	6.05	-2.51	0.00	0.00	6.05	4.98	-0.03	6.08	Pm+Pb	50.00	7.22
6	Inside	3943	0.97	2.17	5.50	-1.52	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	3945	-0.08	0.72	4.75	-0.28	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	3947	-0.87	-0.38	4.19	0.69	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
7	Inside	4112	-0.13	6.41	6.41	0.00	0.00	0.01	6.41	6.41	-0.13	6.54	Pm+Pb	50.00	6.65
	Middle	4111	0.00	0.46	4.72	0.00	0.00	0.00	4.72	0.46	0.00	4.72	Pm	33.30	6.05
	Outside	4110	0.10	-3.75	3.52	0.00	0.00	0.00	3.52	0.10	-3.75	7.27	Pm+Pb	50.00	5.88
8	Inside	21071	0.97	2.17	5.50	1.52	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	21073	-0.08	0.72	4.75	0.28	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	21075	-0.87	-0.38	4.19	-0.69	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
9	Inside	20989	-1.77	-1.77	3.51	-1.72	0.00	0.00	3.51	-0.05	-3.48	6.99	Pm+Pb	50.00	6.15
	Middle	20996	0.35	0.35	4.78	0.39	0.00	0.00	4.78	0.75	-0.04	4.82	Pm	33.30	5.91
	Outside	21003	2.48	2.48	6.05	2.51	0.00	0.00	6.05	4.98	-0.03	6.08	Pm+Pb	50.00	7.22
10	Inside	29635	2.17	0.97	5.50	1.52	0.00	0.00	5.50	3.21	-0.07	5.57	Pm+Pb	50.00	7.98
	Middle	29637	0.72	-0.08	4.75	0.28	0.00	0.00	4.75	0.80	-0.17	4.92	Pm	33.30	5.77
	Outside	29639	-0.38	-0.87	4.19	-0.69	0.00	0.00	4.19	0.11	-1.36	5.55	Pm+Pb	50.00	8.00
11	Inside	29804	6.41	-0.13	6.41	0.70	-0.01	0.00	6.49	6.41	-0.20	6.69	Pm+Pb	50.00	6.48
	Middle	29803	0.46	0.00	4.72	0.07	0.00	0.00	4.72	0.47	-0.01	4.73	Pm	33.30	6.04
	Outside	29802	-3.75	0.10	3.52	-0.38	0.00	0.00	3.52	0.13	-3.79	7.31	Pm+Pb	50.00	5.84

TABLE 2.10.6-92 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	1383	0.04	1.25	1.42	0.38	1.20	-0.12	2.55	0.45	-0.29	2.83	Pm+Pb	49.80	16.57
	Middle	1390	2.51	0.53	-0.39	0.12	0.80	0.19	2.54	0.97	-0.85	3.39	Pm	33.20	8.79
	Outside	1397	5.21	0.05	-1.99	0.07	0.69	0.49	5.25	0.25	-2.23	7.48	Pm+Pb	49.80	5.66
2	Inside	1417	2.33	0.02	-0.08	-0.41	0.14	-0.75	2.61	-0.05	-0.30	2.92	Pm+Pb	49.80	16.07
	Middle	1419	0.84	-0.07	-1.14	-0.19	-0.03	0.55	1.01	-0.10	-1.28	2.29	Pm	33.20	13.48
	Outside	1421	-0.50	-0.08	-2.27	-0.03	-0.19	1.73	0.58	-0.10	-3.33	3.91	Pm+Pb	49.80	11.75
3	Inside	1466	1.69	1.46	-0.44	-1.55	-0.96	0.71	3.48	0.07	-0.84	4.33	Pm+Pb	49.80	10.51
	Middle	1465	0.25	0.12	-0.95	0.06	-1.03	0.76	0.97	0.26	-1.81	2.77	Pm	33.20	10.97
	Outside	1464	-0.88	-0.86	-1.36	1.20	-1.09	0.86	0.36	-0.32	-3.14	3.50	Pm+Pb	49.80	13.23
4	Inside	9981	0.04	1.58	0.81	-0.51	-2.80	0.34	4.12	-0.05	-1.64	5.76	Pm+Pb	49.80	7.65
	Middle	9983	-0.07	0.00	0.06	-0.23	-1.95	0.23	2.03	-0.12	-1.92	3.95	Pm	33.20	7.40
	Outside	9985	-0.06	-1.40	-0.66	-0.01	-1.17	0.08	0.21	-0.07	-2.25	2.46	Pm+Pb	49.80	19.22
5	Inside	9947	0.07	-0.69	2.18	-0.24	-2.60	0.60	3.82	-0.03	-2.23	6.06	Pm+Pb	49.80	7.22
	Middle	9954	-0.07	0.48	1.35	-0.15	-2.61	0.41	3.61	-0.10	-1.74	5.36	Pm	33.20	5.20
	Outside	9961	-0.15	1.72	0.58	-0.06	-2.70	0.30	3.92	-0.13	-1.63	5.56	Pm+Pb	49.80	7.96
6	Inside	27109	-0.02	-0.66	2.29	-0.05	-1.68	0.17	3.07	-0.03	-1.42	4.49	Pm+Pb	49.80	10.09
	Middle	27111	0.06	-0.91	1.72	-0.02	-1.73	0.08	2.58	0.05	-1.76	4.34	Pm	33.20	6.65
	Outside	27113	0.13	-1.12	1.28	-0.04	-1.93	-0.09	2.35	0.14	-2.19	4.54	Pm+Pb	49.80	9.97
7	Inside	18594	-1.52	-1.36	1.15	-0.99	-0.65	-0.30	1.31	-0.49	-2.55	3.86	Pm+Pb	49.80	11.89
	Middle	18593	-0.72	-0.69	0.75	0.09	-0.63	-0.40	1.07	-0.79	-0.95	2.02	Pm	33.20	15.44
	Outside	18592	-0.18	-0.47	0.26	0.70	-0.62	-0.47	1.09	-0.41	-1.07	2.16	Pm+Pb	49.80	22.06
8	Inside	18545	-2.57	-1.65	1.46	-0.68	-0.13	0.78	1.62	-1.36	-3.01	4.64	Pm+Pb	49.80	9.74
	Middle	18547	-1.88	-0.75	0.27	-0.50	0.00	-0.48	0.38	-0.59	-2.15	2.54	Pm	33.20	12.09
	Outside	18549	-1.21	-0.14	-0.97	-0.37	-0.15	-1.50	0.45	-0.12	-2.65	3.09	Pm+Pb	49.80	15.09
9	Inside	18511	1.05	0.89	5.73	-0.29	-0.55	-0.30	5.81	1.27	0.59	5.22	Pm+Pb	49.80	8.55
	Middle	18518	-2.81	0.85	0.58	0.30	-0.04	-0.02	0.88	0.57	-2.83	3.72	Pm	33.20	7.93
	Outside	18525	-6.39	1.07	-4.07	0.51	0.08	0.12	1.11	-4.06	-6.43	7.54	Pm+Pb	49.80	5.60

TABLE 2.10.6-93 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	2748	-7.28	-0.56	-6.59	-0.22	-0.06	0.11	-0.55	-6.58	-7.31	6.76	Pm+Pb	49.80	6.37
	Middle	2755	0.95	-0.30	-3.58	-0.22	-0.03	0.12	1.00	-0.34	-3.58	4.57	Pm	33.20	6.26
	Outside	2762	9.04	-0.02	-0.61	-0.27	-0.08	0.17	9.06	-0.02	-0.63	9.68	Pm+Pb	49.80	4.14
2	Inside	2965	3.20	-0.01	-2.77	-0.67	-0.08	0.69	3.41	-0.14	-2.85	6.26	Pm+Pb	49.80	6.96
	Middle	2967	0.72	-0.16	-3.79	-0.47	-0.14	1.22	1.21	-0.34	-4.10	5.31	Pm	33.20	5.26
	Outside	2969	-0.98	-0.11	-4.39	-0.21	-0.01	1.65	0.01	-0.43	-5.06	5.07	Pm+Pb	49.80	8.83
3	Inside	3053	3.90	3.96	-0.66	-3.90	-1.16	1.10	8.12	0.03	-0.96	9.08	Pm+Pb	49.80	4.49
	Middle	3052	0.34	0.37	-2.98	-0.24	-1.45	1.42	1.51	0.12	-3.89	5.41	Pm	33.20	5.14
	Outside	3051	-2.23	-2.22	-4.74	2.39	-1.77	1.72	0.17	-2.21	-7.15	7.32	Pm+Pb	49.80	5.81
4	Inside	11529	0.02	3.96	-0.98	-0.69	-2.27	0.07	4.94	-0.05	-1.88	6.82	Pm+Pb	49.80	6.30
	Middle	11531	-0.20	0.63	-1.70	-0.45	-2.79	0.02	2.54	-0.24	-3.57	6.12	Pm	33.20	4.43
	Outside	11533	-0.33	-1.98	-2.18	-0.16	-3.34	0.26	1.32	-0.38	-5.42	6.74	Pm+Pb	49.80	6.39
5	Inside	11312	-0.06	-2.94	-1.67	0.01	-3.32	-0.11	1.08	-0.06	-5.69	6.77	Pm+Pb	49.80	6.36
	Middle	11319	-0.01	0.65	0.84	0.01	-3.64	-0.10	4.39	-0.01	-2.89	7.28	Pm	33.20	3.56
	Outside	11326	0.04	4.24	3.34	0.02	-3.95	-0.11	7.76	0.06	-0.20	7.97	Pm+Pb	49.80	5.25
6	Inside	28657	0.05	3.08	2.92	0.49	-4.73	-0.34	7.78	0.01	-1.73	9.51	Pm+Pb	49.80	4.24
	Middle	28659	-0.19	0.35	3.25	0.31	-3.93	-0.33	6.02	-0.22	-2.39	8.40	Pm	33.20	2.95
	Outside	28661	-0.38	-1.70	3.77	0.12	-3.13	-0.16	5.20	-0.38	-3.12	8.33	Pm+Pb	49.80	4.98
7	Inside	20181	1.14	1.42	3.74	1.50	-4.49	-4.65	9.74	-0.21	-3.23	12.97	Pm+Pb	49.80	2.84
	Middle	20180	0.02	0.28	3.43	0.21	-2.24	-2.37	5.50	-0.05	-1.73	7.22	Pm	33.20	3.60
	Outside	20179	-0.73	-0.48	3.45	-0.74	-0.50	-0.54	3.56	0.14	-1.46	5.03	Pm+Pb	49.80	8.91
8	Inside	20093	-0.43	-0.22	3.58	-0.01	-0.39	-6.26	8.16	-0.22	-5.02	13.17	Pm+Pb	49.80	2.78
	Middle	20095	-0.04	-0.05	3.09	0.01	-0.35	-1.56	3.76	-0.06	-0.71	4.47	Pm	33.20	6.42
	Outside	20097	0.13	-0.21	2.35	0.06	0.00	2.83	4.28	-0.21	-1.80	6.08	Pm+Pb	49.80	7.19
9	Inside	19876	-1.17	-0.22	5.77	0.03	-0.91	-0.44	5.94	-0.35	-1.20	7.13	Pm+Pb	49.80	5.98
	Middle	19883	-0.51	-0.16	3.27	0.06	-0.95	-0.08	3.51	-0.40	-0.52	4.03	Pm	33.20	7.23
	Outside	19890	0.06	-0.21	0.55	-0.05	-0.78	0.18	1.08	0.03	-0.71	1.78	Pm+Pb	49.80	26.97

TABLE 2.10.6-94 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	2937	-7.20	-0.14	-10.08	-0.06	0.01	0.07	-0.14	-7.20	-10.08	9.94	Pm+Pb	49.80	4.01
	Middle	2944	0.38	-0.10	-8.34	-0.05	0.01	0.08	0.39	-0.10	-8.34	8.73	Pm	33.20	2.80
	Outside	2951	7.96	-0.05	-6.59	-0.05	0.00	0.09	7.96	-0.05	-6.59	14.54	Pm+Pb	49.80	2.42
2	Inside	3019	-0.69	-0.20	-8.38	-0.43	-0.05	0.97	0.09	-0.85	-8.50	8.59	Pm+Pb	49.80	4.80
	Middle	3021	0.45	-0.12	-8.53	-0.43	-0.05	1.12	0.79	-0.33	-8.67	9.46	Pm	33.20	2.51
	Outside	3023	1.57	-0.03	-8.68	-0.43	-0.05	1.27	1.82	-0.13	-8.84	10.66	Pm+Pb	49.80	3.67
3	Inside	3188	2.02	2.47	-6.10	-2.44	-1.09	1.09	4.90	-0.20	-6.32	11.23	Pm+Pb	49.80	3.44
	Middle	3187	0.04	0.39	-7.72	-0.27	-1.19	1.18	0.85	-0.09	-8.05	8.89	Pm	33.20	2.73
	Outside	3186	-1.34	-1.09	-8.97	1.26	-1.29	1.29	0.05	-2.01	-9.45	9.50	Pm+Pb	49.80	4.24
4	Inside	11583	0.05	4.37	-4.08	-0.51	-1.86	0.10	4.81	-0.01	-4.47	9.28	Pm+Pb	49.80	4.36
	Middle	11585	0.06	0.74	-5.29	-0.26	-2.09	0.10	1.45	0.00	-5.94	7.39	Pm	33.20	3.49
	Outside	11587	0.09	-2.17	-6.27	-0.08	-2.32	0.10	0.10	-1.14	-7.32	7.42	Pm+Pb	49.80	5.72
5	Inside	11501	-0.05	2.06	0.69	0.13	-2.32	-0.01	3.79	-0.05	-1.04	4.84	Pm+Pb	49.80	9.29
	Middle	11508	-0.04	1.29	0.13	0.13	-2.41	-0.01	3.19	-0.04	-1.77	4.96	Pm	33.20	5.70
	Outside	11515	-0.03	0.52	-0.43	0.13	-2.50	-0.01	2.59	-0.03	-2.50	5.10	Pm+Pb	49.80	8.77
6	Inside	28711	0.36	13.65	9.43	1.28	-2.50	-0.13	14.91	8.30	0.23	14.67	Pm+Pb	49.80	2.39
	Middle	28713	0.28	1.10	5.39	0.49	-1.97	-0.11	6.17	0.72	-0.12	6.29	Pm	33.20	4.28
	Outside	28715	0.23	-9.15	2.03	-0.13	-1.51	-0.10	2.23	0.23	-9.35	11.58	Pm+Pb	49.80	3.30
7	Inside	20316	6.28	7.47	11.55	6.64	-1.60	-1.59	15.01	10.09	0.20	14.81	Pm+Pb	49.80	2.36
	Middle	20315	0.05	0.97	8.18	0.23	-1.05	-1.03	8.46	0.83	-0.09	8.56	Pm	33.20	2.88
	Outside	20314	-4.32	-3.62	5.92	-4.28	-0.59	-0.58	5.97	0.33	-8.32	14.29	Pm+Pb	49.80	2.49
8	Inside	20147	-0.28	-0.16	8.18	1.11	-0.07	-1.53	8.45	0.74	-1.46	9.91	Pm+Pb	49.80	4.03
	Middle	20149	1.00	-0.10	9.48	1.04	-0.06	-1.00	9.59	1.53	-0.74	10.34	Pm	33.20	2.21
	Outside	20151	2.52	0.02	10.85	0.98	-0.06	-0.52	10.88	2.83	-0.32	11.21	Pm+Pb	49.80	3.44
9	Inside	20065	-17.01	-0.21	2.66	0.12	-0.01	-0.10	2.66	-0.21	-17.01	19.67	Pm+Pb	49.80	1.53
	Middle	20072	1.26	-0.16	9.26	0.12	-0.01	-0.08	9.26	1.26	-0.17	9.44	Pm	33.20	2.52
	Outside	20079	19.50	-0.12	15.85	0.12	-0.01	-0.05	19.50	15.85	-0.12	19.62	Pm+Pb	49.80	1.54

TABLE 2.10.6-95 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3399	-7.69	-0.13	-11.81	-0.06	0.00	0.05	-0.13	-7.69	-11.81	11.68	Pm+Pb	49.80	3.27
	Middle	3406	0.34	-0.09	-10.01	-0.05	0.01	0.06	0.34	-0.10	-10.01	10.35	Pm	33.20	2.21
	Outside	3413	8.35	-0.05	-8.22	-0.04	0.00	0.07	8.35	-0.05	-8.22	16.57	Pm+Pb	49.80	2.00
2	Inside	3481	-1.30	-0.28	-10.17	-0.42	-0.03	0.66	-0.12	-1.41	-10.21	10.09	Pm+Pb	49.80	3.94
	Middle	3483	0.45	-0.18	-10.24	-0.45	-0.04	0.77	0.73	-0.40	-10.30	11.03	Pm	33.20	2.01
	Outside	3485	2.08	-0.06	-10.36	-0.47	-0.04	0.88	2.24	-0.15	-10.43	12.66	Pm+Pb	49.80	2.93
3	Inside	3650	1.97	2.52	-7.51	-2.44	-0.80	0.78	4.80	-0.21	-7.62	12.41	Pm+Pb	49.80	3.01
	Middle	3649	0.02	0.44	-9.18	-0.29	-0.82	0.80	0.71	-0.12	-9.32	10.03	Pm	33.20	2.31
	Outside	3648	-1.34	-1.03	-10.52	1.23	-0.85	0.83	0.06	-2.26	-10.69	10.74	Pm+Pb	49.80	3.63
4	Inside	12045	0.06	4.82	-4.97	-0.52	-1.38	0.07	5.07	0.00	-5.16	10.22	Pm+Pb	49.80	3.87
	Middle	12047	0.07	0.80	-6.23	-0.26	-1.42	0.07	1.14	0.00	-6.50	7.64	Pm	33.20	3.34
	Outside	12049	0.10	-2.46	-7.25	-0.05	-1.47	0.07	0.10	-2.04	-7.67	7.77	Pm+Pb	49.80	5.41
5	Inside	11963	-0.05	2.73	0.76	0.13	-1.59	0.00	3.61	-0.02	-0.16	3.78	Pm+Pb	49.80	12.19
	Middle	11970	-0.04	1.38	0.23	0.13	-1.59	0.00	2.50	-0.04	-0.90	3.40	Pm	33.20	8.77
	Outside	11977	-0.03	0.03	-0.30	0.13	-1.60	0.00	1.48	-0.03	-1.75	3.23	Pm+Pb	49.80	14.44
6	Inside	29173	0.37	14.18	10.65	1.29	-1.50	-0.07	14.84	10.11	0.25	14.59	Pm+Pb	49.80	2.41
	Middle	29175	0.29	1.12	6.62	0.48	-1.28	-0.07	6.91	1.09	0.03	6.88	Pm	33.20	3.83
	Outside	29177	0.24	-9.57	3.31	-0.16	-1.09	-0.06	3.40	0.24	-9.67	13.07	Pm+Pb	49.80	2.81
7	Inside	20778	6.25	7.53	12.97	6.65	-0.91	-0.91	14.60	11.95	0.21	14.39	Pm+Pb	49.80	2.46
	Middle	20777	0.01	0.99	9.66	0.22	-0.69	-0.68	9.76	0.96	-0.07	9.83	Pm	33.20	2.38
	Outside	20776	-4.36	-3.62	7.47	-4.31	-0.51	-0.50	7.50	0.33	-8.35	15.85	Pm+Pb	49.80	2.14
8	Inside	20609	-0.77	-0.17	9.56	1.09	-0.04	-0.84	9.63	0.63	-1.64	11.27	Pm+Pb	49.80	3.42
	Middle	20611	0.95	-0.11	10.89	1.04	-0.04	-0.65	10.93	1.56	-0.76	11.69	Pm	33.20	1.84
	Outside	20613	2.84	0.01	12.28	1.01	-0.04	-0.48	12.31	3.14	-0.31	12.62	Pm+Pb	49.80	2.95
9	Inside	20527	-17.73	-0.21	4.21	0.12	0.00	-0.06	4.21	-0.21	-17.74	21.95	Pm+Pb	49.80	1.27
	Middle	20534	1.14	-0.16	10.74	0.12	0.00	-0.05	10.74	1.15	-0.17	10.91	Pm	33.20	2.04
	Outside	20541	19.99	-0.12	17.26	0.12	-0.01	-0.04	20.00	17.26	-0.12	20.11	Pm+Pb	49.80	1.48

TABLE 2.10.6-96 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	3861	-8.22	-0.17	-13.30	-0.07	0.00	0.00	-0.17	-8.22	-13.30	13.12	Pm+Pb	49.80	2.79
	Middle	3868	0.33	-0.12	-11.42	-0.06	0.00	0.00	0.34	-0.12	-11.42	11.76	Pm	33.20	1.82
	Outside	3875	8.87	-0.06	-9.54	-0.05	0.00	0.00	8.87	-0.06	-9.54	18.41	Pm+Pb	49.80	1.71
2	Inside	3943	-1.59	-0.34	-11.58	-0.43	0.00	0.00	-0.21	-1.72	-11.58	11.37	Pm+Pb	49.80	3.38
	Middle	3945	0.46	-0.21	-11.65	-0.47	0.00	0.00	0.71	-0.46	-11.65	12.36	Pm	33.20	1.69
	Outside	3947	2.35	-0.08	-11.77	-0.51	0.00	-0.01	2.45	-0.18	-11.77	14.22	Pm+Pb	49.80	2.50
3	Inside	4112	2.06	2.66	-8.60	-2.57	0.00	0.00	4.95	-0.23	-8.60	13.55	Pm+Pb	49.80	2.68
	Middle	4111	0.00	0.46	-10.37	-0.30	0.00	0.00	0.61	-0.14	-10.37	10.98	Pm	33.20	2.02
	Outside	4110	-1.44	-1.10	-11.79	1.31	0.01	0.00	0.06	-2.59	-11.79	11.85	Pm+Pb	49.80	3.20
4	Inside	12507	0.07	5.22	-5.64	-0.55	0.00	0.00	5.27	0.01	-5.64	10.91	Pm+Pb	49.80	3.56
	Middle	12509	0.08	0.81	-6.97	-0.26	0.00	0.00	0.89	-0.01	-6.97	7.87	Pm	33.20	3.22
	Outside	12511	0.11	-2.77	-8.06	-0.04	0.00	0.00	0.11	-2.77	-8.06	8.17	Pm+Pb	49.80	5.10
5	Inside	12425	-0.05	2.99	0.86	0.13	0.01	0.00	3.00	0.86	-0.06	3.05	Pm+Pb	49.80	15.31
	Middle	12432	-0.04	1.38	0.34	0.13	0.00	0.00	1.39	0.34	-0.05	1.44	Pm	33.20	21.98
	Outside	12439	-0.03	-0.23	-0.18	0.13	0.00	0.00	0.03	-0.18	-0.29	0.33	Pm+Pb	49.80	151.81
6	Inside	29635	0.38	14.25	11.54	1.29	0.01	0.00	14.37	11.54	0.26	14.11	Pm+Pb	49.80	2.53
	Middle	29637	0.29	1.11	7.56	0.47	0.01	0.00	7.56	1.33	0.08	7.48	Pm	33.20	3.44
	Outside	29639	0.23	-9.64	4.30	-0.17	0.00	0.00	4.30	0.24	-9.64	13.94	Pm+Pb	49.80	2.57
7	Inside	21240	6.20	7.49	14.05	6.64	0.00	0.01	14.05	13.52	0.17	13.88	Pm+Pb	49.80	2.59
	Middle	21239	0.00	0.99	10.85	0.23	0.00	0.00	10.85	1.04	-0.05	10.90	Pm	33.20	2.05
	Outside	21238	-4.35	-3.60	8.75	-4.28	0.00	0.00	8.75	0.32	-8.27	17.02	Pm+Pb	49.80	1.93
8	Inside	21071	-0.91	-0.17	10.71	1.09	0.00	0.00	10.71	0.61	-1.69	12.40	Pm+Pb	49.80	3.02
	Middle	21073	0.96	-0.11	12.09	1.05	0.00	0.00	12.09	1.60	-0.75	12.84	Pm	33.20	1.59
	Outside	21075	2.98	0.00	13.53	1.01	0.00	0.00	13.53	3.29	-0.31	13.84	Pm+Pb	49.80	2.60
9	Inside	20989	-17.95	-0.21	5.38	0.12	0.00	0.00	5.38	-0.21	-17.95	23.33	Pm+Pb	49.80	1.13
	Middle	20996	1.13	-0.16	11.92	0.12	0.00	0.00	11.92	1.15	-0.17	12.09	Pm	33.20	1.75
	Outside	21003	20.20	-0.12	18.46	0.12	0.00	0.00	20.20	18.46	-0.12	20.32	Pm+Pb	49.80	1.45

TABLE 2.10.6-97 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	1383	0.04	1.25	6.82	0.38	1.20	-0.12	7.07	1.14	-0.11	7.18	Pm+Pb	50.00	5.97
	Middle	1390	2.51	0.53	5.01	0.12	0.80	0.19	5.17	2.50	0.39	4.78	Pm	33.30	5.97
	Outside	1397	5.21	0.05	3.41	0.07	0.69	0.49	5.35	3.40	-0.09	5.44	Pm+Pb	50.00	8.20
2	Inside	1417	2.33	0.02	5.32	-0.41	0.14	-0.75	5.50	2.21	-0.05	5.56	Pm+Pb	50.00	8.00
	Middle	1419	0.84	-0.07	4.26	-0.19	-0.03	0.55	4.35	0.79	-0.11	4.46	Pm	33.30	6.47
	Outside	1421	-0.50	-0.08	3.13	-0.03	-0.19	1.73	3.83	-0.09	-1.19	5.02	Pm+Pb	50.00	8.95
3	Inside	1466	1.69	1.46	4.96	-1.55	-0.96	0.71	5.54	2.55	0.01	5.53	Pm+Pb	50.00	8.04
	Middle	1465	0.25	0.12	4.45	0.06	-1.03	0.76	4.80	0.27	-0.24	5.04	Pm	33.30	5.60
	Outside	1464	-0.88	-0.86	4.04	1.20	-1.09	0.86	4.34	0.32	-2.37	6.71	Pm+Pb	50.00	6.45
4	Inside	9981	0.04	1.58	6.21	-0.51	-2.80	0.34	7.57	0.48	-0.21	7.79	Pm+Pb	50.00	5.42
	Middle	9983	-0.07	0.00	5.46	-0.23	-1.95	0.23	6.10	-0.04	-0.66	6.76	Pm	33.30	3.92
	Outside	9985	-0.06	-1.40	4.74	-0.01	-1.17	0.08	4.96	-0.06	-1.62	6.57	Pm+Pb	50.00	6.61
5	Inside	9947	0.07	-0.69	7.58	-0.24	-2.60	0.60	8.38	0.02	-1.45	9.82	Pm+Pb	50.00	4.09
	Middle	9954	-0.07	0.48	6.75	-0.15	-2.61	0.41	7.72	-0.09	-0.46	8.18	Pm	33.30	3.07
	Outside	9961	-0.15	1.72	5.98	-0.06	-2.70	0.30	7.30	0.42	-0.17	7.47	Pm+Pb	50.00	5.69
6	Inside	27109	-0.02	-0.66	7.69	-0.05	-1.68	0.17	8.02	-0.02	-0.99	9.01	Pm+Pb	50.00	4.55
	Middle	27111	0.06	-0.91	7.12	-0.02	-1.73	0.08	7.47	0.06	-1.26	8.74	Pm	33.30	2.81
	Outside	27113	0.13	-1.12	6.68	-0.04	-1.93	-0.09	7.13	0.14	-1.57	8.70	Pm+Pb	50.00	4.75
7	Inside	18594	-1.52	-1.36	6.55	-0.99	-0.65	-0.30	6.61	-0.46	-2.48	9.09	Pm+Pb	50.00	4.50
	Middle	18593	-0.72	-0.69	6.15	0.09	-0.63	-0.40	6.23	-0.69	-0.80	7.03	Pm	33.30	3.74
	Outside	18592	-0.18	-0.47	5.66	0.70	-0.62	-0.47	5.77	0.28	-1.04	6.81	Pm+Pb	50.00	6.34
8	Inside	18545	-2.57	-1.65	6.86	-0.68	-0.13	0.78	6.93	-1.32	-2.96	9.89	Pm+Pb	50.00	4.06
	Middle	18547	-1.88	-0.75	5.67	-0.50	0.00	-0.48	5.70	-0.56	-2.09	7.80	Pm	33.30	3.27
	Outside	18549	-1.21	-0.14	4.43	-0.37	-0.15	-1.50	4.80	-0.04	-1.69	6.48	Pm+Pb	50.00	6.71
9	Inside	18511	1.05	0.89	11.13	-0.29	-0.55	-0.30	11.17	1.27	0.63	10.54	Pm+Pb	50.00	3.74
	Middle	18518	-2.81	0.85	5.98	0.30	-0.04	-0.02	5.98	0.88	-2.83	8.81	Pm	33.30	2.78
	Outside	18525	-6.39	1.07	1.33	0.51	0.08	0.12	1.37	1.07	-6.43	7.80	Pm+Pb	50.00	5.41

TABLE 2.10.6-98 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	2748	-7.28	-0.56	-1.19	-0.22	-0.06	0.11	-0.54	-1.20	-7.29	6.75	Pm+Pb	50.00	6.41
	Middle	2755	0.95	-0.30	1.82	-0.22	-0.03	0.12	1.84	0.97	-0.34	2.19	Pm	33.30	14.24
	Outside	2762	9.04	-0.02	4.79	-0.27	-0.08	0.17	9.06	4.78	-0.03	9.09	Pm+Pb	50.00	4.50
2	Inside	2965	3.20	-0.01	2.63	-0.67	-0.08	0.69	3.76	2.21	-0.15	3.90	Pm+Pb	50.00	11.81
	Middle	2967	0.72	-0.16	1.61	-0.47	-0.14	1.22	2.52	0.13	-0.49	3.01	Pm	33.30	10.08
	Outside	2969	-0.98	-0.11	1.01	-0.21	-0.01	1.65	1.95	-0.10	-1.93	3.88	Pm+Pb	50.00	11.87
3	Inside	3053	3.90	3.96	4.74	-3.90	-1.16	1.10	8.51	4.06	0.03	8.48	Pm+Pb	50.00	4.89
	Middle	3052	0.34	0.37	2.42	-0.24	-1.45	1.42	3.73	0.12	-0.71	4.45	Pm	33.30	6.49
	Outside	3051	-2.23	-2.22	0.66	2.39	-1.77	1.72	1.64	0.16	-5.59	7.23	Pm+Pb	50.00	5.91
4	Inside	11529	0.02	3.96	4.42	-0.69	-2.27	0.07	6.51	2.02	-0.13	6.64	Pm+Pb	50.00	6.53
	Middle	11531	-0.20	0.63	3.70	-0.45	-2.79	0.02	5.36	-0.06	-1.16	6.53	Pm	33.30	4.10
	Outside	11533	-0.33	-1.98	3.22	-0.16	-3.34	0.26	4.88	-0.35	-3.61	8.49	Pm+Pb	50.00	4.89
5	Inside	11312	-0.06	-2.94	3.73	0.01	-3.32	-0.11	5.10	-0.06	-4.31	9.41	Pm+Pb	50.00	4.31
	Middle	11319	-0.01	0.65	6.24	0.01	-3.64	-0.10	8.03	-0.01	-1.14	9.17	Pm	33.30	2.63
	Outside	11326	0.04	4.24	8.74	0.02	-3.95	-0.11	11.03	1.94	0.04	10.99	Pm+Pb	50.00	3.55
6	Inside	28657	0.05	3.08	8.32	0.49	-4.73	-0.34	11.14	0.44	-0.12	11.26	Pm+Pb	50.00	3.44
	Middle	28659	-0.19	0.35	8.65	0.31	-3.93	-0.33	10.23	-0.18	-1.24	11.46	Pm	33.30	1.91
	Outside	28661	-0.38	-1.70	9.17	0.12	-3.13	-0.16	10.01	-0.38	-2.54	12.55	Pm+Pb	50.00	2.98
7	Inside	20181	1.14	1.42	9.14	1.50	-4.49	-4.65	13.16	-0.19	-1.27	14.43	Pm+Pb	50.00	2.46
	Middle	20180	0.02	0.28	8.83	0.21	-2.24	-2.37	9.94	-0.03	-0.78	10.72	Pm	33.30	2.11
	Outside	20179	-0.73	-0.48	8.85	-0.74	-0.50	-0.54	8.91	0.14	-1.41	10.31	Pm+Pb	50.00	3.85
8	Inside	20093	-0.43	-0.22	8.98	-0.01	-0.39	-6.26	12.11	-0.22	-3.57	15.69	Pm+Pb	50.00	2.19
	Middle	20095	-0.04	-0.05	8.49	0.01	-0.35	-1.56	8.78	-0.06	-0.33	9.11	Pm	33.30	2.66
	Outside	20097	0.13	-0.21	7.75	0.06	0.00	2.83	8.68	-0.21	-0.81	9.49	Pm+Pb	50.00	4.27
9	Inside	19876	-1.17	-0.22	11.17	0.03	-0.91	-0.44	11.26	-0.29	-1.19	12.45	Pm+Pb	50.00	3.02
	Middle	19883	-0.51	-0.16	8.67	0.06	-0.95	-0.08	8.77	-0.25	-0.52	9.29	Pm	33.30	2.59
	Outside	19890	0.06	-0.21	5.95	-0.05	-0.78	0.18	6.06	0.06	-0.31	6.37	Pm+Pb	50.00	6.85

TABLE 2.10.6-99 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	2937	-7.20	-0.14	-4.68	-0.06	0.01	0.07	-0.14	-4.68	-7.20	7.06	Pm+Pb	50.00	6.08
	Middle	2944	0.38	-0.10	-2.94	-0.05	0.01	0.08	0.39	-0.10	-2.94	3.33	Pm	33.30	9.00
	Outside	2951	7.96	-0.05	-1.19	-0.05	0.00	0.09	7.96	-0.05	-1.19	9.14	Pm+Pb	50.00	4.47
2	Inside	3019	-0.69	-0.20	-2.98	-0.43	-0.05	0.97	0.16	-0.69	-3.34	3.50	Pm+Pb	50.00	13.28
	Middle	3021	0.45	-0.12	-3.13	-0.43	-0.05	1.12	0.94	-0.29	-3.46	4.40	Pm	33.30	6.57
	Outside	3023	1.57	-0.03	-3.28	-0.43	-0.05	1.27	1.97	-0.12	-3.59	5.57	Pm+Pb	50.00	7.98
3	Inside	3188	2.02	2.47	-0.70	-2.44	-1.09	1.09	5.10	-0.20	-1.12	6.22	Pm+Pb	50.00	7.04
	Middle	3187	0.04	0.39	-2.32	-0.27	-1.19	1.18	1.29	-0.08	-3.10	4.39	Pm	33.30	6.59
	Outside	3186	-1.34	-1.09	-3.57	1.26	-1.29	1.29	0.06	-1.13	-4.93	4.98	Pm+Pb	50.00	9.03
4	Inside	11583	0.05	4.37	1.32	-0.51	-1.86	0.10	5.29	0.48	-0.03	5.33	Pm+Pb	50.00	8.39
	Middle	11585	0.06	0.74	0.11	-0.26	-2.09	0.10	2.57	0.04	-1.69	4.25	Pm	33.30	6.83
	Outside	11587	0.09	-2.17	-0.87	-0.08	-2.32	0.10	0.90	0.07	-3.93	4.84	Pm+Pb	50.00	9.34
5	Inside	11501	-0.05	2.06	6.09	0.13	-2.32	-0.01	7.15	1.02	-0.06	7.21	Pm+Pb	50.00	5.94
	Middle	11508	-0.04	1.29	5.53	0.13	-2.41	-0.01	6.62	0.25	-0.09	6.71	Pm	33.30	3.97
	Outside	11515	-0.03	0.52	4.97	0.13	-2.50	-0.01	6.09	-0.01	-0.63	6.72	Pm+Pb	50.00	6.44
6	Inside	28711	0.36	13.65	14.83	1.28	-2.50	-0.13	16.86	11.75	0.23	16.62	Pm+Pb	50.00	2.01
	Middle	28713	0.28	1.10	10.79	0.49	-1.97	-0.11	11.18	1.00	-0.01	11.19	Pm	33.30	1.98
	Outside	28715	0.23	-9.15	7.43	-0.13	-1.51	-0.10	7.56	0.23	-9.29	16.85	Pm+Pb	50.00	1.97
7	Inside	20316	6.28	7.47	16.95	6.64	-1.60	-1.59	18.07	12.43	0.20	17.87	Pm+Pb	50.00	1.80
	Middle	20315	0.05	0.97	13.58	0.23	-1.05	-1.03	13.75	0.91	-0.06	13.81	Pm	33.30	1.41
	Outside	20314	-4.32	-3.62	11.32	-4.28	-0.59	-0.58	11.36	0.33	-8.30	19.66	Pm+Pb	50.00	1.54
8	Inside	20147	-0.28	-0.16	13.58	1.11	-0.07	-1.53	13.75	0.80	-1.41	15.16	Pm+Pb	50.00	2.30
	Middle	20149	1.00	-0.10	14.88	1.04	-0.06	-1.00	14.95	1.57	-0.74	15.68	Pm	33.30	1.12
	Outside	20151	2.52	0.02	16.25	0.98	-0.06	-0.52	16.27	2.84	-0.32	16.59	Pm+Pb	50.00	2.01
9	Inside	20065	-17.01	-0.21	8.06	0.12	-0.01	-0.10	8.06	-0.21	-17.01	25.07	Pm+Pb	50.00	0.99
	Middle	20072	1.26	-0.16	14.66	0.12	-0.01	-0.08	14.66	1.26	-0.17	14.84	Pm	33.30	1.24
	Outside	20079	19.50	-0.12	21.25	0.12	-0.01	-0.05	21.25	19.50	-0.12	21.37	Pm+Pb	50.00	1.34

TABLE 2.10.6-100 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3399	-7.69	-0.13	-6.41	-0.06	0.00	0.05	-0.13	-6.40	-7.69	7.56	Pm+Pb	50.00	5.61
	Middle	3406	0.34	-0.09	-4.61	-0.05	0.01	0.06	0.35	-0.10	-4.61	4.95	Pm	33.30	5.72
	Outside	3413	8.35	-0.05	-2.82	-0.04	0.00	0.07	8.35	-0.05	-2.82	11.17	Pm+Pb	50.00	3.47
2	Inside	3481	-1.30	-0.28	-4.77	-0.42	-0.03	0.66	-0.12	-1.34	-4.89	4.77	Pm+Pb	50.00	9.48
	Middle	3483	0.45	-0.18	-4.84	-0.45	-0.04	0.77	0.77	-0.39	-4.95	5.73	Pm	33.30	4.81
	Outside	3485	2.08	-0.06	-4.96	-0.47	-0.04	0.88	2.28	-0.15	-5.07	7.36	Pm+Pb	50.00	5.80
3	Inside	3650	1.97	2.52	-2.11	-2.44	-0.80	0.78	4.88	-0.21	-2.29	7.17	Pm+Pb	50.00	5.97
	Middle	3649	0.02	0.44	-3.78	-0.29	-0.82	0.80	0.86	-0.11	-4.07	4.92	Pm	33.30	5.76
	Outside	3648	-1.34	-1.03	-5.12	1.23	-0.85	0.83	0.06	-1.98	-5.57	5.62	Pm+Pb	50.00	7.89
4	Inside	12045	0.06	4.82	0.43	-0.52	-1.38	0.07	5.27	0.10	-0.06	5.33	Pm+Pb	50.00	8.38
	Middle	12047	0.07	0.80	-0.83	-0.26	-1.42	0.07	1.66	0.03	-1.65	3.31	Pm	33.30	9.06
	Outside	12049	0.10	-2.46	-1.85	-0.05	-1.47	0.07	0.11	-0.67	-3.65	3.76	Pm+Pb	50.00	12.30
5	Inside	11963	-0.05	2.73	6.16	0.13	-1.59	0.00	6.78	2.11	-0.06	6.84	Pm+Pb	50.00	6.31
	Middle	11970	-0.04	1.38	5.63	0.13	-1.59	0.00	6.16	0.86	-0.06	6.22	Pm	33.30	4.36
	Outside	11977	-0.03	0.03	5.10	0.13	-1.60	0.00	5.56	0.01	-0.47	6.04	Pm+Pb	50.00	7.28
6	Inside	29173	0.37	14.18	16.05	1.29	-1.50	-0.07	16.91	13.44	0.25	16.66	Pm+Pb	50.00	2.00
	Middle	29175	0.29	1.12	12.02	0.48	-1.28	-0.07	12.17	1.21	0.05	12.12	Pm	33.30	1.75
	Outside	29177	0.24	-9.57	8.71	-0.16	-1.09	-0.06	8.77	0.24	-9.64	18.41	Pm+Pb	50.00	1.72
7	Inside	20778	6.25	7.53	18.37	6.65	-0.91	-0.91	18.69	13.25	0.21	18.49	Pm+Pb	50.00	1.70
	Middle	20777	0.01	0.99	15.06	0.22	-0.69	-0.68	15.12	0.99	-0.06	15.18	Pm	33.30	1.19
	Outside	20776	-4.36	-3.62	12.87	-4.31	-0.51	-0.50	12.89	0.33	-8.34	21.23	Pm+Pb	50.00	1.35
8	Inside	20609	-0.77	-0.17	14.96	1.09	-0.04	-0.84	15.01	0.64	-1.63	16.64	Pm+Pb	50.00	2.01
	Middle	20611	0.95	-0.11	16.29	1.04	-0.04	-0.65	16.32	1.57	-0.75	17.07	Pm	33.30	0.95
	Outside	20613	2.84	0.01	17.68	1.01	-0.04	-0.48	17.70	3.15	-0.31	18.01	Pm+Pb	50.00	1.78
9	Inside	20527	-17.73	-0.21	9.61	0.12	0.00	-0.06	9.61	-0.21	-17.74	27.35	Pm+Pb	50.00	0.83
	Middle	20534	1.14	-0.16	16.14	0.12	0.00	-0.05	16.14	1.15	-0.17	16.31	Pm	33.30	1.04
	Outside	20541	19.99	-0.12	22.66	0.12	-0.01	-0.04	22.66	19.99	-0.12	22.78	Pm+Pb	50.00	1.20

TABLE 2.10.6-101 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3861	-8.22	-0.17	-7.90	-0.07	0.00	0.00	-0.17	-7.90	-8.22	8.05	Pm+Pb	50.00	5.21
	Middle	3868	0.33	-0.12	-6.02	-0.06	0.00	0.00	0.34	-0.12	-6.02	6.36	Pm	33.30	4.24
	Outside	3875	8.87	-0.06	-4.14	-0.05	0.00	0.00	8.87	-0.06	-4.14	13.01	Pm+Pb	50.00	2.84
2	Inside	3943	-1.59	-0.34	-6.18	-0.43	0.00	0.00	-0.21	-1.72	-6.18	5.97	Pm+Pb	50.00	7.37
	Middle	3945	0.46	-0.21	-6.25	-0.47	0.00	0.00	0.71	-0.46	-6.25	6.96	Pm	33.30	3.79
	Outside	3947	2.35	-0.08	-6.37	-0.51	0.00	-0.01	2.45	-0.18	-6.37	8.82	Pm+Pb	50.00	4.67
3	Inside	4112	2.06	2.66	-3.20	-2.57	0.00	0.00	4.95	-0.23	-3.20	8.15	Pm+Pb	50.00	5.14
	Middle	4111	0.00	0.46	-4.97	-0.30	0.00	0.00	0.61	-0.14	-4.97	5.58	Pm	33.30	4.96
	Outside	4110	-1.44	-1.10	-6.39	1.31	0.01	0.00	0.06	-2.59	-6.39	6.45	Pm+Pb	50.00	6.76
4	Inside	12507	0.07	5.22	-0.24	-0.55	0.00	0.00	5.27	0.01	-0.24	5.51	Pm+Pb	50.00	8.07
	Middle	12509	0.08	0.81	-1.57	-0.26	0.00	0.00	0.89	-0.01	-1.57	2.47	Pm	33.30	12.49
	Outside	12511	0.11	-2.77	-2.66	-0.04	0.00	0.00	0.11	-2.66	-2.77	2.87	Pm+Pb	50.00	16.40
5	Inside	12425	-0.05	2.99	6.26	0.13	0.01	0.00	6.26	3.00	-0.06	6.31	Pm+Pb	50.00	6.92
	Middle	12432	-0.04	1.38	5.74	0.13	0.00	0.00	5.74	1.39	-0.05	5.79	Pm	33.30	4.75
	Outside	12439	-0.03	-0.23	5.22	0.13	0.00	0.00	5.22	0.03	-0.29	5.51	Pm+Pb	50.00	8.07
6	Inside	29635	0.38	14.25	16.94	1.29	0.01	0.00	16.94	14.37	0.26	16.68	Pm+Pb	50.00	2.00
	Middle	29637	0.29	1.11	12.96	0.47	0.01	0.00	12.96	1.33	0.08	12.88	Pm	33.30	1.59
	Outside	29639	0.23	-9.64	9.70	-0.17	0.00	0.00	9.70	0.24	-9.64	19.34	Pm+Pb	50.00	1.59
7	Inside	21240	6.20	7.49	19.45	6.64	0.00	0.01	19.45	13.52	0.17	19.28	Pm+Pb	50.00	1.59
	Middle	21239	0.00	0.99	16.25	0.23	0.00	0.00	16.25	1.04	-0.05	16.30	Pm	33.30	1.04
	Outside	21238	-4.35	-3.60	14.15	-4.28	0.00	0.00	14.15	0.32	-8.27	22.42	Pm+Pb	50.00	1.23
8	Inside	21071	-0.91	-0.17	16.11	1.09	0.00	0.00	16.11	0.61	-1.69	17.80	Pm+Pb	50.00	1.81
	Middle	21073	0.96	-0.11	17.49	1.05	0.00	0.00	17.49	1.60	-0.75	18.24	Pm	33.30	0.83
	Outside	21075	2.98	0.00	18.93	1.01	0.00	0.00	18.93	3.29	-0.31	19.24	Pm+Pb	50.00	1.60
9	Inside	20989	-17.95	-0.21	10.78	0.12	0.00	0.00	10.78	-0.21	-17.95	28.73	Pm+Pb	50.00	0.74
	Middle	20996	1.13	-0.16	17.32	0.12	0.00	0.00	17.32	1.15	-0.17	17.49	Pm	33.30	0.90
	Outside	21003	20.20	-0.12	23.86	0.12	0.00	0.00	23.86	20.20	-0.12	23.98	Pm+Pb	50.00	1.09

TABLE 2.10.6-102 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	10030	3.63	0.14	-2.15	-0.44	-0.07	0.24	3.70	0.09	-2.17	5.86	Pm+Pb	49.80	7.50
	Middle	10029	-0.42	0.35	-2.94	-0.03	-0.11	0.13	0.36	-0.41	-2.95	3.31	Pm	33.20	9.04
	Outside	10028	-3.51	0.34	-3.87	0.28	-0.07	0.07	0.36	-3.52	-3.88	4.24	Pm+Pb	49.80	10.74
4	Inside	9981	1.81	0.94	-0.91	-1.26	-0.91	1.38	3.35	0.04	-1.55	4.90	Pm+Pb	49.80	9.17
	Middle	9983	0.19	-0.16	-2.19	-0.08	-0.69	0.88	0.61	-0.13	-2.64	3.25	Pm	33.20	9.21
	Outside	9985	-1.25	-1.12	-3.65	1.04	-0.51	0.54	-0.14	-1.91	-3.96	3.82	Pm+Pb	49.80	12.03
5	Inside	1383	0.40	-0.05	1.20	-0.08	-0.75	1.54	2.55	-0.02	-0.98	3.54	Pm+Pb	49.80	13.08
	Middle	1390	1.07	0.74	0.13	-0.96	-1.02	1.54	3.04	-0.04	-1.06	4.10	Pm	33.20	7.10
	Outside	1397	1.79	1.57	-0.96	-1.83	-1.24	1.64	4.31	-0.13	-1.78	6.08	Pm+Pb	49.80	7.18
6	Inside	1417	-1.18	-0.69	0.47	-0.90	-0.90	1.06	1.63	-1.10	-1.93	3.56	Pm+Pb	49.80	12.97
	Middle	1419	-0.16	0.24	0.80	-1.09	-1.65	1.64	3.30	-1.00	-1.42	4.71	Pm	33.20	6.04
	Outside	1421	0.58	1.00	1.03	-1.08	-2.47	2.24	4.82	-0.30	-1.91	6.73	Pm+Pb	49.80	6.40
7	Inside	1466	0.01	1.25	1.47	-0.18	-2.13	0.00	3.50	0.03	-0.80	4.30	Pm+Pb	49.80	10.58
	Middle	1465	0.14	0.65	0.82	-0.07	-1.87	-0.08	2.60	0.15	-1.15	3.75	Pm	33.20	7.85
	Outside	1464	0.29	0.40	0.43	0.09	-1.70	-0.10	2.13	0.28	-1.28	3.41	Pm+Pb	49.80	13.61
8	Inside	18545	-1.38	-1.18	2.41	0.16	-1.83	-1.00	3.38	-1.47	-2.07	5.45	Pm+Pb	49.80	8.14
	Middle	18547	-0.40	-0.36	1.23	0.40	-1.20	-0.79	2.18	-0.70	-1.01	3.18	Pm	33.20	9.43
	Outside	18549	0.33	0.35	0.07	0.54	-0.74	-0.47	1.43	-0.14	-0.55	1.98	Pm+Pb	49.80	24.17
9	Inside	18511	0.89	0.39	6.44	-0.16	-0.68	0.60	6.58	0.84	0.30	6.28	Pm+Pb	49.80	6.93
	Middle	18518	-0.23	-0.63	1.79	-1.01	-0.76	-0.26	2.01	0.55	-1.63	3.64	Pm	33.20	8.13
	Outside	18525	-1.07	-1.47	-2.40	-1.85	-1.12	-0.89	0.59	-1.29	-4.24	4.83	Pm+Pb	49.80	9.31
10	Inside	27109	-1.34	0.00	2.93	-0.87	-1.48	-1.19	3.67	0.27	-2.35	6.03	Pm+Pb	49.80	7.26
	Middle	27111	-2.05	-0.96	0.35	-1.85	-0.24	-0.19	0.48	0.32	-3.46	3.94	Pm	33.20	7.44
	Outside	27113	-2.64	-1.55	-2.00	-2.38	0.62	0.71	0.34	-1.69	-4.84	5.19	Pm+Pb	49.80	8.60
11	Inside	27158	-4.69	-0.84	0.77	-0.69	-0.57	-0.23	0.95	-0.88	-4.82	5.77	Pm+Pb	49.80	7.63
	Middle	27157	-2.63	-1.60	-0.48	-0.58	-0.38	-0.02	-0.35	-1.46	-2.90	2.55	Pm	33.20	12.03
	Outside	27156	-2.12	-2.23	-2.14	-0.55	-0.27	0.18	-1.47	-2.28	-2.74	1.27	Pm+Pb	49.80	38.23

TABLE 2.10.6-103 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	11617	7.72	0.03	-3.16	-0.77	-0.04	0.12	7.80	-0.05	-3.16	10.96	Pm+Pb	49.80	3.54
	Middle	11616	0.47	0.12	-5.71	-0.03	-0.02	0.10	0.47	0.12	-5.71	6.18	Pm	33.20	4.37
	Outside	11615	-4.76	0.17	-7.70	0.49	-0.04	0.08	0.22	-4.81	-7.70	7.92	Pm+Pb	49.80	5.29
4	Inside	11529	2.65	1.35	-3.87	-1.96	-0.57	0.59	4.15	-0.06	-3.96	8.11	Pm+Pb	49.80	5.14
	Middle	11531	0.62	-0.19	-5.19	-0.40	-0.60	0.54	0.87	-0.33	-5.30	6.17	Pm	33.20	4.38
	Outside	11533	-0.95	-1.19	-6.11	0.84	-0.49	0.71	-0.22	-1.76	-6.28	6.07	Pm+Pb	49.80	7.21
5	Inside	2748	-2.30	-2.35	-4.31	2.30	-0.73	0.77	-0.03	-3.39	-5.54	5.51	Pm+Pb	49.80	8.04
	Middle	2755	0.49	0.44	-2.15	-0.44	-1.20	1.24	1.69	0.02	-2.93	4.61	Pm	33.20	6.20
	Outside	2762	3.29	3.24	0.03	-3.16	-1.70	1.69	7.22	0.10	-0.76	7.99	Pm+Pb	49.80	5.23
6	Inside	2965	0.74	2.05	0.69	-1.47	-2.11	1.70	4.78	-0.16	-1.15	5.93	Pm+Pb	49.80	7.40
	Middle	2967	-0.16	0.80	0.32	-0.50	-2.37	1.94	3.70	-0.26	-2.49	6.19	Pm	33.20	4.36
	Outside	2969	-0.66	-0.17	0.19	0.22	-2.52	2.23	3.19	-0.23	-3.60	6.79	Pm+Pb	49.80	6.34
7	Inside	3053	-0.03	6.67	2.97	-0.05	-4.46	-0.16	9.65	0.14	-0.18	9.84	Pm+Pb	49.80	4.06
	Middle	3052	0.07	0.74	1.44	-0.06	-3.45	-0.14	4.56	0.07	-2.39	6.95	Pm	33.20	3.78
	Outside	3051	0.12	-3.50	0.36	-0.07	-2.75	-0.15	1.80	0.11	-4.93	6.73	Pm+Pb	49.80	6.40
8	Inside	20093	0.16	1.00	2.05	0.75	-3.84	-3.65	7.02	-0.18	-3.63	10.65	Pm+Pb	49.80	3.68
	Middle	20095	-0.15	0.52	2.00	0.34	-2.58	-2.39	4.87	-0.16	-2.34	7.21	Pm	33.20	3.61
	Outside	20097	-0.28	0.12	2.00	0.06	-1.40	-1.24	3.13	-0.14	-1.15	4.28	Pm+Pb	49.80	10.64
9	Inside	19876	-1.25	-1.60	2.63	-1.25	-3.31	-2.81	5.06	-0.16	-5.11	10.17	Pm+Pb	49.80	3.90
	Middle	19883	0.01	-0.33	2.91	-0.07	-2.40	-1.95	4.81	-0.05	-2.16	6.97	Pm	33.20	3.76
	Outside	19890	1.25	0.94	3.24	1.11	-1.43	-1.12	4.60	0.92	-0.09	4.69	Pm+Pb	49.80	9.61
10	Inside	28657	0.66	0.42	3.51	0.63	-0.46	-0.28	3.63	1.08	-0.11	3.74	Pm+Pb	49.80	12.33
	Middle	28659	-0.28	-0.33	3.54	-0.13	-1.65	-1.51	4.55	-0.17	-1.45	5.99	Pm	33.20	4.54
	Outside	28661	-1.23	-1.20	3.43	-0.70	-2.66	-2.71	5.40	-0.52	-3.89	9.28	Pm+Pb	49.80	4.36
11	Inside	28745	0.95	-0.29	3.30	0.11	-0.05	-0.11	3.31	0.96	-0.30	3.61	Pm+Pb	49.80	12.79
	Middle	28744	-0.09	-0.08	3.38	0.00	-0.08	-0.36	3.42	-0.08	-0.13	3.55	Pm	33.20	8.35
	Outside	28743	-0.78	0.24	3.88	0.01	-0.20	-0.44	3.94	0.23	-0.82	4.75	Pm+Pb	49.80	9.48

TABLE 2.10.6-104 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	11752	3.69	-0.25	-8.71	-0.44	0.03	0.04	3.74	-0.30	-8.71	12.45	Pm+Pb	49.80	3.00
	Middle	11751	0.58	-0.11	-10.04	-0.09	0.03	0.07	0.60	-0.12	-10.05	10.64	Pm	33.20	2.12
	Outside	11750	-1.63	0.02	-11.13	0.16	0.02	0.09	0.03	-1.64	-11.13	11.16	Pm+Pb	49.80	3.46
4	Inside	11583	0.76	-0.11	-8.75	-0.41	-0.09	0.15	0.93	-0.27	-8.75	9.68	Pm+Pb	49.80	4.15
	Middle	11585	0.67	-0.08	-9.12	-0.34	-0.33	0.39	0.82	-0.20	-9.14	9.97	Pm	33.20	2.33
	Outside	11587	0.69	0.03	-9.42	-0.34	-0.55	0.62	0.89	-0.10	-9.49	10.38	Pm+Pb	49.80	3.80
5	Inside	2937	-2.45	-2.33	-7.03	2.18	-0.61	0.61	-0.21	-4.31	-7.30	7.09	Pm+Pb	49.80	6.02
	Middle	2944	0.25	0.38	-5.87	-0.46	-0.96	0.96	1.05	-0.15	-6.13	7.18	Pm	33.20	3.62
	Outside	2951	2.94	3.07	-4.70	-3.09	-1.32	1.31	6.41	-0.09	-5.01	11.42	Pm+Pb	49.80	3.36
6	Inside	3019	2.55	4.68	-0.45	-3.67	-1.47	1.28	7.89	-0.18	-0.93	8.82	Pm+Pb	49.80	4.65
	Middle	3021	-0.28	0.91	-2.94	-0.32	-1.49	1.31	1.72	-0.20	-3.83	5.55	Pm	33.20	4.98
	Outside	3023	-2.54	-2.08	-5.03	2.38	-1.54	1.36	0.10	-2.83	-6.92	7.02	Pm+Pb	49.80	6.09
7	Inside	3188	0.27	13.15	3.24	-0.04	-2.59	-0.02	13.79	2.61	0.27	13.52	Pm+Pb	49.80	2.68
	Middle	3187	0.30	0.44	-0.66	-0.03	-2.18	-0.02	2.14	0.30	-2.36	4.50	Pm	33.20	6.38
	Outside	3186	0.32	-8.47	-3.43	-0.03	-1.88	-0.02	0.32	-2.81	-9.09	9.41	Pm+Pb	49.80	4.29
8	Inside	20147	2.00	4.06	3.22	2.95	-1.98	-1.83	7.74	1.68	-0.15	7.89	Pm+Pb	49.80	5.31
	Middle	20149	-0.22	1.08	2.02	0.35	-1.66	-1.52	3.80	0.20	-1.11	4.91	Pm	33.20	5.76
	Outside	20151	-1.93	-1.21	1.18	-1.70	-1.37	-1.25	1.88	0.12	-3.96	5.84	Pm+Pb	49.80	7.53
9	Inside	20065	-3.03	-2.98	3.80	-2.93	-1.63	-1.63	4.32	-0.08	-6.45	10.77	Pm+Pb	49.80	3.63
	Middle	20072	0.58	0.65	6.42	0.68	-1.32	-1.32	7.03	0.70	-0.07	7.10	Pm	33.20	3.68
	Outside	20079	4.18	4.28	9.03	4.29	-1.01	-1.01	10.23	7.32	-0.05	10.28	Pm+Pb	49.80	3.84
10	Inside	28711	2.31	0.66	11.04	1.50	-0.74	-0.77	11.18	3.07	-0.23	11.41	Pm+Pb	49.80	3.36
	Middle	28713	1.21	-0.04	11.01	0.59	-0.54	-0.56	11.07	1.39	-0.28	11.35	Pm	33.20	1.93
	Outside	28715	0.44	-0.50	11.13	-0.07	-0.35	-0.36	11.15	0.43	-0.51	11.67	Pm+Pb	49.80	3.27
11	Inside	28880	7.84	-0.11	13.55	0.80	-0.04	-0.14	13.56	7.91	-0.19	13.75	Pm+Pb	49.80	2.62
	Middle	28879	1.00	0.01	12.29	0.08	-0.04	-0.10	12.29	1.01	0.01	12.29	Pm	33.20	1.70
	Outside	28878	-3.84	0.13	11.60	-0.42	-0.04	-0.06	11.60	0.17	-3.89	15.48	Pm+Pb	49.80	2.22

TABLE 2.10.6-105 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F) SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	12214	1.80	-0.36	-10.84	-0.28	0.02	0.03	1.84	-0.39	-10.84	12.68	Pm+Pb	49.80	2.93
	Middle	12213	0.65	-0.19	-11.64	-0.11	0.01	0.05	0.66	-0.20	-11.64	12.30	Pm	33.20	1.70
	Outside	12212	-0.20	-0.05	-12.37	0.01	0.01	0.07	-0.05	-0.20	-12.37	12.32	Pm+Pb	49.80	3.04
4	Inside	12045	0.00	-0.60	-10.56	0.20	-0.09	0.14	0.06	-0.66	-10.56	10.62	Pm+Pb	49.80	3.69
	Middle	12047	0.61	-0.03	-10.60	-0.35	-0.25	0.29	0.78	-0.18	-10.61	11.39	Pm	33.20	1.91
	Outside	12049	1.20	0.53	-10.65	-0.86	-0.40	0.45	1.82	-0.06	-10.68	12.50	Pm+Pb	49.80	2.98
5	Inside	3399	-2.15	-2.00	-7.89	2.06	-0.45	0.43	-0.02	-4.04	-7.99	7.97	Pm+Pb	49.80	5.25
	Middle	3406	0.29	0.44	-6.94	-0.40	-0.70	0.69	0.89	-0.04	-7.06	7.95	Pm	33.20	3.17
	Outside	3413	2.74	2.90	-5.98	-2.85	-0.95	0.94	5.82	-0.03	-6.13	11.96	Pm+Pb	49.80	3.16
6	Inside	3481	2.98	5.27	-0.79	-4.16	-1.00	0.88	8.63	-0.18	-0.99	9.62	Pm+Pb	49.80	4.18
	Middle	3483	-0.30	0.93	-3.66	-0.31	-1.03	0.91	1.32	-0.28	-4.06	5.38	Pm	33.20	5.17
	Outside	3485	-2.93	-2.53	-6.07	2.82	-1.07	0.95	0.10	-4.36	-7.27	7.37	Pm+Pb	49.80	5.76
7	Inside	3650	0.35	14.43	3.31	-0.04	-1.76	-0.02	14.71	3.04	0.35	14.36	Pm+Pb	49.80	2.47
	Middle	3649	0.36	0.40	-1.03	-0.03	-1.48	-0.02	1.33	0.36	-1.96	3.29	Pm	33.20	9.09
	Outside	3648	0.36	-9.44	-4.11	-0.03	-1.28	-0.02	0.36	-3.82	-9.74	10.10	Pm+Pb	49.80	3.93
8	Inside	20609	2.36	4.59	3.56	3.37	-1.34	-1.23	7.79	2.81	-0.09	7.88	Pm+Pb	49.80	5.32
	Middle	20611	-0.25	1.12	2.15	0.33	-1.10	-1.01	3.17	0.47	-0.62	3.79	Pm	33.20	7.77
	Outside	20613	-2.28	-1.58	1.14	-2.07	-0.90	-0.81	1.43	0.16	-4.30	5.73	Pm+Pb	49.80	7.70
9	Inside	20527	-3.08	-2.98	4.85	-2.95	-1.07	-1.07	5.05	-0.08	-6.19	11.25	Pm+Pb	49.80	3.43
	Middle	20534	0.55	0.67	7.52	0.68	-0.85	-0.85	7.75	1.07	-0.07	7.82	Pm	33.20	3.25
	Outside	20541	4.17	4.32	10.20	4.30	-0.63	-0.63	10.59	8.16	-0.05	10.65	Pm+Pb	49.80	3.68
10	Inside	29173	1.73	0.25	12.75	1.03	-0.48	-0.49	12.79	2.22	-0.28	13.07	Pm+Pb	49.80	2.81
	Middle	29175	1.18	-0.03	13.08	0.60	-0.34	-0.35	13.10	1.40	-0.27	13.37	Pm	33.20	1.48
	Outside	29177	0.85	-0.12	13.53	0.34	-0.22	-0.22	13.54	0.95	-0.23	13.77	Pm+Pb	49.80	2.62
11	Inside	29342	6.55	-0.18	15.37	0.68	-0.03	-0.09	15.37	6.62	-0.25	15.62	Pm+Pb	49.80	2.19
	Middle	29341	1.04	-0.04	14.62	0.10	-0.02	-0.06	14.62	1.04	-0.05	14.67	Pm	33.20	1.26
	Outside	29340	-2.87	0.09	14.35	-0.32	-0.02	-0.04	14.35	0.12	-2.90	17.25	Pm+Pb	49.80	1.89

TABLE 2.10.6-106 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= 200°F)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	12676	0.27	-0.47	-12.76	-0.15	0.01	0.00	0.30	-0.50	-12.76	13.06	Pm+Pb	49.80	2.81
	Middle	12675	0.69	-0.27	-13.12	-0.14	0.00	0.00	0.70	-0.29	-13.12	13.83	Pm	33.20	1.40
	Outside	12674	0.93	-0.10	-13.57	-0.12	0.00	0.00	0.95	-0.12	-13.57	14.52	Pm+Pb	49.80	2.43
4	Inside	12507	-0.63	-1.02	-12.18	0.71	0.00	0.01	-0.09	-1.56	-12.18	12.09	Pm+Pb	49.80	3.12
	Middle	12509	0.57	0.00	-11.95	-0.35	-0.01	0.01	0.74	-0.17	-11.95	12.69	Pm	33.20	1.62
	Outside	12511	1.63	0.93	-11.79	-1.29	-0.01	0.01	2.62	-0.06	-11.79	14.41	Pm+Pb	49.80	2.46
5	Inside	3861	-2.08	-1.90	-8.75	2.00	0.00	0.00	0.02	-3.99	-8.75	8.76	Pm+Pb	49.80	4.68
	Middle	3868	0.27	0.46	-7.84	-0.37	-0.01	0.01	0.75	-0.02	-7.84	8.59	Pm	33.20	2.86
	Outside	3875	2.62	2.82	-6.93	-2.75	-0.02	0.02	5.47	-0.03	-6.93	12.41	Pm+Pb	49.80	3.01
6	Inside	3943	3.36	5.81	-0.95	-4.60	0.00	0.00	9.35	-0.17	-0.95	10.30	Pm+Pb	49.80	3.84
	Middle	3945	-0.32	0.95	-4.14	-0.29	-0.01	0.01	1.01	-0.38	-4.14	5.15	Pm	33.20	5.44
	Outside	3947	-3.29	-2.94	-6.83	3.21	-0.01	0.01	0.11	-6.33	-6.83	6.93	Pm+Pb	49.80	6.18
7	Inside	4112	0.39	15.63	3.51	-0.04	0.00	0.00	15.63	3.51	0.39	15.25	Pm+Pb	49.80	2.27
	Middle	4111	0.39	0.35	-1.18	-0.04	0.00	0.00	0.41	0.33	-1.18	1.59	Pm	33.20	19.91
	Outside	4110	0.39	-10.37	-4.52	-0.03	0.00	0.00	0.39	-4.52	-10.37	10.76	Pm+Pb	49.80	3.63
8	Inside	21071	2.71	5.10	4.00	3.78	0.00	0.00	7.86	4.00	-0.06	7.92	Pm+Pb	49.80	5.29
	Middle	21073	-0.27	1.15	2.38	0.32	0.01	0.01	2.38	1.22	-0.34	2.72	Pm	33.20	11.20
	Outside	21075	-2.61	-1.94	1.21	-2.44	0.01	0.01	1.21	0.19	-4.73	5.95	Pm+Pb	49.80	7.37
9	Inside	20989	-3.13	-2.98	5.69	-2.98	0.00	0.00	5.69	-0.08	-6.04	11.72	Pm+Pb	49.80	3.25
	Middle	20996	0.52	0.70	8.44	0.68	0.02	0.02	8.44	1.29	-0.07	8.51	Pm	33.20	2.90
	Outside	21003	4.17	4.37	11.19	4.32	0.03	0.03	11.19	8.60	-0.05	11.24	Pm+Pb	49.80	3.43
10	Inside	29635	1.21	-0.12	14.02	0.61	0.00	0.00	14.02	1.45	-0.36	14.38	Pm+Pb	49.80	2.46
	Middle	29637	1.16	-0.01	14.68	0.62	0.01	0.01	14.68	1.42	-0.27	14.96	Pm	33.20	1.22
	Outside	29639	1.24	0.22	15.42	0.73	0.01	0.02	15.42	1.62	-0.16	15.58	Pm+Pb	49.80	2.20
11	Inside	29804	5.43	-0.28	16.68	0.59	-0.01	0.00	16.68	5.49	-0.34	17.02	Pm+Pb	49.80	1.93
	Middle	29803	1.10	-0.10	16.42	0.12	0.00	0.00	16.42	1.11	-0.11	16.53	Pm	33.20	1.01
	Outside	29802	-1.99	0.04	16.50	-0.22	0.00	0.00	16.50	0.07	-2.01	18.51	Pm+Pb	49.80	1.69

TABLE 2.10.6-107 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T=-20°F)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	10030	3.63	0.14	3.25	-0.44	-0.07	0.24	3.80	3.13	0.09	3.71	Pm+Pb	50.00	12.48
	Middle	10029	-0.42	0.35	2.46	-0.03	-0.11	0.13	2.47	0.35	-0.42	2.90	Pm	33.30	10.50
	Outside	10028	-3.51	0.34	1.53	0.28	-0.07	0.07	1.54	0.35	-3.54	5.07	Pm+Pb	50.00	8.86
4	Inside	9981	1.81	0.94	4.49	-1.26	-0.91	1.38	5.48	1.72	0.04	5.44	Pm+Pb	50.00	8.19
	Middle	9983	0.19	-0.16	3.21	-0.08	-0.69	0.88	3.58	-0.01	-0.32	3.90	Pm	33.30	7.53
	Outside	9985	-1.25	-1.12	1.75	1.04	-0.51	0.54	1.89	-0.14	-2.36	4.24	Pm+Pb	50.00	10.78
5	Inside	1383	0.40	-0.05	6.60	-0.08	-0.75	1.54	7.04	0.08	-0.17	7.21	Pm+Pb	50.00	5.94
	Middle	1390	1.07	0.74	5.53	-0.96	-1.02	1.54	6.30	1.13	-0.08	6.38	Pm	33.30	4.22
	Outside	1397	1.79	1.57	4.44	-1.83	-1.24	1.64	6.08	1.89	-0.17	6.25	Pm+Pb	50.00	7.00
6	Inside	1417	-1.18	-0.69	5.87	-0.90	-0.90	1.06	6.18	-0.29	-1.88	8.06	Pm+Pb	50.00	5.20
	Middle	1419	-0.16	0.24	6.20	-1.09	-1.65	1.64	7.10	0.25	-1.07	8.18	Pm	33.30	3.07
	Outside	1421	0.58	1.00	6.43	-1.08	-2.47	2.24	8.19	0.14	-0.32	8.52	Pm+Pb	50.00	4.87
7	Inside	1466	0.01	1.25	6.87	-0.18	-2.13	0.00	7.59	0.58	-0.04	7.63	Pm+Pb	50.00	5.55
	Middle	1465	0.14	0.65	6.22	-0.07	-1.87	-0.08	6.79	0.20	0.02	6.77	Pm	33.30	3.92
	Outside	1464	0.29	0.40	5.83	0.09	-1.70	-0.10	6.32	0.30	-0.10	6.42	Pm+Pb	50.00	6.79
8	Inside	18545	-1.38	-1.18	7.81	0.16	-1.83	-1.00	8.27	-1.47	-1.56	9.83	Pm+Pb	50.00	4.09
	Middle	18547	-0.40	-0.36	6.63	0.40	-1.20	-0.79	6.92	-0.27	-0.79	7.72	Pm	33.30	3.31
	Outside	18549	0.33	0.35	5.47	0.54	-0.74	-0.47	5.63	0.73	-0.21	5.84	Pm+Pb	50.00	7.57
9	Inside	18511	0.89	0.39	11.84	-0.16	-0.68	0.60	11.91	0.88	0.32	11.59	Pm+Pb	50.00	3.31
	Middle	18518	-0.23	-0.63	7.19	-1.01	-0.76	-0.26	7.27	0.59	-1.52	8.79	Pm	33.30	2.79
	Outside	18525	-1.07	-1.47	3.00	-1.85	-1.12	-0.89	3.32	0.58	-3.45	6.77	Pm+Pb	50.00	6.39
10	Inside	27109	-1.34	0.00	8.33	-0.87	-1.48	-1.19	8.69	0.36	-2.06	10.75	Pm+Pb	50.00	3.65
	Middle	27111	-2.05	-0.96	5.75	-1.85	-0.24	-0.19	5.76	0.42	-3.44	9.21	Pm	33.30	2.62
	Outside	27113	-2.64	-1.55	3.40	-2.38	0.62	0.71	3.51	0.34	-4.64	8.16	Pm+Pb	50.00	5.13
11	Inside	27158	-4.69	-0.84	6.17	-0.69	-0.57	-0.23	6.22	-0.76	-4.82	11.03	Pm+Pb	50.00	3.53
	Middle	27157	-2.63	-1.60	4.92	-0.58	-0.38	-0.02	4.94	-1.36	-2.89	7.83	Pm	33.30	3.25
	Outside	27156	-2.12	-2.23	3.26	-0.55	-0.27	0.18	3.28	-1.64	-2.73	6.01	Pm+Pb	50.00	7.33

TABLE 2.10.6-108 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	11617	7.72	0.03	2.24	-0.77	-0.04	0.12	7.80	2.24	-0.05	7.85	Pm+Pb	50.00	5.37
	Middle	11616	0.47	0.12	-0.31	-0.03	-0.02	0.10	0.48	0.12	-0.32	0.81	Pm	33.30	40.26
	Outside	11615	-4.76	0.17	-2.30	0.49	-0.04	0.08	0.22	-2.30	-4.82	5.03	Pm+Pb	50.00	8.93
4	Inside	11529	2.65	1.35	1.53	-1.96	-0.57	0.59	4.30	1.30	-0.07	4.38	Pm+Pb	50.00	10.42
	Middle	11531	0.62	-0.19	0.21	-0.40	-0.60	0.54	1.30	-0.04	-0.63	1.92	Pm	33.30	16.32
	Outside	11533	-0.95	-1.19	-0.71	0.84	-0.49	0.71	-0.06	-0.44	-2.35	2.29	Pm+Pb	50.00	20.81
5	Inside	2748	-2.30	-2.35	1.09	2.30	-0.73	0.77	1.28	-0.03	-4.81	6.10	Pm+Pb	50.00	7.20
	Middle	2755	0.49	0.44	3.25	-0.44	-1.20	1.24	4.17	0.02	-0.01	4.18	Pm	33.30	6.97
	Outside	2762	3.29	3.24	5.43	-3.16	-1.70	1.69	8.37	3.49	0.10	8.27	Pm+Pb	50.00	5.04
6	Inside	2965	0.74	2.05	6.09	-1.47	-2.11	1.70	7.66	1.45	-0.23	7.89	Pm+Pb	50.00	5.34
	Middle	2967	-0.16	0.80	5.72	-0.50	-2.37	1.94	7.21	-0.06	-0.80	8.01	Pm	33.30	3.16
	Outside	2969	-0.66	-0.17	5.59	0.22	-2.52	2.23	7.07	-0.20	-2.11	9.18	Pm+Pb	50.00	4.45
7	Inside	3053	-0.03	6.67	8.37	-0.05	-4.46	-0.16	12.07	2.98	-0.04	12.11	Pm+Pb	50.00	3.13
	Middle	3052	0.07	0.74	6.84	-0.06	-3.45	-0.14	8.40	0.08	-0.83	9.23	Pm	33.30	2.61
	Outside	3051	0.12	-3.50	5.76	-0.07	-2.75	-0.15	6.52	0.12	-4.26	10.78	Pm+Pb	50.00	3.64
8	Inside	20093	0.16	1.00	7.45	0.75	-3.84	-3.65	10.52	-0.13	-1.78	12.30	Pm+Pb	50.00	3.07
	Middle	20095	-0.15	0.52	7.40	0.34	-2.58	-2.39	8.88	-0.09	-1.02	9.91	Pm	33.30	2.36
	Outside	20097	-0.28	0.12	7.40	0.06	-1.40	-1.24	7.85	-0.07	-0.54	8.38	Pm+Pb	50.00	4.96
9	Inside	19876	-1.25	-1.60	8.03	-1.25	-3.31	-2.81	9.56	-0.16	-4.22	13.78	Pm+Pb	50.00	2.63
	Middle	19883	0.01	-0.33	8.31	-0.07	-2.40	-1.95	9.31	-0.04	-1.28	10.60	Pm	33.30	2.14
	Outside	19890	1.25	0.94	8.64	1.11	-1.43	-1.12	9.12	1.76	-0.05	9.16	Pm+Pb	50.00	4.46
10	Inside	28657	0.66	0.42	8.91	0.63	-0.46	-0.28	8.95	1.15	-0.10	9.05	Pm+Pb	50.00	4.52
	Middle	28659	-0.28	-0.33	8.94	-0.13	-1.65	-1.51	9.45	-0.17	-0.95	10.39	Pm	33.30	2.20
	Outside	28661	-1.23	-1.20	8.83	-0.70	-2.66	-2.71	10.03	-0.52	-3.12	13.15	Pm+Pb	50.00	2.80
11	Inside	28745	0.95	-0.29	8.70	0.11	-0.05	-0.11	8.70	0.96	-0.30	9.01	Pm+Pb	50.00	4.55
	Middle	28744	-0.09	-0.08	8.78	0.00	-0.08	-0.36	8.80	-0.08	-0.11	8.90	Pm	33.30	2.74
	Outside	28743	-0.78	0.24	9.28	0.01	-0.20	-0.44	9.31	0.23	-0.80	10.10	Pm+Pb	50.00	3.95

TABLE 2.10.6-109 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	11752	3.69	-0.25	-3.31	-0.44	0.03	0.04	3.74	-0.30	-3.31	7.05	Pm+Pb	50.00	6.09
	Middle	11751	0.58	-0.11	-4.64	-0.09	0.03	0.07	0.60	-0.12	-4.65	5.24	Pm	33.30	5.35
	Outside	11750	-1.63	0.02	-5.73	0.16	0.02	0.09	0.03	-1.64	-5.73	5.76	Pm+Pb	50.00	7.68
4	Inside	11583	0.76	-0.11	-3.35	-0.41	-0.09	0.15	0.93	-0.27	-3.35	4.28	Pm+Pb	50.00	10.67
	Middle	11585	0.67	-0.08	-3.72	-0.34	-0.33	0.39	0.85	-0.20	-3.78	4.63	Pm	33.30	6.20
	Outside	11587	0.69	0.03	-4.02	-0.34	-0.55	0.62	0.96	-0.10	-4.16	5.12	Pm+Pb	50.00	8.77
5	Inside	2937	-2.45	-2.33	-1.63	2.18	-0.61	0.61	-0.21	-1.40	-4.81	4.60	Pm+Pb	50.00	9.88
	Middle	2944	0.25	0.38	-0.47	-0.46	-0.96	0.96	1.65	-0.15	-1.34	2.99	Pm	33.30	10.15
	Outside	2951	2.94	3.07	0.70	-3.09	-1.32	1.31	6.67	0.12	-0.09	6.76	Pm+Pb	50.00	6.40
6	Inside	3019	2.55	4.68	4.95	-3.67	-1.47	1.28	8.50	3.89	-0.21	8.71	Pm+Pb	50.00	4.74
	Middle	3021	-0.28	0.91	2.46	-0.32	-1.49	1.31	3.78	0.18	-0.86	4.64	Pm	33.30	6.17
	Outside	3023	-2.54	-2.08	0.37	2.38	-1.54	1.36	1.13	0.05	-5.43	6.56	Pm+Pb	50.00	6.63
7	Inside	3188	0.27	13.15	8.64	-0.04	-2.59	-0.02	14.33	7.47	0.27	14.06	Pm+Pb	50.00	2.56
	Middle	3187	0.30	0.44	4.74	-0.03	-2.18	-0.02	5.65	0.30	-0.47	6.13	Pm	33.30	4.43
	Outside	3186	0.32	-8.47	1.97	-0.03	-1.88	-0.02	2.29	0.32	-8.79	11.09	Pm+Pb	50.00	3.51
8	Inside	20147	2.00	4.06	8.62	2.95	-1.98	-1.83	10.34	4.45	-0.11	10.46	Pm+Pb	50.00	3.78
	Middle	20149	-0.22	1.08	7.42	0.35	-1.66	-1.52	8.12	0.67	-0.51	8.64	Pm	33.30	2.86
	Outside	20151	-1.93	-1.21	6.58	-1.70	-1.37	-1.25	6.92	0.15	-3.64	10.56	Pm+Pb	50.00	3.73
9	Inside	20065	-3.03	-2.98	9.20	-2.93	-1.63	-1.63	9.54	-0.08	-6.27	15.82	Pm+Pb	50.00	2.16
	Middle	20072	0.58	0.65	11.82	0.68	-1.32	-1.32	12.15	0.98	-0.07	12.21	Pm	33.30	1.73
	Outside	20079	4.18	4.28	14.43	4.29	-1.01	-1.01	14.76	8.19	-0.05	14.81	Pm+Pb	50.00	2.38
10	Inside	28711	2.31	0.66	16.44	1.50	-0.74	-0.77	16.52	3.12	-0.23	16.75	Pm+Pb	50.00	1.98
	Middle	28713	1.21	-0.04	16.41	0.59	-0.54	-0.56	16.45	1.41	-0.28	16.72	Pm	33.30	0.99
	Outside	28715	0.44	-0.50	16.53	-0.07	-0.35	-0.36	16.55	0.44	-0.51	17.06	Pm+Pb	50.00	1.93
11	Inside	28880	7.84	-0.11	18.95	0.80	-0.04	-0.14	18.95	7.92	-0.19	19.15	Pm+Pb	50.00	1.61
	Middle	28879	1.00	0.01	17.69	0.08	-0.04	-0.10	17.69	1.01	0.01	17.69	Pm	33.30	0.88
	Outside	28878	-3.84	0.13	17.00	-0.42	-0.04	-0.06	17.00	0.17	-3.89	20.88	Pm+Pb	50.00	1.39

TABLE 2.10.6-110 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	12214	1.80	-0.36	-5.44	-0.28	0.02	0.03	1.84	-0.39	-5.44	7.28	Pm+Pb	50.00	5.87
	Middle	12213	0.65	-0.19	-6.24	-0.11	0.01	0.05	0.66	-0.20	-6.24	6.90	Pm	33.30	3.83
	Outside	12212	-0.20	-0.05	-6.97	0.01	0.01	0.07	-0.05	-0.20	-6.97	6.92	Pm+Pb	50.00	6.22
4	Inside	12045	0.00	-0.60	-5.16	0.20	-0.09	0.14	0.06	-0.66	-5.17	5.22	Pm+Pb	50.00	8.57
	Middle	12047	0.61	-0.03	-5.20	-0.35	-0.25	0.29	0.79	-0.18	-5.22	6.01	Pm	33.30	4.54
	Outside	12049	1.20	0.53	-5.25	-0.86	-0.40	0.45	1.84	-0.06	-5.30	7.14	Pm+Pb	50.00	6.00
5	Inside	3399	-2.15	-2.00	-2.49	2.06	-0.45	0.43	-0.02	-2.28	-4.35	4.33	Pm+Pb	50.00	10.55
	Middle	3406	0.29	0.44	-1.54	-0.40	-0.70	0.69	1.13	-0.03	-1.90	3.03	Pm	33.30	10.00
	Outside	3413	2.74	2.90	-0.58	-2.85	-0.95	0.94	5.94	-0.03	-0.86	6.80	Pm+Pb	50.00	6.35
6	Inside	3481	2.98	5.27	4.61	-4.16	-1.00	0.88	8.86	4.20	-0.20	9.06	Pm+Pb	50.00	4.52
	Middle	3483	-0.30	0.93	1.74	-0.31	-1.03	0.91	2.73	0.30	-0.65	3.38	Pm	33.30	8.85
	Outside	3485	-2.93	-2.53	-0.67	2.82	-1.07	0.95	0.14	-0.33	-5.94	6.08	Pm+Pb	50.00	7.22
7	Inside	3650	0.35	14.43	8.71	-0.04	-1.76	-0.02	14.93	8.21	0.35	14.59	Pm+Pb	50.00	2.43
	Middle	3649	0.36	0.40	4.37	-0.03	-1.48	-0.02	4.87	0.36	-0.10	4.97	Pm	33.30	5.70
	Outside	3648	0.36	-9.44	1.29	-0.03	-1.28	-0.02	1.44	0.36	-9.59	11.03	Pm+Pb	50.00	3.53
8	Inside	20609	2.36	4.59	8.96	3.37	-1.34	-1.23	10.05	5.94	-0.08	10.13	Pm+Pb	50.00	3.94
	Middle	20611	-0.25	1.12	7.55	0.33	-1.10	-1.01	7.87	0.95	-0.40	8.27	Pm	33.30	3.02
	Outside	20613	-2.28	-1.58	6.54	-2.07	-0.90	-0.81	6.68	0.17	-4.17	10.85	Pm+Pb	50.00	3.61
9	Inside	20527	-3.08	-2.98	10.25	-2.95	-1.07	-1.07	10.39	-0.08	-6.12	16.51	Pm+Pb	50.00	2.03
	Middle	20534	0.55	0.67	12.92	0.68	-0.85	-0.85	13.05	1.17	-0.07	13.12	Pm	33.30	1.54
	Outside	20541	4.17	4.32	15.60	4.30	-0.63	-0.63	15.71	8.44	-0.05	15.77	Pm+Pb	50.00	2.17
10	Inside	29173	1.73	0.25	18.15	1.03	-0.48	-0.49	18.18	2.23	-0.28	18.46	Pm+Pb	50.00	1.71
	Middle	29175	1.18	-0.03	18.48	0.60	-0.34	-0.35	18.49	1.41	-0.27	18.76	Pm	33.30	0.77
	Outside	29177	0.85	-0.12	18.93	0.34	-0.22	-0.22	18.94	0.96	-0.23	19.17	Pm+Pb	50.00	1.61
11	Inside	29342	6.55	-0.18	20.77	0.68	-0.03	-0.09	20.77	6.62	-0.25	21.02	Pm+Pb	50.00	1.38
	Middle	29341	1.04	-0.04	20.02	0.10	-0.02	-0.06	20.02	1.04	-0.05	20.07	Pm	33.30	0.66
	Outside	29340	-2.87	0.09	19.75	-0.32	-0.02	-0.04	19.75	0.12	-2.90	22.65	Pm+Pb	50.00	1.21

TABLE 2.10.6-111 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT SIDE DROP (T= -20°F)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	12676	0.27	-0.47	-7.36	-0.15	0.01	0.00	0.30	-0.50	-7.36	7.66	Pm+Pb	50.00	5.53
	Middle	12675	0.69	-0.27	-7.72	-0.14	0.00	0.00	0.70	-0.29	-7.72	8.43	Pm	33.30	2.95
	Outside	12674	0.93	-0.10	-8.17	-0.12	0.00	0.00	0.95	-0.12	-8.17	9.12	Pm+Pb	50.00	4.48
4	Inside	12507	-0.63	-1.02	-6.78	0.71	0.00	0.01	-0.09	-1.56	-6.78	6.69	Pm+Pb	50.00	6.47
	Middle	12509	0.57	0.00	-6.55	-0.35	-0.01	0.01	0.74	-0.17	-6.55	7.29	Pm	33.30	3.57
	Outside	12511	1.63	0.93	-6.39	-1.29	-0.01	0.01	2.62	-0.06	-6.39	9.01	Pm+Pb	50.00	4.55
5	Inside	3861	-2.08	-1.90	-3.35	2.00	0.00	0.00	0.02	-3.35	-3.99	4.00	Pm+Pb	50.00	11.49
	Middle	3868	0.27	0.46	-2.44	-0.37	-0.01	0.01	0.75	-0.02	-2.44	3.19	Pm	33.30	9.43
	Outside	3875	2.62	2.82	-1.53	-2.75	-0.02	0.02	5.47	-0.03	-1.53	7.01	Pm+Pb	50.00	6.14
6	Inside	3943	3.36	5.81	4.45	-4.60	0.00	0.00	9.35	4.45	-0.17	9.52	Pm+Pb	50.00	4.25
	Middle	3945	-0.32	0.95	1.26	-0.29	-0.01	0.01	1.26	1.01	-0.38	1.64	Pm	33.30	19.25
	Outside	3947	-3.29	-2.94	-1.43	3.21	-0.01	0.01	0.11	-1.43	-6.33	6.44	Pm+Pb	50.00	6.77
7	Inside	4112	0.39	15.63	8.91	-0.04	0.00	0.00	15.63	8.91	0.39	15.25	Pm+Pb	50.00	2.28
	Middle	4111	0.39	0.35	4.22	-0.04	0.00	0.00	4.22	0.41	0.33	3.90	Pm	33.30	7.55
	Outside	4110	0.39	-10.37	0.88	-0.03	0.00	0.00	0.88	0.39	-10.37	11.25	Pm+Pb	50.00	3.45
8	Inside	21071	2.71	5.10	9.40	3.78	0.00	0.00	9.40	7.86	-0.06	9.46	Pm+Pb	50.00	4.29
	Middle	21073	-0.27	1.15	7.78	0.32	0.01	0.01	7.78	1.22	-0.34	8.12	Pm	33.30	3.10
	Outside	21075	-2.61	-1.94	6.61	-2.44	0.01	0.01	6.61	0.19	-4.73	11.35	Pm+Pb	50.00	3.41
9	Inside	20989	-3.13	-2.98	11.09	-2.98	0.00	0.00	11.09	-0.08	-6.04	17.12	Pm+Pb	50.00	1.92
	Middle	20996	0.52	0.70	13.84	0.68	0.02	0.02	13.84	1.29	-0.07	13.91	Pm	33.30	1.39
	Outside	21003	4.17	4.37	16.59	4.32	0.03	0.03	16.59	8.60	-0.05	16.64	Pm+Pb	50.00	2.00
10	Inside	29635	1.21	-0.12	19.42	0.61	0.00	0.00	19.42	1.45	-0.36	19.78	Pm+Pb	50.00	1.53
	Middle	29637	1.16	-0.01	20.08	0.62	0.01	0.01	20.08	1.42	-0.27	20.36	Pm	33.30	0.64
	Outside	29639	1.24	0.22	20.82	0.73	0.01	0.02	20.82	1.62	-0.16	20.98	Pm+Pb	50.00	1.38
11	Inside	29804	5.43	-0.28	22.08	0.59	-0.01	0.00	22.08	5.49	-0.34	22.42	Pm+Pb	50.00	1.23
	Middle	29803	1.10	-0.10	21.82	0.12	0.00	0.00	21.82	1.11	-0.11	21.93	Pm	33.30	0.52
	Outside	29802	-1.99	0.04	21.90	-0.22	0.00	0.00	21.90	0.07	-2.01	23.91	Pm+Pb	50.00	1.09

TABLE 2.10.6-112 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	1383	0.81	0.75	4.29	0.27	1.18	-0.08	4.64	0.95	0.25	4.39	Pm+Pb	49.80	10.34
	Middle	1390	1.22	0.30	1.23	0.09	0.63	0.12	1.60	1.17	-0.02	1.63	Pm	33.20	19.43
	Outside	1397	1.82	0.03	-1.68	0.07	0.39	0.63	1.94	0.09	-1.86	3.80	Pm+Pb	49.80	12.10
2	Inside	1417	1.33	-0.05	2.26	-0.13	0.50	-0.27	2.43	1.26	-0.15	2.59	Pm+Pb	49.80	18.26
	Middle	1419	-0.05	-0.11	0.30	0.02	0.13	0.30	0.50	-0.11	-0.24	0.75	Pm	33.20	43.54
	Outside	1421	-1.27	-0.08	-1.63	0.13	-0.07	0.88	-0.07	-0.56	-2.36	2.29	Pm+Pb	49.80	20.71
3	Inside	1466	0.51	0.46	0.69	-0.62	0.02	0.35	1.22	0.65	-0.21	1.44	Pm+Pb	49.80	33.66
	Middle	1465	-0.13	-0.16	-0.31	0.16	0.00	0.44	0.27	-0.18	-0.68	0.95	Pm	33.20	33.89
	Outside	1464	-0.61	-0.59	-1.20	0.72	0.06	0.60	0.27	-0.97	-1.70	1.97	Pm+Pb	49.80	24.23
4	Inside	9981	-0.05	1.11	2.34	-0.17	-0.67	0.51	2.74	0.82	-0.15	2.89	Pm+Pb	49.80	16.22
	Middle	9983	-0.11	-0.19	0.62	-0.02	-0.29	0.18	0.75	-0.14	-0.29	1.04	Pm	33.20	30.84
	Outside	9985	-0.08	-1.32	-1.06	0.11	0.13	-0.01	-0.07	-1.01	-1.38	1.32	Pm+Pb	49.80	36.79
5	Inside	9947	0.32	0.49	4.07	-0.04	-0.58	0.92	4.37	0.43	0.09	4.28	Pm+Pb	49.80	10.63
	Middle	9954	0.08	0.74	1.63	-0.03	-0.62	0.48	2.05	0.49	-0.09	2.14	Pm	33.20	14.51
	Outside	9961	-0.06	1.10	-0.73	-0.01	-0.69	0.26	1.33	0.00	-1.02	2.35	Pm+Pb	49.80	20.15
6	Inside	27109	-0.06	0.62	2.72	0.04	-0.45	0.46	2.89	0.55	-0.15	3.04	Pm+Pb	49.80	15.41
	Middle	27111	-0.07	-0.54	1.05	-0.05	-0.60	0.14	1.27	-0.09	-0.74	2.01	Pm	33.20	15.52
	Outside	27113	-0.02	-1.56	-0.55	-0.14	-0.84	-0.06	0.00	-0.08	-2.04	2.04	Pm+Pb	49.80	23.39
7	Inside	18594	-0.37	-0.30	1.02	-0.04	-0.43	0.10	1.15	-0.37	-0.43	1.58	Pm+Pb	49.80	30.47
	Middle	18593	-0.42	-0.41	0.05	-0.10	-0.41	0.17	0.35	-0.47	-0.65	0.99	Pm	33.20	32.37
	Outside	18592	-0.47	-0.57	-0.87	-0.21	-0.46	0.30	0.02	-0.70	-1.23	1.25	Pm+Pb	49.80	38.97
8	Inside	18545	-0.06	-0.44	2.47	-0.18	-0.45	0.26	2.57	-0.05	-0.55	3.12	Pm+Pb	49.80	14.98
	Middle	18547	-0.76	-0.24	0.50	-0.20	-0.11	0.05	0.52	-0.20	-0.82	1.35	Pm	33.20	23.63
	Outside	18549	-1.29	-0.08	-1.45	-0.22	-0.03	-0.04	-0.04	-1.32	-1.46	1.42	Pm+Pb	49.80	34.08
9	Inside	18511	1.03	0.52	5.14	-0.22	-0.86	-0.12	5.29	1.11	0.29	5.00	Pm+Pb	49.80	8.95
	Middle	18518	-0.22	0.34	1.30	0.05	-0.32	0.05	1.40	0.25	-0.23	1.63	Pm	33.20	19.31
	Outside	18525	-1.30	0.33	-2.32	0.12	-0.10	0.49	0.34	-1.10	-2.52	2.87	Pm+Pb	49.80	16.36

TABLE 2.10.6-113 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	2748	-4.40	-0.35	-3.48	-0.14	0.00	0.02	-0.34	-3.48	-4.41	4.06	Pm+Pb	49.80	11.25
	Middle	2755	0.50	-0.21	-1.52	-0.14	0.02	0.05	0.53	-0.24	-1.52	2.05	Pm	33.20	15.22
	Outside	2762	5.42	0.06	0.61	-0.17	0.00	0.11	5.43	0.61	0.05	5.38	Pm+Pb	49.80	8.26
2	Inside	2965	2.42	0.00	-0.99	-0.49	-0.02	-0.13	2.52	-0.09	-0.99	3.52	Pm+Pb	49.80	13.16
	Middle	2967	0.40	-0.16	-1.67	-0.34	-0.06	0.36	0.61	-0.31	-1.73	2.35	Pm	33.20	13.14
	Outside	2969	-0.95	-0.08	-1.91	-0.14	0.05	0.77	-0.05	-0.54	-2.34	2.29	Pm+Pb	49.80	20.75
3	Inside	3053	2.74	2.76	0.12	-2.85	-0.20	0.19	5.61	0.11	-0.10	5.72	Pm+Pb	49.80	7.71
	Middle	3052	0.24	0.25	-1.50	-0.21	-0.30	0.34	0.56	0.04	-1.60	2.15	Pm	33.20	14.41
	Outside	3051	-1.66	-1.66	-3.04	1.70	-0.43	0.47	0.04	-2.55	-3.86	3.90	Pm+Pb	49.80	11.78
4	Inside	11529	0.01	2.62	-0.54	-0.50	-0.64	0.00	2.84	-0.06	-0.68	3.52	Pm+Pb	49.80	13.15
	Middle	11531	-0.16	0.40	-1.14	-0.34	-0.56	-0.03	0.70	-0.26	-1.34	2.03	Pm	33.20	15.32
	Outside	11533	-0.14	-1.17	-1.34	-0.13	-0.52	0.11	-0.09	-0.78	-1.78	1.69	Pm+Pb	49.80	28.42
5	Inside	11312	-0.21	-3.13	-2.24	0.02	-0.78	-0.02	-0.21	-1.78	-3.58	3.37	Pm+Pb	49.80	13.79
	Middle	11319	-0.14	0.48	-0.44	0.02	-0.91	-0.01	1.05	-0.14	-1.00	2.04	Pm	33.20	15.26
	Outside	11326	0.07	4.14	1.54	0.02	-1.04	-0.02	4.50	1.18	0.07	4.43	Pm+Pb	49.80	10.24
6	Inside	28657	0.03	3.11	0.58	0.50	-1.16	-0.12	3.64	0.15	-0.07	3.70	Pm+Pb	49.80	12.44
	Middle	28659	-0.20	0.35	0.05	0.31	-1.17	-0.14	1.44	-0.25	-1.00	2.44	Pm	33.20	12.59
	Outside	28661	-0.23	-1.68	-0.08	0.10	-1.15	0.01	0.53	-0.23	-2.28	2.81	Pm+Pb	49.80	16.74
7	Inside	20181	2.19	2.35	1.26	2.42	-1.43	-1.48	5.66	0.31	-0.17	5.82	Pm+Pb	49.80	7.55
	Middle	20180	0.14	0.28	0.07	0.21	-0.65	-0.65	1.18	0.01	-0.70	1.88	Pm	33.20	16.65
	Outside	20179	-1.41	-1.29	-1.07	-1.40	-0.02	0.00	0.05	-1.07	-2.75	2.80	Pm+Pb	49.80	16.75
8	Inside	20093	1.20	-0.08	0.46	0.32	-0.11	-2.31	3.20	-0.10	-1.52	4.72	Pm+Pb	49.80	9.55
	Middle	20095	0.23	-0.13	0.02	0.24	-0.08	-0.30	0.53	-0.14	-0.27	0.80	Pm	33.20	40.52
	Outside	20097	-0.39	-0.10	-0.18	0.13	-0.02	1.56	1.29	-0.09	-1.86	3.14	Pm+Pb	49.80	14.85
9	Inside	19876	-3.21	-0.30	-0.50	0.10	-0.35	-0.17	-0.02	-0.77	-3.22	3.20	Pm+Pb	49.80	14.57
	Middle	19883	0.12	-0.20	0.13	0.10	-0.38	0.00	0.39	0.13	-0.46	0.84	Pm	33.20	38.39
	Outside	19890	3.49	0.01	0.93	0.09	-0.31	0.16	3.50	1.01	-0.09	3.59	Pm+Pb	49.80	12.86

TABLE 2.10.6-114 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	2937	-4.36	-0.05	-3.75	-0.03	0.00	0.01	-0.05	-3.75	-4.36	4.32	Pm+Pb	49.80	10.54
	Middle	2944	0.63	-0.04	-2.36	-0.03	0.00	0.01	0.63	-0.04	-2.36	2.98	Pm	33.20	10.13
	Outside	2951	5.61	-0.03	-0.96	-0.03	0.00	0.01	5.61	-0.03	-0.96	6.58	Pm+Pb	49.80	6.57
2	Inside	3019	1.90	-0.02	-1.94	-0.53	-0.01	0.17	2.04	-0.16	-1.95	3.99	Pm+Pb	49.80	11.48
	Middle	3021	0.54	0.00	-2.45	-0.40	-0.01	0.19	0.76	-0.21	-2.46	3.21	Pm	33.20	9.33
	Outside	3023	-0.43	0.04	-2.83	-0.29	-0.01	0.21	0.18	-0.55	-2.84	3.02	Pm+Pb	49.80	15.47
3	Inside	3188	2.69	2.82	-0.75	-2.89	-0.19	0.19	5.66	-0.14	-0.76	6.42	Pm+Pb	49.80	6.76
	Middle	3187	0.17	0.27	-2.34	-0.24	-0.19	0.19	0.50	-0.03	-2.37	2.86	Pm	33.20	10.60
	Outside	3186	-1.60	-1.52	-3.49	1.64	-0.20	0.20	0.08	-3.02	-3.67	3.75	Pm+Pb	49.80	12.29
4	Inside	11583	0.04	3.30	-0.95	-0.55	-0.32	0.01	3.41	-0.05	-0.98	4.39	Pm+Pb	49.80	10.35
	Middle	11585	0.04	0.64	-1.80	-0.35	-0.33	0.01	0.84	-0.11	-1.85	2.69	Pm	33.20	11.35
	Outside	11587	0.07	-1.42	-2.47	-0.20	-0.35	0.01	0.09	-1.34	-2.58	2.67	Pm+Pb	49.80	17.66
5	Inside	11501	-0.05	-1.73	-1.24	0.05	-0.39	0.00	-0.05	-1.02	-1.95	1.90	Pm+Pb	49.80	25.20
	Middle	11508	-0.04	0.93	-0.58	0.05	-0.38	0.00	1.02	-0.04	-0.67	1.69	Pm	33.20	18.62
	Outside	11515	-0.03	3.60	0.08	0.05	-0.36	0.00	3.63	0.04	-0.03	3.66	Pm+Pb	49.80	12.59
6	Inside	28711	0.15	6.67	2.45	0.83	-0.34	-0.01	6.80	2.42	0.04	6.76	Pm+Pb	49.80	6.37
	Middle	28713	0.12	0.77	0.57	0.43	-0.29	-0.01	1.11	0.46	-0.12	1.23	Pm	33.20	25.90
	Outside	28715	0.12	-3.97	-0.96	0.12	-0.24	-0.01	0.13	-0.94	-3.99	4.12	Pm+Pb	49.80	11.10
7	Inside	20316	4.25	4.65	3.58	4.43	-0.15	-0.14	8.89	3.57	0.01	8.88	Pm+Pb	49.80	4.61
	Middle	20315	0.17	0.48	1.24	0.22	-0.15	-0.13	1.29	0.55	0.05	1.24	Pm	33.20	25.80
	Outside	20314	-2.69	-2.45	-0.39	-2.75	-0.14	-0.13	0.18	-0.38	-5.33	5.51	Pm+Pb	49.80	8.04
8	Inside	20147	2.03	-0.02	1.74	0.78	0.00	-0.07	2.30	1.73	-0.28	2.58	Pm+Pb	49.80	18.30
	Middle	20149	0.73	0.00	1.62	0.62	0.00	-0.13	1.64	1.06	-0.36	2.00	Pm	33.20	15.61
	Outside	20151	-0.08	0.05	1.65	0.49	-0.01	-0.19	1.67	0.46	-0.52	2.19	Pm+Pb	49.80	21.71
9	Inside	20065	-7.99	-0.10	-1.46	0.06	0.01	-0.01	-0.10	-1.46	-7.99	7.89	Pm+Pb	49.80	5.31
	Middle	20072	0.93	-0.08	1.56	0.06	0.01	-0.01	1.56	0.93	-0.09	1.65	Pm	33.20	19.13
	Outside	20079	9.84	-0.06	4.59	0.06	0.01	-0.02	9.84	4.59	-0.06	9.90	Pm+Pb	49.80	4.03

TABLE 2.10.6-115 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3399	-4.42	-0.04	-3.91	-0.03	0.00	0.00	-0.04	-3.91	-4.42	4.38	Pm+Pb	49.80	10.37
	Middle	3406	0.63	-0.03	-2.51	-0.03	0.00	0.01	0.63	-0.03	-2.51	3.15	Pm	33.20	9.55
	Outside	3413	5.69	-0.03	-1.11	-0.03	0.00	0.01	5.69	-0.03	-1.11	6.80	Pm+Pb	49.80	6.33
2	Inside	3481	1.91	-0.03	-2.08	-0.54	-0.01	0.07	2.05	-0.17	-2.08	4.13	Pm+Pb	49.80	11.06
	Middle	3483	0.55	-0.01	-2.60	-0.40	-0.01	0.07	0.76	-0.22	-2.61	3.37	Pm	33.20	8.86
	Outside	3485	-0.42	0.03	-3.01	-0.30	-0.01	0.06	0.18	-0.57	-3.01	3.19	Pm+Pb	49.80	14.61
3	Inside	3650	2.76	2.90	-0.81	-2.96	-0.11	0.10	5.80	-0.13	-0.81	6.61	Pm+Pb	49.80	6.54
	Middle	3649	0.18	0.28	-2.45	-0.24	-0.07	0.06	0.48	-0.02	-2.45	2.93	Pm	33.20	10.32
	Outside	3648	-1.64	-1.56	-3.64	1.69	-0.05	0.04	0.08	-3.28	-3.65	3.73	Pm+Pb	49.80	12.34
4	Inside	12045	0.04	3.43	-0.97	-0.57	-0.19	0.01	3.53	-0.05	-0.98	4.50	Pm+Pb	49.80	10.06
	Middle	12047	0.05	0.65	-1.83	-0.36	-0.11	0.01	0.82	-0.12	-1.83	2.65	Pm	33.20	11.52
	Outside	12049	0.07	-1.52	-2.49	-0.20	-0.05	0.00	0.09	-1.54	-2.50	2.59	Pm+Pb	49.80	18.23
5	Inside	11963	-0.05	-1.80	-1.24	0.04	-0.16	0.00	-0.05	-1.20	-1.84	1.79	Pm+Pb	49.80	26.79
	Middle	11970	-0.04	0.93	-0.47	0.04	-0.11	0.00	0.94	-0.04	-0.48	1.42	Pm	33.20	22.31
	Outside	11977	-0.03	3.66	0.29	0.04	-0.06	0.00	3.66	0.29	-0.03	3.69	Pm+Pb	49.80	12.49
6	Inside	29173	0.14	6.24	2.52	0.80	0.01	0.01	6.35	2.52	0.03	6.31	Pm+Pb	49.80	6.89
	Middle	29175	0.11	0.75	0.83	0.43	-0.07	0.01	0.98	0.81	-0.10	1.08	Pm	33.20	29.65
	Outside	29177	0.11	-3.66	-0.52	0.13	-0.14	0.00	0.12	-0.52	-3.67	3.79	Pm+Pb	49.80	12.15
7	Inside	20778	4.06	4.42	3.68	4.24	0.09	0.09	8.48	3.68	0.00	8.48	Pm+Pb	49.80	4.87
	Middle	20777	0.17	0.45	1.46	0.22	-0.03	-0.03	1.46	0.57	0.05	1.41	Pm	33.20	22.48
	Outside	20776	-2.55	-2.34	-0.07	-2.61	-0.14	-0.13	0.17	-0.07	-5.07	5.24	Pm+Pb	49.80	8.51
8	Inside	20609	2.05	-0.02	1.98	0.74	0.01	0.16	2.35	1.91	-0.26	2.60	Pm+Pb	49.80	18.13
	Middle	20611	0.70	0.00	1.77	0.58	0.00	-0.03	1.77	1.03	-0.33	2.10	Pm	33.20	14.83
	Outside	20613	-0.18	0.05	1.71	0.46	0.00	-0.20	1.73	0.40	-0.55	2.28	Pm+Pb	49.80	20.81
9	Inside	20527	-7.47	-0.10	-0.98	0.06	0.02	0.01	-0.09	-0.98	-7.47	7.38	Pm+Pb	49.80	5.75
	Middle	20534	0.87	-0.07	1.74	0.06	0.02	0.00	1.74	0.87	-0.08	1.82	Pm	33.20	17.23
	Outside	20541	9.20	-0.05	4.47	0.05	0.01	-0.02	9.20	4.47	-0.05	9.25	Pm+Pb	49.80	4.38

TABLE 2.10.6-116 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	3861	-4.30	-0.07	-3.66	-0.04	0.00	-0.01	-0.07	-3.66	-4.30	4.23	Pm+Pb	49.80	10.79
	Middle	3868	0.68	-0.05	-2.28	-0.04	0.00	-0.01	0.68	-0.06	-2.28	2.96	Pm	33.20	10.21
	Outside	3875	5.65	-0.04	-0.90	-0.03	0.00	-0.01	5.65	-0.04	-0.90	6.55	Pm+Pb	49.80	6.60
2	Inside	3943	2.31	-0.02	-1.71	-0.57	0.00	-0.06	2.44	-0.15	-1.71	4.15	Pm+Pb	49.80	11.00
	Middle	3945	0.57	0.00	-2.34	-0.41	0.00	-0.12	0.79	-0.22	-2.34	3.14	Pm	33.20	9.59
	Outside	3947	-0.71	0.04	-2.83	-0.29	0.00	-0.16	0.14	-0.79	-2.84	2.98	Pm+Pb	49.80	15.69
3	Inside	4112	2.97	3.07	-0.44	-3.16	0.07	-0.07	6.17	-0.14	-0.44	6.62	Pm+Pb	49.80	6.52
	Middle	4111	0.19	0.27	-2.15	-0.24	0.12	-0.12	0.49	-0.02	-2.16	2.65	Pm	33.20	11.53
	Outside	4110	-1.77	-1.71	-3.39	1.82	0.17	-0.17	0.09	-3.22	-3.73	3.82	Pm+Pb	49.80	12.03
4	Inside	12507	0.05	3.46	-0.71	-0.59	0.12	-0.01	3.56	-0.05	-0.71	4.27	Pm+Pb	49.80	10.66
	Middle	12509	0.05	0.63	-1.55	-0.38	0.22	-0.01	0.83	-0.13	-1.57	2.41	Pm	33.20	12.79
	Outside	12511	0.07	-1.57	-2.20	-0.21	0.31	-0.01	0.10	-1.47	-2.33	2.43	Pm+Pb	49.80	19.46
5	Inside	12425	-0.05	-2.40	-1.28	0.02	0.21	0.01	-0.05	-1.24	-2.44	2.39	Pm+Pb	49.80	19.87
	Middle	12432	-0.04	0.86	-0.30	0.02	0.26	0.01	0.91	-0.04	-0.36	1.27	Pm	33.20	25.10
	Outside	12439	-0.03	4.11	0.67	0.02	0.31	0.01	4.13	0.64	-0.03	4.16	Pm+Pb	49.80	10.96
6	Inside	29635	0.10	4.96	2.17	0.71	0.37	0.02	5.11	2.13	0.00	5.11	Pm+Pb	49.80	8.74
	Middle	29637	0.08	0.68	0.89	0.41	0.22	0.02	1.10	0.68	-0.13	1.23	Pm	33.20	25.95
	Outside	29639	0.09	-2.71	-0.13	0.18	0.09	0.02	0.11	-0.13	-2.73	2.83	Pm+Pb	49.80	16.58
7	Inside	21240	3.65	3.87	3.36	3.83	0.30	0.31	7.64	3.31	-0.07	7.71	Pm+Pb	49.80	5.46
	Middle	21239	0.19	0.35	1.41	0.23	0.11	0.12	1.44	0.49	0.03	1.41	Pm	33.20	22.49
	Outside	21238	-2.25	-2.12	0.06	-2.32	-0.04	-0.04	0.13	0.06	-4.50	4.64	Pm+Pb	49.80	9.74
8	Inside	21071	2.42	0.01	2.03	0.68	0.02	0.36	2.77	1.87	-0.17	2.94	Pm+Pb	49.80	15.92
	Middle	21073	0.65	0.02	1.65	0.51	0.01	0.11	1.66	0.92	-0.27	1.93	Pm	33.20	16.24
	Outside	21075	-0.60	0.05	1.42	0.37	0.01	-0.12	1.43	0.22	-0.78	2.20	Pm+Pb	49.80	21.63
9	Inside	20989	-5.91	-0.08	-0.52	0.05	0.02	0.02	-0.08	-0.52	-5.91	5.83	Pm+Pb	49.80	7.54
	Middle	20996	0.81	-0.06	1.64	0.05	0.02	0.01	1.64	0.82	-0.06	1.70	Pm	33.20	18.51
	Outside	21003	7.53	-0.04	3.79	0.04	0.02	-0.01	7.53	3.79	-0.04	7.58	Pm+Pb	49.80	5.57

TABLE 2.10.6-117 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	10030	1.23	-0.11	0.22	-0.23	0.28	0.07	1.27	0.38	-0.31	1.57	Pm+Pb	49.80	30.66
	Middle	10029	-0.47	0.04	-0.83	-0.04	0.34	-0.03	0.16	-0.47	-0.95	1.11	Pm	33.20	28.90
	Outside	10028	-1.74	0.12	-1.86	0.10	0.49	-0.38	0.23	-1.45	-2.27	2.50	Pm+Pb	49.80	18.93
4	Inside	9981	0.83	0.56	1.96	-0.72	0.08	0.67	2.31	1.20	-0.16	2.46	Pm+Pb	49.80	19.22
	Middle	9983	-0.19	-0.16	0.02	0.07	0.05	0.18	0.14	-0.17	-0.30	0.45	Pm	33.20	73.60
	Outside	9985	-1.06	-0.75	-1.94	0.81	0.16	-0.19	-0.09	-1.56	-2.11	2.02	Pm+Pb	49.80	23.67
5	Inside	1383	0.65	0.54	3.98	-0.24	0.45	0.89	4.24	0.80	0.13	4.11	Pm+Pb	49.80	11.11
	Middle	1390	0.63	0.55	1.29	-0.50	0.07	0.61	1.70	0.86	-0.08	1.78	Pm	33.20	17.69
	Outside	1397	0.74	0.68	-1.33	-0.76	-0.15	0.51	1.54	-0.01	-1.45	3.00	Pm+Pb	49.80	15.63
6	Inside	1417	-0.07	0.16	2.29	-0.66	0.15	0.51	2.39	0.69	-0.70	3.10	Pm+Pb	49.80	15.09
	Middle	1419	-0.18	-0.15	0.82	-0.24	-0.42	0.60	1.26	-0.30	-0.47	1.73	Pm	33.20	18.19
	Outside	1421	-0.29	-0.41	-0.64	0.20	-0.93	0.84	0.65	-0.14	-1.85	2.50	Pm+Pb	49.80	18.90
7	Inside	1466	-0.14	0.76	1.24	-0.05	-0.53	0.29	1.62	0.44	-0.21	1.83	Pm+Pb	49.80	26.26
	Middle	1465	0.00	-0.12	0.20	-0.01	-0.45	0.34	0.64	-0.06	-0.51	1.15	Pm	33.20	27.77
	Outside	1464	0.12	-0.69	-0.68	0.03	-0.39	0.47	0.36	-0.43	-1.18	1.54	Pm+Pb	49.80	31.38
8	Inside	18545	-0.15	-0.02	2.76	0.42	-0.79	0.05	2.97	0.23	-0.61	3.58	Pm+Pb	49.80	12.93
	Middle	18547	-0.21	-0.28	0.95	0.08	-0.27	0.02	1.00	-0.17	-0.38	1.39	Pm	33.20	22.95
	Outside	18549	-0.27	-0.48	-0.83	-0.25	0.11	0.17	-0.10	-0.53	-0.95	0.86	Pm+Pb	49.80	57.23
9	Inside	18511	0.73	0.55	5.13	0.17	-0.60	0.72	5.32	0.82	0.27	5.04	Pm+Pb	49.80	8.88
	Middle	18518	0.31	0.17	1.67	0.00	-0.42	0.17	1.80	0.30	0.05	1.74	Pm	33.20	18.06
	Outside	18525	0.06	-0.07	-1.62	-0.16	-0.44	-0.20	0.17	-0.04	-1.77	1.94	Pm+Pb	49.80	24.62
10	Inside	27109	0.05	0.32	2.78	0.16	-0.71	-0.07	2.98	0.23	-0.05	3.03	Pm+Pb	49.80	15.43
	Middle	27111	-0.78	-0.40	0.52	-0.63	-0.23	-0.07	0.58	0.02	-1.27	1.84	Pm	33.20	17.03
	Outside	27113	-1.46	-0.92	-1.66	-1.22	-0.02	-0.03	0.06	-1.66	-2.44	2.50	Pm+Pb	49.80	18.92
11	Inside	27158	-0.93	-0.43	0.85	-0.08	-0.46	-0.06	1.00	-0.55	-0.96	1.96	Pm+Pb	49.80	24.44
	Middle	27157	-1.10	-0.58	-0.38	-0.16	-0.47	-0.06	0.00	-0.86	-1.21	1.21	Pm	33.20	26.55
	Outside	27156	-1.56	-0.71	-1.68	-0.22	-0.58	-0.32	-0.43	-1.32	-2.19	1.76	Pm+Pb	49.80	27.27

TABLE 2.10.6-118 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
3	Inside	11617	5.72	-0.09	-0.44	-0.58	-0.01	0.05	5.78	-0.15	-0.44	6.22	Pm+Pb	49.80	7.00
	Middle	11616	0.41	0.05	-2.17	-0.02	0.02	-0.02	0.41	0.04	-2.17	2.58	Pm	33.20	11.87
	Outside	11615	-3.53	0.05	-3.81	0.37	0.02	-0.08	0.08	-3.54	-3.83	3.91	Pm+Pb	49.80	11.72
4	Inside	11529	1.88	0.88	-1.22	-1.36	-0.29	0.28	2.87	-0.07	-1.26	4.13	Pm+Pb	49.80	11.05
	Middle	11531	0.43	-0.22	-2.03	-0.27	-0.08	0.02	0.53	-0.31	-2.03	2.56	Pm	33.20	11.95
	Outside	11533	-0.59	-0.81	-2.38	0.58	0.20	-0.08	-0.11	-1.25	-2.42	2.31	Pm+Pb	49.80	20.57
5	Inside	2748	-1.98	-1.99	-2.94	1.76	-0.08	0.12	-0.23	-2.92	-3.77	3.54	Pm+Pb	49.80	13.07
	Middle	2755	0.20	0.19	-1.18	-0.33	-0.21	0.26	0.59	-0.14	-1.24	1.83	Pm	33.20	17.10
	Outside	2762	2.47	2.46	0.76	-2.38	-0.35	0.39	4.91	0.70	0.08	4.83	Pm+Pb	49.80	9.31
6	Inside	2965	0.77	1.80	-0.08	-1.31	-0.32	0.20	2.74	-0.11	-0.14	2.88	Pm+Pb	49.80	16.28
	Middle	2967	-0.22	0.50	-0.67	-0.31	-0.64	0.48	0.98	-0.29	-1.09	2.07	Pm	33.20	15.04
	Outside	2969	-0.73	-0.43	-0.86	0.45	-0.82	0.82	0.25	-0.15	-2.12	2.37	Pm+Pb	49.80	20.03
7	Inside	3053	-0.10	5.63	1.10	-0.03	-1.14	-0.05	5.90	0.83	-0.11	6.00	Pm+Pb	49.80	7.29
	Middle	3052	0.04	0.51	-0.41	-0.03	-0.84	-0.01	1.01	0.04	-0.91	1.92	Pm	33.20	16.26
	Outside	3051	0.04	-3.27	-1.85	-0.03	-0.64	-0.01	0.04	-1.61	-3.51	3.55	Pm+Pb	49.80	13.04
8	Inside	20093	0.47	1.33	0.18	0.92	-1.20	-1.17	2.92	-0.03	-0.92	3.84	Pm+Pb	49.80	11.97
	Middle	20095	-0.19	0.44	-0.23	0.26	-0.56	-0.56	0.99	-0.15	-0.82	1.81	Pm	33.20	17.34
	Outside	20097	-0.46	-0.15	-0.29	-0.24	-0.04	0.04	-0.01	-0.30	-0.60	0.58	Pm+Pb	49.80	84.69
9	Inside	19876	-1.69	-1.82	-1.16	-1.51	-0.97	-0.77	-0.22	-0.62	-3.83	3.61	Pm+Pb	49.80	12.79
	Middle	19883	0.09	-0.03	0.08	0.19	-0.71	-0.50	1.01	-0.12	-0.75	1.75	Pm	33.20	17.94
	Outside	19890	1.95	1.84	1.49	1.84	-0.40	-0.25	3.82	1.41	0.04	3.79	Pm+Pb	49.80	12.15
10	Inside	28657	1.40	0.66	0.56	1.06	0.06	0.11	2.17	0.55	-0.09	2.26	Pm+Pb	49.80	21.04
	Middle	28659	0.19	-0.27	0.11	0.14	-0.56	-0.56	0.92	-0.15	-0.73	1.65	Pm	33.20	19.11
	Outside	28661	-0.73	-0.89	-0.05	-0.58	-1.16	-1.11	1.02	-0.23	-2.46	3.48	Pm+Pb	49.80	13.32
11	Inside	28745	4.02	-0.19	1.05	0.41	-0.02	0.00	4.06	1.05	-0.22	4.28	Pm+Pb	49.80	10.62
	Middle	28744	0.28	-0.01	0.02	0.01	-0.05	-0.16	0.35	0.02	-0.08	0.43	Pm	33.20	,75.67
	Outside	28743	-2.51	0.08	-0.92	-0.24	-0.10	-0.24	0.11	-0.89	-2.57	2.68	Pm+Pb	49.80	17.60

TABLE 2.10.6-119 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	11752	5.80	-0.13	-1.05	-0.64	0.01	0.00	5.86	-0.20	-1.05	6.91	Pm+Pb	49.80	6.21
	Middle	11751	0.48	-0.02	-2.67	-0.07	0.01	0.01	0.49	-0.02	-2.67	3.16	Pm	33.20	9.50
	Outside	11750	-3.27	0.08	-3.84	0.34	0.01	0.02	0.12	-3.30	-3.84	3.96	Pm+Pb	49.80	11.59
4	Inside	11583	1.84	0.72	-1.82	-1.27	0.01	-0.01	2.67	-0.11	-1.82	4.48	Pm+Pb	49.80	10.11
	Middle	11585	0.71	-0.08	-2.46	-0.29	-0.04	0.05	0.80	-0.18	-2.47	3.27	Pm	33.20	9.15
	Outside	11587	-0.13	-0.67	-2.96	0.45	-0.09	0.10	0.13	-0.92	-2.97	3.09	Pm+Pb	49.80	15.09
5	Inside	2937	-1.99	-1.95	-3.12	1.84	-0.07	0.07	-0.12	-3.11	-3.83	3.70	Pm+Pb	49.80	12.45
	Middle	2944	0.32	0.36	-1.85	-0.43	-0.13	0.13	0.78	-0.09	-1.86	2.64	Pm	33.20	11.56
	Outside	2951	2.62	2.66	-0.58	-2.69	-0.20	0.19	5.34	-0.05	-0.60	5.94	Pm+Pb	49.80	7.39
6	Inside	3019	1.41	2.87	-0.15	-2.13	-0.21	0.18	4.41	-0.10	-0.18	4.59	Pm+Pb	49.80	9.86
	Middle	3021	-0.14	0.78	-1.37	-0.30	-0.22	0.19	0.89	-0.21	-1.42	2.31	Pm	33.20	13.37
	Outside	3023	-1.34	-0.85	-2.36	1.16	-0.22	0.20	0.09	-2.02	-2.62	2.71	Pm+Pb	49.80	17.37
7	Inside	3188	0.00	8.31	1.42	-0.02	-0.36	0.00	8.33	1.40	0.00	8.32	Pm+Pb	49.80	4.98
	Middle	3187	0.09	0.47	-0.93	-0.01	-0.32	0.00	0.54	0.09	-1.00	1.54	Pm	33.20	20.53
	Outside	3186	0.16	-5.05	-2.60	-0.01	-0.30	0.00	0.16	-2.57	-5.08	5.25	Pm+Pb	49.80	8.49
8	Inside	20147	1.18	2.62	0.58	1.86	-0.28	-0.26	3.93	0.54	-0.09	4.03	Pm+Pb	49.80	11.37
	Middle	20149	-0.12	0.83	-0.27	0.31	-0.26	-0.24	1.00	-0.12	-0.44	1.44	Pm	33.20	21.98
	Outside	20151	-1.11	-0.52	-0.89	-0.89	-0.23	-0.21	0.13	-0.79	-1.86	1.99	Pm+Pb	49.80	24.07
9	Inside	20065	-2.19	-2.19	-0.83	-2.13	-0.28	-0.29	-0.06	-0.79	-4.37	4.31	Pm+Pb	49.80	10.56
	Middle	20072	0.44	0.45	0.86	0.50	-0.21	-0.22	1.21	0.59	-0.05	1.26	Pm	33.20	25.45
	Outside	20079	3.08	3.09	2.54	3.12	-0.15	-0.15	6.22	2.53	-0.04	6.25	Pm+Pb	49.80	6.96
10	Inside	28711	2.40	0.99	2.64	1.66	-0.16	-0.17	3.56	2.59	-0.11	3.67	Pm+Pb	49.80	12.58
	Middle	28713	0.89	-0.07	2.01	0.37	-0.09	-0.09	2.02	1.01	-0.20	2.23	Pm	33.20	13.91
	Outside	28715	-0.24	-0.86	1.56	-0.61	-0.03	-0.03	1.57	0.14	-1.24	2.80	Pm+Pb	49.80	16.76
11	Inside	28880	7.29	-0.08	4.06	0.76	-0.01	-0.03	7.37	4.06	-0.16	7.53	Pm+Pb	49.80	5.61
	Middle	28879	0.62	0.03	2.32	0.06	-0.01	-0.01	2.32	0.63	0.02	2.29	Pm	33.20	13.48
	Outside	28878	-4.09	0.12	1.14	-0.43	-0.01	0.00	1.14	0.17	-4.13	5.27	Pm+Pb	49.80	8.45

TABLE 2.10.6-120 - CONTAINMENT WALL STRESSES (ksi), CORNER MODEL - MNOP WITH 1 FT DROP AT 78 DEGREES (T= 200°F) SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	12214	5.43	-0.15	-1.26	-0.60	0.00	0.00	5.50	-0.22	-1.26	6.76	Pm+Pb	49.80	6.37
	Middle	12213	0.49	-0.03	-2.77	-0.07	0.00	0.00	0.50	-0.04	-2.77	3.28	Pm	33.20	9.13
	Outside	12212	-3.00	0.07	-3.87	0.31	0.00	0.01	0.10	-3.03	-3.87	3.97	Pm+Pb	49.80	11.53
4	Inside	12045	1.70	0.63	-1.97	-1.16	0.00	0.01	2.44	-0.11	-1.97	4.42	Pm+Pb	49.80	10.27
	Middle	12047	0.70	-0.07	-2.56	-0.29	-0.02	0.03	0.79	-0.17	-2.56	3.35	Pm	33.20	8.90
	Outside	12049	-0.04	-0.58	-3.00	0.36	-0.04	0.05	0.14	-0.76	-3.01	3.15	Pm+Pb	49.80	14.83
5	Inside	3399	-1.89	-1.85	-3.13	1.80	-0.03	0.03	-0.07	-3.13	-3.67	3.60	Pm+Pb	49.80	12.82
	Middle	3406	0.33	0.37	-1.91	-0.41	-0.06	0.06	0.76	-0.06	-1.91	2.67	Pm	33.20	11.42
	Outside	3413	2.55	2.59	-0.69	-2.61	-0.09	0.08	5.19	-0.04	-0.69	5.88	Pm+Pb	49.80	7.47
6	Inside	3481	1.44	2.91	-0.14	-2.16	-0.07	0.06	4.45	-0.10	-0.14	4.60	Pm+Pb	49.80	9.83
	Middle	3483	-0.13	0.77	-1.39	-0.29	-0.08	0.07	0.86	-0.22	-1.39	2.25	Pm	33.20	13.73
	Outside	3485	-1.36	-0.89	-2.39	1.19	-0.08	0.08	0.09	-2.25	-2.48	2.58	Pm+Pb	49.80	18.33
7	Inside	3650	0.01	8.33	1.45	-0.01	-0.10	0.00	8.33	1.45	0.01	8.32	Pm+Pb	49.80	4.98
	Middle	3649	0.09	0.45	-0.92	-0.01	-0.11	0.00	0.46	0.09	-0.92	1.38	Pm	33.20	22.98
	Outside	3648	0.17	-5.09	-2.60	-0.01	-0.11	0.00	0.17	-2.59	-5.10	5.26	Pm+Pb	49.80	8.46
8	Inside	20609	1.25	2.69	0.70	1.92	-0.08	-0.07	4.03	0.69	-0.08	4.11	Pm+Pb	49.80	11.12
	Middle	20611	-0.12	0.82	-0.20	0.30	-0.08	-0.07	0.92	-0.16	-0.26	1.17	Pm	33.20	27.34
	Outside	20613	-1.17	-0.61	-0.87	-0.97	-0.08	-0.07	0.12	-0.86	-1.91	2.03	Pm+Pb	49.80	23.50
9	Inside	20527	-2.13	-2.12	-0.60	-2.06	-0.09	-0.09	-0.06	-0.59	-4.19	4.13	Pm+Pb	49.80	11.05
	Middle	20534	0.42	0.44	1.04	0.48	-0.05	-0.06	1.07	0.87	-0.05	1.12	Pm	33.20	28.58
	Outside	20541	2.97	3.00	2.67	3.02	-0.02	-0.02	6.00	2.67	-0.04	6.04	Pm+Pb	49.80	7.25
10	Inside	29173	2.20	0.88	2.84	1.51	-0.06	-0.06	3.21	2.82	-0.11	3.32	Pm+Pb	49.80	14.01
	Middle	29175	0.86	-0.07	2.29	0.36	-0.02	-0.02	2.29	0.98	-0.20	2.49	Pm	33.20	12.34
	Outside	29177	-0.14	-0.76	1.92	-0.51	0.01	0.02	1.92	0.14	-1.05	2.97	Pm+Pb	49.80	15.74
11	Inside	29342	6.79	-0.10	4.22	0.72	0.00	-0.01	6.86	4.22	-0.18	7.04	Pm+Pb	49.80	6.07
	Middle	29341	0.61	0.01	2.63	0.07	0.00	0.00	2.63	0.62	0.01	2.62	Pm	33.20	11.67
	Outside	29340	-3.76	0.11	1.56	-0.40	0.00	0.00	1.56	0.15	-3.80	5.36	Pm+Pb	49.80	8.30

TABLE 2.10.6-121 - CONTAINMENT WALL STRESSES (ksi), CORNER ORIENTATION - MNOP (T= 200°F)
SECTION E

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
3	Inside	12676	5.39	-0.18	-1.13	-0.61	0.00	0.00	5.46	-0.25	-1.13	6.59	Pm+Pb	49.80	6.56
	Middle	12675	0.50	-0.05	-2.60	-0.08	0.00	0.00	0.51	-0.06	-2.60	3.11	Pm	33.20	9.68
	Outside	12674	-2.97	0.06	-3.68	0.30	0.00	-0.01	0.09	-3.00	-3.68	3.77	Pm+Pb	49.80	12.21
4	Inside	12507	1.70	0.64	-1.80	-1.15	0.01	-0.01	2.44	-0.10	-1.80	4.24	Pm+Pb	49.80	10.75
	Middle	12509	0.69	-0.07	-2.38	-0.29	0.02	-0.03	0.79	-0.16	-2.38	3.17	Pm	33.20	9.47
	Outside	12511	-0.05	-0.58	-2.82	0.36	0.04	-0.05	0.14	-0.76	-2.83	2.96	Pm+Pb	49.80	15.81
5	Inside	3861	-1.82	-1.79	-2.89	1.76	0.05	-0.05	-0.04	-2.88	-3.57	3.53	Pm+Pb	49.80	13.12
	Middle	3868	0.34	0.37	-1.68	-0.39	0.08	-0.08	0.75	-0.04	-1.69	2.44	Pm	33.20	12.61
	Outside	3875	2.50	2.53	-0.47	-2.54	0.12	-0.12	5.06	-0.03	-0.48	5.54	Pm+Pb	49.80	7.99
6	Inside	3943	1.37	2.77	0.06	-2.03	0.14	-0.12	4.23	0.05	-0.09	4.31	Pm+Pb	49.80	10.54
	Middle	3945	-0.12	0.76	-1.09	-0.28	0.15	-0.13	0.85	-0.19	-1.12	1.97	Pm	33.20	15.86
	Outside	3947	-1.27	-0.81	-2.01	1.11	0.15	-0.13	0.10	-1.88	-2.31	2.41	Pm+Pb	49.80	19.70
7	Inside	4112	-0.04	7.93	1.56	-0.01	0.29	0.01	7.95	1.55	-0.04	7.99	Pm+Pb	49.80	5.24
	Middle	4111	0.06	0.44	-0.63	-0.01	0.23	0.01	0.49	0.06	-0.67	1.16	Pm	33.20	27.59
	Outside	4110	0.15	-4.84	-2.18	-0.01	0.18	0.01	0.15	-2.17	-4.85	5.00	Pm+Pb	49.80	8.96
8	Inside	21071	1.25	2.65	0.89	1.89	0.24	0.22	4.00	0.86	-0.07	4.07	Pm+Pb	49.80	11.23
	Middle	21073	-0.11	0.79	0.00	0.28	0.18	0.17	0.92	0.01	-0.25	1.17	Pm	33.20	27.27
	Outside	21075	-1.16	-0.64	-0.66	-0.98	0.13	0.12	0.12	-0.63	-1.93	2.05	Pm+Pb	49.80	23.31
9	Inside	20989	-2.00	-1.97	-0.46	-1.93	0.18	0.17	-0.05	-0.45	-3.93	3.87	Pm+Pb	49.80	11.85
	Middle	20996	0.38	0.41	1.06	0.44	0.16	0.15	1.19	0.70	-0.04	1.24	Pm	33.20	25.81
	Outside	21003	2.76	2.79	2.58	2.81	0.13	0.13	5.60	2.57	-0.03	5.63	Pm+Pb	49.80	7.84
10	Inside	29635	2.01	0.79	2.61	1.38	0.06	0.06	2.93	2.59	-0.10	3.04	Pm+Pb	49.80	15.39
	Middle	29637	0.79	-0.07	2.10	0.33	0.07	0.07	2.11	0.90	-0.18	2.29	Pm	33.20	13.50
	Outside	29639	-0.12	-0.70	1.75	-0.46	0.07	0.08	1.76	0.14	-0.95	2.71	Pm+Pb	49.80	17.37
11	Inside	29804	6.26	-0.15	3.82	0.68	0.00	0.01	6.33	3.82	-0.22	6.56	Pm+Pb	49.80	6.60
	Middle	29803	0.56	-0.02	2.37	0.08	0.00	0.01	2.37	0.57	-0.03	2.40	Pm	33.20	12.86
	Outside	29802	-3.47	0.09	1.38	-0.36	0.00	0.01	1.38	0.12	-3.50	4.88	Pm+Pb	49.80	9.20

TABLE 2.10.6-122 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - 1 FT END DROP (T= -20°F)
SECTION A

Stress location		Node	Combined Stress Components						Principal Stresses			Stress	Stress	Stress	Design
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3	Int.	Type	Limit	Margin
1	Inside	1383	0.83	0.40	8.55	0.17	0.64	-0.01	8.60	0.88	0.30	8.29	Pm+Pb	50.00	5.03
	Middle	1390	0.20	0.17	6.53	0.04	0.25	0.05	6.54	0.22	0.14	6.40	Pm	33.30	4.20
	Outside	1397	-0.33	0.04	4.57	0.04	0.05	0.59	4.64	0.04	-0.40	5.04	Pm+Pb	50.00	8.91
2	Inside	1417	0.08	-0.07	7.52	0.17	0.47	0.57	7.59	0.12	-0.18	7.77	Pm+Pb	50.00	5.43
	Middle	1419	-0.52	-0.09	5.97	0.16	0.11	0.18	5.98	-0.04	-0.57	6.55	Pm	33.30	4.09
	Outside	1421	-1.06	-0.08	4.42	0.18	0.00	-0.14	4.42	-0.05	-1.10	5.52	Pm+Pb	50.00	8.05
3	Inside	1466	-0.63	-0.63	6.20	0.46	0.36	0.36	6.24	-0.22	-1.09	7.33	Pm+Pb	50.00	5.82
	Middle	1465	-0.36	-0.36	5.35	0.22	0.45	0.45	5.42	-0.21	-0.59	6.01	Pm	33.30	4.55
	Outside	1464	-0.14	-0.14	4.51	0.07	0.60	0.60	4.66	-0.21	-0.22	4.88	Pm+Pb	50.00	9.25
4	Inside	9981	-0.07	0.08	7.52	0.17	0.57	0.47	7.59	0.12	-0.18	7.77	Pm+Pb	50.00	5.43
	Middle	9983	-0.09	-0.52	5.97	0.16	0.18	0.11	5.98	-0.04	-0.57	6.55	Pm	33.30	4.09
	Outside	9985	-0.08	-1.06	4.42	0.18	-0.14	0.00	4.42	-0.05	-1.10	5.52	Pm+Pb	50.00	8.05
5	Inside	9947	0.40	0.83	8.55	0.00	0.00	0.64	8.60	0.83	0.35	8.24	Pm+Pb	50.00	5.07
	Middle	9954	0.17	0.20	6.53	0.00	0.00	0.25	6.54	0.20	0.16	6.37	Pm	33.30	4.23
	Outside	9961	0.04	-0.33	4.57	0.00	0.00	0.05	4.57	0.04	-0.33	4.90	Pm+Pb	50.00	9.20
6	Inside	27109	-0.07	0.08	7.52	-0.17	-0.57	0.47	7.59	0.12	-0.18	7.77	Pm+Pb	50.00	5.43
	Middle	27111	-0.09	-0.52	5.97	-0.16	-0.18	0.11	5.98	-0.04	-0.57	6.55	Pm	33.30	4.09
	Outside	27113	-0.08	-1.06	4.42	-0.18	0.14	0.00	4.42	-0.05	-1.10	5.52	Pm+Pb	50.00	8.05
7	Inside	18594	-0.63	-0.63	6.20	-0.46	-0.36	0.36	6.24	-0.22	-1.09	7.33	Pm+Pb	50.00	5.82
	Middle	18593	-0.36	-0.36	5.35	-0.22	-0.45	0.45	5.42	-0.21	-0.59	6.01	Pm	33.30	4.55
	Outside	18592	-0.14	-0.14	4.51	-0.07	-0.60	0.60	4.66	-0.21	-0.22	4.88	Pm+Pb	50.00	9.25
8	Inside	18545	0.08	-0.07	7.52	-0.17	-0.47	0.57	7.59	0.12	-0.18	7.77	Pm+Pb	50.00	5.43
	Middle	18547	-0.52	-0.09	5.97	-0.16	-0.11	0.18	5.98	-0.04	-0.57	6.55	Pm	33.30	4.09
	Outside	18549	-1.06	-0.08	4.42	-0.18	0.00	-0.14	4.42	-0.05	-1.10	5.52	Pm+Pb	50.00	8.05
9	Inside	18511	0.83	0.40	8.55	-0.17	-0.64	-0.01	8.60	0.88	0.30	8.29	Pm+Pb	50.00	5.03
	Middle	18518	0.20	0.17	6.53	-0.04	-0.25	0.05	6.54	0.22	0.14	6.40	Pm	33.30	4.20
	Outside	18525	-0.33	0.04	4.57	-0.04	-0.05	0.59	4.64	0.04	-0.40	5.04	Pm+Pb	50.00	8.91

TABLE 2.10.6-123 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - 1 FT END DROP (T= -20°F)
SECTION B

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	2748	-0.36	-0.23	4.14	-0.10	0.00	0.02	4.14	-0.18	-0.41	4.55	Pm+Pb	50.00	9.98
	Middle	2755	-0.31	-0.19	3.98	-0.09	0.01	0.03	3.98	-0.14	-0.35	4.34	Pm	33.30	6.68
	Outside	2762	-0.17	0.03	4.10	-0.07	0.03	0.05	4.10	0.05	-0.19	4.29	Pm+Pb	50.00	10.65
2	Inside	2965	-0.28	0.00	4.15	0.07	0.02	0.04	4.15	0.02	-0.29	4.44	Pm+Pb	50.00	10.25
	Middle	2967	-0.28	-0.05	4.01	0.06	0.02	0.09	4.01	-0.03	-0.29	4.31	Pm	33.30	6.73
	Outside	2969	-0.12	0.13	4.19	0.05	0.03	0.14	4.20	0.13	-0.13	4.33	Pm+Pb	50.00	10.56
3	Inside	3053	-0.38	-0.38	3.92	0.30	0.05	0.05	3.93	-0.08	-0.68	4.61	Pm+Pb	50.00	9.86
	Middle	3052	-0.08	-0.08	4.01	0.05	0.06	0.06	4.01	-0.03	-0.13	4.14	Pm	33.30	7.04
	Outside	3051	-0.01	-0.01	3.54	-0.11	0.07	0.07	3.55	0.10	-0.13	3.68	Pm+Pb	50.00	12.60
4	Inside	11529	0.00	-0.28	4.15	0.07	0.04	0.02	4.15	0.02	-0.29	4.44	Pm+Pb	50.00	10.25
	Middle	11531	-0.05	-0.28	4.01	0.06	0.09	0.02	4.01	-0.03	-0.29	4.31	Pm	33.30	6.73
	Outside	11533	0.13	-0.12	4.19	0.05	0.14	0.03	4.20	0.13	-0.13	4.33	Pm+Pb	50.00	10.56
5	Inside	11312	-0.23	-0.36	4.14	0.00	0.00	0.00	4.14	-0.23	-0.36	4.50	Pm+Pb	50.00	10.11
	Middle	11319	-0.19	-0.31	3.98	0.00	0.00	0.01	3.98	-0.19	-0.31	4.29	Pm	33.30	6.76
	Outside	11326	0.03	-0.17	4.10	0.00	0.00	0.03	4.10	0.03	-0.17	4.27	Pm+Pb	50.00	10.72
6	Inside	28657	0.00	-0.28	4.15	-0.07	-0.04	0.02	4.15	0.02	-0.29	4.44	Pm+Pb	50.00	10.25
	Middle	28659	-0.05	-0.28	4.01	-0.06	-0.09	0.02	4.01	-0.03	-0.29	4.31	Pm	33.30	6.73
	Outside	28661	0.13	-0.12	4.19	-0.05	-0.14	0.03	4.20	0.13	-0.13	4.33	Pm+Pb	50.00	10.56
7	Inside	20181	-0.38	-0.38	3.92	-0.30	-0.05	0.05	3.93	-0.08	-0.68	4.61	Pm+Pb	50.00	9.86
	Middle	20180	-0.08	-0.08	4.01	-0.05	-0.06	0.06	4.01	-0.03	-0.13	4.14	Pm	33.30	7.04
	Outside	20179	-0.01	-0.01	3.54	0.11	-0.07	0.07	3.55	0.10	-0.13	3.68	Pm+Pb	50.00	12.60
8	Inside	20093	-0.28	0.00	4.15	-0.07	-0.02	0.04	4.15	0.02	-0.29	4.44	Pm+Pb	50.00	10.25
	Middle	20095	-0.28	-0.05	4.01	-0.06	-0.02	0.09	4.01	-0.03	-0.29	4.31	Pm	33.30	6.73
	Outside	20097	-0.12	0.13	4.19	-0.05	-0.03	0.14	4.20	0.13	-0.13	4.33	Pm+Pb	50.00	10.56
9	Inside	19876	-0.36	-0.23	4.14	0.10	0.00	0.02	4.14	-0.18	-0.41	4.55	Pm+Pb	50.00	9.98
	Middle	19883	-0.31	-0.19	3.98	0.09	-0.01	0.03	3.98	-0.14	-0.35	4.34	Pm	33.30	6.68
	Outside	19890	-0.17	0.03	4.10	0.07	-0.03	0.05	4.10	0.05	-0.19	4.29	Pm+Pb	50.00	10.65

TABLE 2.10.6-124 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - 1 FT END DROP (T= -20°F)
SECTION C

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	2937	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	2944	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	2951	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.19	Pm+Pb	50.00	10.92
2	Inside	3019	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	3021	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	3023	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.19	Pm+Pb	50.00	10.92
3	Inside	3188	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	3187	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	3186	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.20	Pm+Pb	50.00	10.92
4	Inside	11583	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	11585	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	11587	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.19	Pm+Pb	50.00	10.92
5	Inside	11501	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	11508	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.19	Pm	33.30	6.94
	Outside	11515	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.19	Pm+Pb	50.00	10.92
6	Inside	28711	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	28713	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	28715	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.19	Pm+Pb	50.00	10.92
7	Inside	20316	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	20315	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	20314	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.20	Pm+Pb	50.00	10.92
8	Inside	20147	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	20149	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	20151	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.19	Pm+Pb	50.00	10.92
9	Inside	20065	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm+Pb	50.00	10.92
	Middle	20072	0.00	0.00	4.20	0.00	0.00	0.00	4.20	0.00	0.00	4.20	Pm	33.30	6.94
	Outside	20079	0.00	0.00	4.19	0.00	0.00	0.00	4.19	0.00	0.00	4.19	Pm+Pb	50.00	10.92

TABLE 2.10.6-125 - CONTAINMENT WALL STRESSES (ksi), FLAT MODEL - 1 FT END DROP (T= -20°F)
SECTION D

Stress location		Node	Combined Stress Components						Principal Stresses			Stress Int.	Stress Type	Stress Limit	Design Margin
			Sx	Sy	Sz	Sxy	Syz	Sxz	S1	S2	S3				
1	Inside	3399	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	3406	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	3413	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
2	Inside	3481	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	3483	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	3485	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.67
3	Inside	3650	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	3649	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	3648	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.67
4	Inside	12045	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	12047	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	12049	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.67
5	Inside	11963	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	11970	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	11977	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
6	Inside	29173	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	29175	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	29177	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.67
7	Inside	20778	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	20777	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	20776	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.67
8	Inside	20609	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	20611	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	20613	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.67
9	Inside	20527	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66
	Middle	20534	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm	33.30	6.77
	Outside	20541	0.00	0.00	4.29	0.00	0.00	0.00	4.29	0.00	0.00	4.29	Pm+Pb	50.00	10.66