

**Table 6.2.1-1—Loss of Coolant Accidents
Sheet 1 of 4**

Case	Break Location	Break Type ⁷	Cd	Single Failure	ECCS	Offsite Power Configuration	Back Pressure
1	Hot Leg	DEG	1.0	SIS/RHR Heat Exchangers	Max	LOOP	60 psia
2	Hot Leg	DEG	1.0	1 Train ECCS	Min	LOOP	60 psia
3	Hot Leg	DEG	1.0	1 Train ECCS	Min	No LOOP	60 psia
4	Hot Leg	DEG	1.0	SIS/RHR Heat Exchangers	Max	No LOOP	60 psia
5	Hot Leg	DEG	0.8	1 Train ECCS	Min	LOOP	60 psia
6	Hot Leg	DEG	0.6	1 Train ECCS	Min	LOOP	60 psia
7	Hot Leg	Split	0.8	1 Train ECCS	Min	LOOP	60 psia
7A	Hot Leg	DEG	1.0	1 Train ECCS	Min	LOOP	14.7 psia
7C	Hot Leg	Split	1.0	1 Train ECCS	Min	LOOP	14.7 psia
8	Pump Suction	DEG	1.0	SIS/RHR Heat Exchangers	Max	LOOP	60 psia
9	Pump Suction	DEG	1.0	1 Train ECCS	Min	LOOP	60 psia
10	Pump Suction	DEG	1.0	1 Train ECCS	Min	No LOOP	60 psia
10B	Pump Suction	DEG	1.0	SIS/RHR Heat Exchangers	Max	No LOOP	60 psia
11	Pump Suction	DEG	1.0	1 Train ECCS	Min	No LOOP	60 psia
12	Pump Suction	DEG	0.8	1 Train ECCS	Min	No LOOP	60 psia
13	Pump Suction	DEG	0.6	1 Train ECCS	Min	No LOOP	60 psia
14	Pump Suction	Split	0.8	1 Train ECCS	Min	No LOOP	60 psia
14B	Pump Suction	Split	0.8	1 Train ECCS	Min	No LOOP	14.7 psia
14C	Pump Suction	Split	0.8	1 Train ECCS	Min	No LOOP	76.7 psia
14D ¹	Pump Suction	Split	0.8	1 Train ECCS	Min	No LOOP	60 psia
14E	Pump Suction	Split	1.0	1 Train ECCS	Min	No LOOP	14.7 psia
15	Pump Discharge	DEG	1.0	SIS/RHR Heat Exchangers	Max	LOOP	60 psia

**Table 6.2.1-1—Loss of Coolant Accidents
Sheet 2 of 4**

Case	Break Location	Break Type ⁷	Cd	Single Failure	ECCS	Offsite Power Configuration	Back Pressure
16	Pump Discharge	DEG	1.0	1 Train ECCS	Min	LOOP	60 psia
17	Pump Discharge	DEG	1.0	1 Train ECCS	Min	No LOOP	60 psia
18	Pump Discharge	DEG	1.0	SIS/RHR Heat Exchangers	Max	No LOOP	60 psia
19 ²	Pump Discharge	DEG	1.0	1 Train ECCS	Min	No LOOP	60 psia
20 ³	Pump Discharge	DEG	1.0	1 Train ECCS	Min	No LOOP	60 psia
21	Pump Discharge	DEG	0.8	1 Train ECCS	Min	No LOOP	60 psia
22	Pump Discharge	Split	0.8	1 Train ECCS	Min	No LOOP	60 psia
23	Pump Discharge	Split	0.6	1 Train ECCS	Min	No LOOP	60 psia
24	Pump Discharge	DEG	0.6	1 Train ECCS	Min	No LOOP	60 psia
25	Pump Discharge	Split	1.0	1 Train ECCS	Min	No LOOP	60 psia
26	Pump Discharge	Split	1.0	1 Train ECCS	Min	No LOOP	14.7 psia
27	Pump Discharge	Split	1.0	1 Train ECCS	Min	No LOOP	76.7 psia
28 ¹	Pump Discharge	Split	1.0	1 Train ECCS	Min	No LOOP	60 psia
29 ⁴	Pump Discharge	Split	1.0	1 Train ECCS	Min	No LOOP	60 psia
30 ⁵	Pump Discharge	Split	1.0	1 Train ECCS	Min	No LOOP	60 psia
31 ⁶	Pump Discharge	Split	1.0	1 Train ECCS	Min	No LOOP	60 psia
32 ¹⁶	Hot Leg	DEG	1.0	1 Train ECCS ¹³	Min	No LOOP	Note 8
32A ¹⁶	Hot Leg	DEG	1.0	1 Train ECCS ¹³	Min	LOOP	Note 8
32B ¹⁶	Hot Leg	Split	1.0	1 Train ECCS ¹³	Min	LOOP	Note 8
32C ¹⁶	Hot Leg	Split	0.8	1 Train ECCS ¹³	Min	LOOP	Note 8
32D ¹⁶	Hot Leg	Split	0.6	1 Train ECCS ¹³	Min	LOOP	Note 8

**Table 6.2.1-1—Loss of Coolant Accidents
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Case	Break Location	Break Type ⁷	Cd	Single Failure	ECCS	Offsite Power Configuration	Back Pressure
33 ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ⁹	Min	No LOOP	Note 8
34 ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ¹⁰	Min	No LOOP	Note 8
34A ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ^{10,11,13}	Min	No LOOP	Note 8
34B ¹⁶	Pump Suction	DEG	0.8	1 Train ECCS ^{10,11,13}	Min	No LOOP	Note 8
34C ¹⁶	Pump Suction	DEG	0.6	1 Train ECCS ^{10,11,13}	Min	No LOOP	Note 8
34D ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ^{10,11,13}	Min	LOOP	Note 8
34E ¹⁶	Pump Suction	DEG	0.8	1 Train ECCS ^{10,11,13}	Min	LOOP	Note 8
34F ¹⁶	Pump Suction	DEG	0.6	1 Train ECCS ^{10,11,13}	Min	LOOP	Note 8
34G ¹⁶	Pump Suction	Split	1.0	1 Train ECCS ^{10,11,13}	Min	No LOOP	Note 8
34H ¹⁶	Pump Suction	Split	0.8	1 Train ECCS ^{10,11,13}	Min	No LOOP	Note 8
34I ¹⁶	Pump Suction	Split	0.6	1 Train ECCS ^{10,11,13}	Min	No LOOP	Note 8
34J ¹⁶	Pump Suction	Split	1.0	1 Train ECCS ^{10,11,13}	Min	LOOP	Note 8
34K ¹⁶	Pump Suction	Split	0.8	1 Train ECCS ^{10,11,13}	Min	LOOP	Note 8
34L ¹⁶	Pump Suction	Split	0.6	1 Train ECCS ^{10,11,13}	Min	LOOP	Note 8
35	Case not used						
36 ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ^{10, 15}	Min	No LOOP	Note 8
37 ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ^{10, 12}	Min	No LOOP	Note 8
38 ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ¹⁰	Min	LOOP	Note 8
39 ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ^{10, 11}	Min	No LOOP	Note 8
40 ¹⁶	Pump Suction	DEG	1.0	1 Train ECCS ^{10, 11, 13}	Min	No LOOP	Note 8
41 ¹⁶	Pump Discharge	DEG	1.0	1 Train ECCS ^{9, 11, 13}	Min	No LOOP	Note 8

**Table 6.2.1-1—Loss of Coolant Accidents
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Case	Break Location	Break Type ⁷	Cd	Single Failure	ECCS	Offsite Power Configuration	Back Pressure
41A ¹⁶	Pump Discharge	DEG	1.0	1 Train ECCS ^{9,11,13}	Min	LOOP	Note 8
41B ¹⁶	Pump Discharge	Split	1.0	1 Train ECCS ^{9,11,13}	Min	LOOP	Note 8
41B ¹⁶	Pump Discharge	Split	0.8	1 Train ECCS ^{9,11,13}	Min	LOOP	Note 8
41D ¹⁶	Pump Discharge	Split	0.6	1 Train ECCS ^{9,11,13}	Min	LOOP	Note 8
42	Pump Discharge	0.5 ft ² (9 in)	1.0	1 Train ECCS	Min	LOOP	Note 8
43	Pump Discharge	0.1963 ft ² (6 in)	1.0	1 Train ECCS	Min	LOOP	Note 8
44	Pump Discharge	0.0491 ft ² (3 in)	1.0	1 Train ECCS	Min	LOOP	Note 8
45	Hot Leg	0.0491 ft ² (3 in)	1.0	1 Train ECCS	Min	LOOP	Note 8
46	Hot Leg	0.0491 ft ² (3 in)	1.0	1 Train ECCS ¹⁴	Min	LOOP	Note 8

Notes:

1. Increased IRWST Temperature to 248°F.
2. Based on Case 17 with the percentage of LHSI to the intact loop to be 0%.
3. Based on Case 17 with the percentage of LHSI to the intact loop to be 25%.
4. Based on Case 25 with instantaneous feedwater isolation.
5. Long-Term LOCA Run Based on Case 25.

6. Increased IRWST Temperature to 170°F.
7. DEG = double-ended guillotine.
8. Containment pressure used in the M&E calculation matched the predicted GOTHIC pressure profile.
9. Two available ECCS trains aligned to one intact loop and one broken loop.
10. Two available ECCS trains aligned two intact loops.
11. Partial Cooldown not credited.
12. RCP anti-rotation device not credited.
13. All Containment doors remain closed.
14. Rupture foils assumed to remain closed.
15. Hot leg nozzle gap remains open during reflood.
16. GOTHIC multi-node sub-divided containment model.

Table 6.2.1-2—Main Steam Line Breaks
Sheet 1 of 2

Case	Power Level (RTP)	Break Type ¹	Size	Single Failure	Offsite Power Configuration
1	100%	DEG	1.4 ft ²	MSIV	Available
2	100%	Split	1.0 ft ²	MSIV	Available
3	100%	Split	0.7 ft ²	MSIV	Available
4	100%	Split	0.52 ft ²	MSIV	Available
5	100%	Split	0.3 ft ²	MSIV	Available
6	80%	DEG	1.4 ft ²	MSIV	Available
7	80%	Split	1.0 ft ²	MSIV	Available
8	80%	Split	0.7 ft ²	MSIV	Available
9	80%	Split	0.52 ft ²	MSIV	Available
10	80%	Split	0.3 ft ²	MSIV	Available
11	60%	DEG	1.4 ft ²	MSIV	Available
12	60%	Split	1.0 ft ²	MSIV	Available
13	60%	Split	0.7 ft ²	MSIV	Available
14	60%	Split	0.52 ft ²	MSIV	Available
15	60%	Split	0.3 ft ²	MSIV	Available
16	50%	DEG	1.4 ft ²	MSIV	Available
17	50%	Split	1.0 ft ²	MSIV	Available
18	50%	Split	0.7 ft ²	MSIV	Available
19	50%	Split	0.52 ft ²	MSIV	Available
20	50%	Split	0.3 ft ²	MSIV	Available
21	40%	DEG	1.4 ft ²	MSIV	Available
22	40%	Split	1.0 ft ²	MSIV	Available
22(A)	40%	Split	3.0 ft ²	MSIV	Available
22(B)	40%	Split	1.72 ft ²	MSIV	Available
23	40%	Split	0.7 ft ²	MSIV	Available
24	40%	Split	0.52 ft ²	MSIV	Available
25	40%	Split	0.3 ft ²	MSIV	Available
26	20%	DEG	1.4 ft ²	MSIV	Available
26(A)	20%	DEG ²	1.4ft ²	MSIV	Available
26(B)	20%	DEG ^{2, 3}	1.4ft ²	MSIV	Available

**Table 6.2.1-2—Main Steam Line Breaks
Sheet 2 of 2**

Case	Power Level (RTP)	Break Type¹	Size	Single Failure	Offsite Power Configuration
26(C)	20%	Split	8.25 ft ²	MSIV	Available
26(D)	20%	Split	4.12 ft ²	MSIV	Available
26(E)	20%	Split	3.0 ft ²	MSIV	Available
26(F)	20%	Split	1.72 ft ²	MSIV	Available
27	20%	Split	1.0 ft ²	MSIV	Available
28	20%	Split	0.7 ft ²	MSIV	Available
29	20%	Split	0.52 ft ²	MSIV	Available
30	20%	Split	0.3 ft ²	MSIV	Available
31	0%	DEG	1.4 ft ²	MSIV	Available
32	0%	Split	1.0 ft ²	MSIV	Available
32(A)	0%	Split	8.25 ft ²	MSIV	Available
32(B)	0%	Split	4.12 ft ²	MSIV	Available
32(C)	0%	Split	3.0 ft ²	MSIV	Available
32(D)	0%	Split	1.72 ft ²	MSIV	Available
32(E)	0%	Split ²	1.72 ft ²	MSIV	Available
33	0%	Split	0.7 ft ²	MSIV	Available
34	0%	Split	0.52 ft ²	MSIV	Available
35	0%	Split	0.3 ft ²	MSIV	Available
35(A)	0%	Split ³	0.3 ft ²	MSIV	Available
36	0%	Split	0.2 ft ²	MSIV	Available
37	0%	Split	0.15 ft ²	MSIV	Available
38	0%	Split	0.1 ft ²	MSIV	Available
39	0%	Split	0.01 ft ²	MSIV	Available
40	0%	Split	0.005 ft ²	MSIV	Available

Notes:

1. DEG = double-ended guillotine.
2. No EFW supplied to broken SG.
3. Break located in the accessible space outside the SG towers.

Table 6.2.1-3—LHSI Heat Exchanger Data

Parameter	Analytical Inputs
No. of shell side passes	1
Number of tube side passes	1 (U-Tube Design)
No. of tubes	1088
Tube material	Austenitic steel (stainless steel)
Tube thickness	0.04 in
Total tube side flow area	1.311 ft ²
Tube internal diameter	0.47 in
Tube outer diameter	0.55 in
Shell outer diameter	3.9 ft
Shell wall thickness	0.71 in
Tube side fouling resistance	5.0×10^{-4} (ft ² -hr-°F/BTU)
Shell side fouling resistance	5.0×10^{-4} (ft ² -hr-°F/BTU)
CCW flow rate at inlet of RHRS heat exchanger	608.5 lb _m /s
CCW temperature at inlet of RHRS heat exchanger	113 °F
Total tube side surface area (total inside surface area of tubes)	4751.5 ft ²
Total shell side surface area (total outside surface area of tubes)	5560.3 ft ²
Overall heat transfer coefficient	444.9 (BTU/ft ² -hr-°F)

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 1 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
	Containment Wall with Steel Liner	0.0079	0.000	0.236	0.118	48.11	98778.0	
1	Access to RB annulus	0.0079	0.000	0.236	0.118	51.42	834.8	1, 11, 12
2	Lower annulus rooms L1&2 to RB annulus	0.0079	0.000	0.236	0.118	51.42	1627.9	1, 11, 12
3	Lower annulus rooms L3&4 to RB annulus	0.0079	0.000	0.236	0.118	51.42	1627.9	1, 11, 12
4	Hot piping to RB annulus	0.0079	0.000	0.236	0.118	51.42	1920.1	1, 11, 12
5	Middle annulus rooms L1&2 to RB annulus	0.0079	0.000	0.236	0.118	51.42	12279.6	1, 11, 12
6	Middle annulus rooms L3&4 to RB annulus	0.0079	0.000	0.236	0.118	51.40	13663.5	1, 11, 12
7	Access to RB annulus	0.0079	0.000	0.236	0.118	51.42	709.9	1, 11, 12
8	Middle annulus rooms L3&4 to RB annulus	0.0079	0.000	0.236	0.118	51.42	1403.8	1, 11, 12
9	Lower & upper dome L1, 2, 3 & 4 to RB annulus	0.0079	0.000	0.236	0.118	51.42	5568.3	1, 11, 12
10	Upper annulus rooms L1&2 to RB annulus	0.0079	0.000	0.236	0.118	51.42	3559.0	1, 11, 12
11	Upper annulus rooms L3&4 to RB annulus	0.0079	0.000	0.236	0.118	51.42	3559.0	1, 11, 12
12	Staircase (south) to RB annulus	0.0079	0.000	0.236	0.118	51.42	470.4	1, 11, 12
13	Lower & upper dome L1, 2, 3 & 4 to RB annulus	0.0079	0.000	0.236	0.118	51.18	24859.3	1, 11, 12
14	Lower & upper dome L1, 2, 3 & 4 to RB annulus	0.0079	0.000	0.236	0.118	39.37	26694.5	1, 11, 12
	IRWST Vertical Wall (in contact with IRWST)	0.0000	0.000	0.157	0.000	55.28	7197.2	
1	Spreading rooms to IRWST	0.0000	0.000	0.157	0.000	47.24	452.7	2, 11
2	IRWST to SG blowdown (LCQ) HX etc.	0.0000	0.000	0.157	0.000	11.81	211.6	2, 11

Table 6.2.1-4—Containment Heat Sink Inventory
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	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
3	IRWST to components	0.0000	0.000	0.157	0.000	31.50	408.6	2, 11
4	IRWST to elevator	0.0000	0.000	0.157	0.000	29.13	22.4	2, 11
5	IRWST to lower annulus rooms L1&2	0.0000	0.000	0.157	0.000	59.06	6027.8	2, 11
6	IRWST to hot piping	0.0000	0.000	0.157	0.000	59.06	74.1	2, 11
	IRWST Vertical Wall (to Containment Atmosphere)	0.0157	0.000	0.000	0.000	55.28	7197.2	
1	Spreading rooms to IRWST	0.0157	0.000	0.000	0.000	47.24	452.7	3, 11
2	IRWST to SG blowdown (LCQ) HX etc.	0.0157	0.000	0.000	0.000	11.81	211.6	3, 11
3	IRWST to components	0.0157	0.000	0.000	0.000	31.50	408.6	3, 11
4	IRWST to elevator	0.0157	0.000	0.000	0.000	29.13	22.4	3, 11
5	IRWST to lower annulus rooms L1&2	0.0157	0.000	0.000	0.000	59.06	6027.8	3, 11
6	IRWST to hot piping	0.0157	0.000	0.000	0.000	59.06	74.1	3, 11
	IRWST horizontal wall (Heavy Floor)	0.0394	0.000	0.000	0.000	29.53	4693.0	
1	IRWST to lower equipment rooms L1	0.0394	0.000	0.000	0.000	29.53	848.2	6, 11, 12
2	IRWST to lower equipment rooms L2	0.0394	0.000	0.000	0.000	29.53	1498.3	6, 11, 12
3	IRWST to lower equipment rooms L3	0.0394	0.000	0.000	0.000	29.53	1498.3	6, 11, 12
4	IRWST to lower equipment rooms L4	0.0394	0.000	0.000	0.000	29.53	848.2	6, 11, 12
	IRWST horizontal wall (IRWST Ceiling)	0.0394	0.000	0.000	0.000	29.53	4693.0	
1	IRWST to lower equipment rooms L1	0.0394	0.000	0.000	0.000	29.53	848.2	7, 11, 12
2	IRWST to lower equipment rooms L2	0.0394	0.000	0.000	0.000	29.53	1498.3	7, 11, 12
3	IRWST to lower equipment rooms L3	0.0394	0.000	0.000	0.000	29.53	1498.3	7, 11, 12
4	IRWST to lower equipment rooms L4	0.0394	0.000	0.000	0.000	29.53	848.2	7, 11, 12

**Table 6.2.1-4—Containment Heat Sink Inventory
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	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
	IRWST horizontal wall (in contact with IRWST)	0.0000	0.000	0.157	0.000	18.04	1197.0	
1	IRWST to SG blowdown (LCQ) HX etc.	0.0000	0.000	0.157	0.000	19.69	695.8	4, 11
2	IRWST to components	0.0000	0.000	0.157	0.000	15.75	501.2	4, 11
	IRWST horizontal wall (to Containment Atmosphere)	0.0394	0.000	0.000	0.000	18.04	1197.0	
1	IRWST to SG blowdown (LCQ) HX etc.	0.0394	0.000	0.000	0.000	19.69	695.8	5, 11, 12
2	IRWST to components	0.0394	0.000	0.000	0.000	15.75	501.2	5, 11, 12
	IRWST Basemat	0.0000	0.000	0.157	0.000	157.48	6350.7	
1	IRWST to ground	0.0000	0.000	0.157	0.000	157.48	6350.7	2, 11
	Building Basemat (Excluding IRWST)	0.0394	0.000	0.000	0.000	157.48	7747.0	
1	Spreading rooms to ground	0.0394	0.000	0.000	0.000	157.48	1883.7	3, 11
2	Access area to ground	0.0394	0.000	0.000	0.000	157.48	861.1	3, 11
3	SIS pipe penetrations to ground (To SB 1&2)	0.0394	0.000	0.000	0.000	157.48	1550.0	3, 11
4	SIS pipe penetrations to ground (To SB 3&4)	0.0394	0.000	0.000	0.000	157.48	1528.5	3, 11
5	Fuel building penetrations to ground	0.0394	0.000	0.000	0.000	157.48	1851.4	3, 11
6	Elevator shaft penetrations to ground	0.0394	0.000	0.000	0.000	157.48	72.3	3, 11
	Vertical wall to accessible space	0.0157	0.000	0.000	0.000	15.35	89793.2	
1	access to elevator	0.0157	0.000	0.000	0.000	3.94	563.4	8, 11, 12
2	lower annulus rooms L1&2 to elevator	0.0157	0.000	0.000	0.000	3.94	135.0	8, 11, 12
3	lower annulus rooms L1&2 to access	0.0157	0.000	0.000	0.000	3.94	151.6	8, 11, 12
4	lower annulus rooms L3&4 to access	0.0157	0.000	0.000	0.000	3.94	296.7	8, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 4 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
5	lower annulus rooms L1&2 to hot piping	0.0157	0.000	0.000	0.000	5.91	223.9	8, 11, 12
6	lower annulus rooms L3&4 to hot piping	0.0157	0.000	0.000	0.000	5.91	223.9	8, 11, 12
7	middle annulus rooms L1&2 to staircase (south)	0.0157	0.000	0.000	0.000	5.91	3905.4	8, 11, 12
8	middle annulus rooms L1&2 to elevator	0.0157	0.000	0.000	0.000	3.94	1926.1	8, 11, 12
9	Internal wall in middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	5.20	2012.4	8, 11, 12
10	Internal wall in middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	9.84	2047.7	8, 11, 12
11	middle annulus rooms L1&2 to access	0.0157	0.000	0.000	0.000	3.94	191.6	8, 11, 12
12	middle annulus rooms L3&4 to access	0.0157	0.000	0.000	0.000	3.94	176.3	8, 11, 12
13	Internal wall in middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	9.84	2195.4	8, 11, 12
14	middle annulus rooms L1&2 to staircase (north)	0.0157	0.000	0.000	0.000	5.91	2466.2	8, 11, 12
15	middle annulus rooms L3&4 to staircase (north)	0.0157	0.000	0.000	0.000	5.91	2401.2	8, 11, 12
16	middle annulus rooms L1&2 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	28.08	3932.9	8, 11, 12
17	Internal wall in middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	304.4	8, 11, 12
18	Internal wall in middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	29.72	512.4	8, 11, 12
19	middle annulus rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	17.49	1131.5	8, 11, 12
20	middle annulus rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	27.56	1682.6	8, 11, 12
21	middle annulus rooms L1&2 to staircase (north)	0.0157	0.000	0.000	0.000	19.69	271.3	8, 11, 12

**Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 5 of 25**

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
22	middle annulus rooms L1&2 to elevator	0.0157	0.000	0.000	0.000	19.69	1105.9	8, 11, 12
23	Internal wall in middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	380.0	8, 11, 12
24	middle annulus rooms L1&2 to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	3775.5	8, 11, 12
25	upper annulus rooms L1&2 to staircase (north)	0.0157	0.000	0.000	0.000	5.91	864.8	8, 11, 12
26	upper annulus rooms L3&4 to staircase (north)	0.0157	0.000	0.000	0.000	5.91	1186.8	8, 11, 12
27	upper annulus rooms L1&2 to staircase (north)	0.0157	0.000	0.000	0.000	19.69	175.7	8, 11, 12
28	upper annulus rooms L1&2 to elevator	0.0157	0.000	0.000	0.000	3.94	1325.0	8, 11, 12
29	upper annulus rooms L1&2 to elevator	0.0157	0.000	0.000	0.000	19.69	147.3	8, 11, 12
30	upper annulus rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	25.59	155.0	8, 11, 12
31	lower & upper dome L1, 2, 3 & 4 to staircase (south)	0.0157	0.000	0.000	0.000	5.91	626.7	8, 11, 12
32	Internal wall in upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	151.1	8, 11, 12
33	upper annulus rooms L1&2 to staircase (south)	0.0157	0.000	0.000	0.000	5.91	318.8	8, 11, 12
34	upper annulus rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	19.69	338.8	8, 11, 12
35	Internal wall in upper annulus rooms L3&4	0.0157	0.000	0.000	0.000	5.91	2155.8	8, 11, 12
36	Internal wall in lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	17.37	5826.7	8, 11, 12

**Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 6 of 25**

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
37	upper annulus rooms L1&2 to staircase (north)	0.0157	0.000	0.000	0.000	9.84	322.1	8, 11, 12
38	upper annulus rooms L1&2 to elevator	0.0157	0.000	0.000	0.000	9.84	270.0	8, 11, 12
39	Internal wall in upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	9.84	405.6	8, 11, 12
40	upper annulus rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	9.84	280.3	8, 11, 12
41	SG blowdown (LCQ) HX etc. to elevator	0.0157	0.000	0.000	0.000	15.75	89.6	10, 11, 12
42	SG blowdown (LCQ) HX etc. to access	0.0157	0.000	0.000	0.000	3.94	400.3	10, 11, 12
43	SG blowdown (LCQ) HX etc. to lower annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	54.0	10, 11, 12
44	SG blowdown (LCQ) HX etc. to lower annulus rooms L3&4	0.0157	0.000	0.000	0.000	5.91	55.1	10, 11, 12
45	Components to hot piping	0.0157	0.000	0.000	0.000	19.69	829.7	10, 11, 12
46	Components to hot piping	0.0157	0.000	0.000	0.000	5.91	99.9	10, 11, 12
47	lower equipment rooms L1 to staircase (south)	0.0157	0.000	0.000	0.000	23.62	647.9	10, 11, 12
48	lower equipment rooms L1 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1917.3	10, 11, 12
49	lower equipment rooms L1 to components	0.0157	0.000	0.000	0.000	10.80	325.0	10, 11, 12
50	lower equipment rooms L2 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1880.6	10, 11, 12
51	lower equipment rooms L3 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	1909.0	10, 11, 12

**Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 7 of 25**

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
52	lower equipment rooms L4 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	2164.5	10, 11, 12
53	surge line, below to elevator	0.0157	0.000	0.000	0.000	18.81	480.1	10, 11, 12
54	Components to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	377.0	10, 11, 12
55	surge line, below to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	134.1	10, 11, 12
56	surge line, below to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	17.31	98.1	10, 11, 12
57	Components to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	11.81	72.8	10, 11, 12
58	Components to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	15.75	359.9	10, 11, 12
59	Components to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	5.91	183.1	10, 11, 12
60	surge line, below to access	0.0157	0.000	0.000	0.000	15.75	522.6	10, 11, 12
61	reactor cavity to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	454.6	10, 11, 12
62	surge line, below to staircase (north)	0.0157	0.000	0.000	0.000	23.62	308.7	10, 11, 12
63	surge line, below to elevator	0.0157	0.000	0.000	0.000	23.62	130.5	10, 11, 12
64	surge line, below to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	152.2	10, 11, 12
65	reactor cavity to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	180.8	10, 11, 12
66	reactor cavity to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	15.75	248.0	10, 11, 12
67	middle equipment rooms L1 to staircase (south)	0.0157	0.000	0.000	0.000	23.62	609.8	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 8 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
68	middle equipment rooms L1 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1233.7	10, 11, 12
69	middle equipment rooms L2 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1378.0	10, 11, 12
70	middle equipment rooms L3 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	1694.7	10, 11, 12
71	middle equipment rooms L4 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	1495.3	10, 11, 12
72	surge line, below to staircase (north)	0.0157	0.000	0.000	0.000	19.69	370.9	10, 11, 12
73	surge line, below to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	319.0	10, 11, 12
74	surge line, below to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	10.83	452.9	10, 11, 12
75	middle equipment rooms L2 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	283.1	10, 11, 12
76	middle equipment rooms L1 to staircase (south)	0.0157	0.000	0.000	0.000	5.91	90.4	10, 11, 12
77	PZR to staircase (north)	0.0157	0.000	0.000	0.000	19.69	421.1	10, 11, 12
78	middle equipment rooms L1 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	4.21	854.4	10, 11, 12
79	middle equipment rooms L4 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	4.32	932.2	10, 11, 12
80	PZR to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	19.69	459.6	10, 11, 12
81	PZR to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	347.8	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 9 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
82	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	5.91	1679.6	10, 11, 12
83	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	17.41	3410.4	10, 11, 12
84	upper equipment rooms L1&2 to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	2991.4	10, 11, 12
85	upper equipment rooms L1&2 to staircase (south)	0.0157	0.000	0.000	0.000	19.69	176.5	10, 11, 12
86	upper equipment rooms L1&2 to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	9.84	464.9	10, 11, 12
87	upper equipment rooms L3&4 to upper annulus rooms L3&4	0.0157	0.000	0.000	0.000	19.69	2451.2	10, 11, 12
88	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	9.84	320.4	10, 11, 12
89	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	17.44	3457.6	10, 11, 12
90	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	5.91	1679.6	10, 11, 12
91	PZR to upper annulus rooms L3&4	0.0157	0.000	0.000	0.000	19.69	512.3	10, 11, 12
92	PZR to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	716.6	10, 11, 12
93	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	9.84	162.4	10, 11, 12
94	PZR to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	15.75	188.2	10, 11, 12
	Vertical wall to non-accessible space	0.0157	0.000	0.000	0.000	19.72	118744.4	
1	spreading rooms to components	0.0157	0.000	0.000	0.000	23.62	980.8	9, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 10 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
2	spreading rooms to components	0.0157	0.000	0.000	0.000	9.84	983.8	9, 11, 12
3	spreading rooms to lower equipment rooms L4	0.0157	0.000	0.000	0.000	10.73	451.2	9, 11, 12
4	spreading rooms to components	0.0157	0.000	0.000	0.000	15.75	271.0	9, 11, 12
5	Internal wall in SG blowdown (LCQ) HX etc.	0.0157	0.000	0.000	0.000	9.84	136.1	9, 11, 12
6	RPV pit to SG blowdown (LCQ) HX etc.	0.0157	0.000	0.000	0.000	53.54	56.0	9, 11, 12
7	Internal wall in components	0.0157	0.000	0.000	0.000	9.99	3221.9	9, 11, 12
8	RPV pit to components	0.0157	0.000	0.000	0.000	53.54	1136.7	9, 11, 12
9	Internal wall in components	0.0157	0.000	0.000	0.000	7.87	504.8	9, 11, 12
10	lower equipment rooms L1 to RPV pit	0.0157	0.000	0.000	0.000	39.82	700.7	9, 11, 12
11	lower equipment rooms L2 to RPV pit	0.0157	0.000	0.000	0.000	40.27	661.1	9, 11, 12
12	RPV pit to lower equipment rooms L3	0.0157	0.000	0.000	0.000	40.27	661.1	9, 11, 12
13	RPV pit to lower equipment rooms L4	0.0157	0.000	0.000	0.000	40.20	683.3	9, 11, 12
14	RPV pit to surge line, below	0.0157	0.000	0.000	0.000	32.62	289.3	9, 11, 12
15	lower equipment rooms L1 to lower equipment rooms L4	0.0157	0.000	0.000	0.000	9.84	333.3	9, 11, 12
16	lower equipment rooms L2 to surge line, below	0.0157	0.000	0.000	0.000	17.97	1659.6	9, 11, 12
17	lower equipment rooms L3 to surge line, below	0.0157	0.000	0.000	0.000	17.71	1882.2	9, 11, 12
18	lower equipment rooms L4 to components	0.0157	0.000	0.000	0.000	9.84	80.3	9, 11, 12
19	lower equipment rooms L4 to components	0.0157	0.000	0.000	0.000	23.62	370.3	9, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 11 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
20	Internal wall in surge line, below	0.0157	0.000	0.000	0.000	9.84	1665.0	9, 11, 12
21	Internal wall in components	0.0157	0.000	0.000	0.000	15.75	287.0	9, 11, 12
22	lower equipment rooms L1 to reactor cavity	0.0157	0.000	0.000	0.000	23.62	734.5	9, 11, 12
23	lower equipment rooms L2 to reactor cavity	0.0157	0.000	0.000	0.000	23.62	328.1	9, 11, 12
24	reactor cavity to lower equipment rooms L3	0.0157	0.000	0.000	0.000	23.62	328.1	9, 11, 12
25	reactor cavity to lower equipment rooms L4	0.0157	0.000	0.000	0.000	23.62	701.8	9, 11, 12
26	Internal wall in reactor cavity	0.0157	0.000	0.000	0.000	23.62	234.0	9, 11, 12
27	reactor cavity to surge line, below	0.0157	0.000	0.000	0.000	23.62	1773.9	9, 11, 12
28	middle equipment rooms L1 to reactor cavity	0.0157	0.000	0.000	0.000	23.62	6131.1	9, 11, 12
29	middle equipment rooms L2 to reactor cavity	0.0157	0.000	0.000	0.000	23.62	2746.1	9, 11, 12
30	reactor cavity to middle equipment rooms L3	0.0157	0.000	0.000	0.000	23.62	2697.9	9, 11, 12
31	reactor cavity to middle equipment rooms L4	0.0157	0.000	0.000	0.000	23.62	6163.8	9, 11, 12
32	reactor cavity to PZR	0.0157	0.000	0.000	0.000	23.62	1426.6	9, 11, 12
33	Internal wall in equipment rooms L1	0.0157	0.000	0.000	0.000	19.69	909.1	9, 11, 12
34	lower equipment rooms L1 to lower equipment rooms L2	0.0157	0.000	0.000	0.000	19.69	1818.2	9, 11, 12
35	Internal wall in lower equipment rooms L2	0.0157	0.000	0.000	0.000	19.69	1888.9	9, 11, 12
36	lower equipment rooms L2 to reactor cavity	0.0157	0.000	0.000	0.000	15.75	271.3	9, 11, 12
37	Internal wall in lower equipment rooms L3	0.0157	0.000	0.000	0.000	19.69	1888.9	9, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 12 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
38	lower equipment rooms L3 to lower equipment rooms L4	0.0157	0.000	0.000	0.000	19.69	1818.2	9, 11, 12
39	Internal wall in lower equipment rooms L4	0.0157	0.000	0.000	0.000	19.69	1818.2	9, 11, 12
40	lower equipment rooms L4 to middle equipment rooms L4	0.0157	0.000	0.000	0.000	23.62	901.8	9, 11, 12
41	Internal wall in surge line, below	0.0157	0.000	0.000	0.000	15.75	1763.8	9, 11, 12
42	reactor cavity to surge line, below	0.0157	0.000	0.000	0.000	9.84	318.8	9, 11, 12
43	reactor cavity to surge line, below	0.0157	0.000	0.000	0.000	15.75	183.0	9, 11, 12
44	Internal wall in middle equipment rooms L1	0.0157	0.000	0.000	0.000	19.69	1367.9	9, 11, 12
45	middle equipment rooms L1 to middle equipment rooms L2	0.0157	0.000	0.000	0.000	29.57	668.9	9, 11, 12
46	Internal wall in middle equipment rooms L2	0.0157	0.000	0.000	0.000	19.69	1359.3	9, 11, 12
47	middle equipment rooms L2 to surge line, below	0.0157	0.000	0.000	0.000	15.75	1185.8	9, 11, 12
48	Internal wall in middle equipment rooms L3	0.0157	0.000	0.000	0.000	19.69	1361.4	9, 11, 12
49	middle equipment rooms L3 to surge line, below	0.0157	0.000	0.000	0.000	15.75	1227.1	9, 11, 12
50	middle equipment rooms L3 to middle equipment rooms L4	0.0157	0.000	0.000	0.000	29.59	666.7	9, 11, 12
51	Internal wall in middle equipment rooms L4	0.0157	0.000	0.000	0.000	19.69	1372.6	9, 11, 12
52	surge line, below to PZR	0.0157	0.000	0.000	0.000	10.83	1899.0	9, 11, 12
53	Internal wall in middle equipment rooms L1	0.0157	0.000	0.000	0.000	23.62	825.8	9, 11, 12
54	middle equipment rooms L1 to middle equipment rooms L2	0.0157	0.000	0.000	0.000	19.69	665.2	9, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 13 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
55	middle equipment rooms L2 to PZR	0.0157	0.000	0.000	0.000	15.75	192.0	9, 11, 12
56	middle equipment rooms L3 to PZR	0.0157	0.000	0.000	0.000	15.75	914.9	9, 11, 12
57	middle equipment rooms L3 to middle equipment rooms L4	0.0157	0.000	0.000	0.000	19.69	665.2	9, 11, 12
58	Internal wall in middle equipment rooms L4	0.0157	0.000	0.000	0.000	23.62	764.7	9, 11, 12
59	Internal wall in PZR	0.0157	0.000	0.000	0.000	15.75	546.4	9, 11, 12
60	Internal wall in upper equipment rooms L1&2	0.0157	0.000	0.000	0.000	17.85	2436.3	9, 11, 12
61	Internal wall in upper equipment rooms L3&4	0.0157	0.000	0.000	0.000	17.85	2436.3	9, 11, 12
62	upper equipment rooms L3&4 to PZR	0.0157	0.000	0.000	0.000	9.84	1097.9	9, 11, 12
63	SG blowdown (LCQ) HX etc. to elevator	0.0157	0.000	0.000	0.000	15.75	89.6	10, 11, 12
64	SG blowdown (LCQ) HX etc. to access	0.0157	0.000	0.000	0.000	3.94	400.3	10, 11, 12
65	SG blowdown (LCQ) HX etc. to lower annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	54.0	10, 11, 12
66	SG blowdown (LCQ) HX etc. to lower annulus rooms L3&4	0.0157	0.000	0.000	0.000	5.91	55.1	10, 11, 12
67	Components to hot piping	0.0157	0.000	0.000	0.000	19.69	829.7	10, 11, 12
68	Components to hot piping	0.0157	0.000	0.000	0.000	5.91	99.9	10, 11, 12
69	lower equipment rooms L1 to staircase (south)	0.0157	0.000	0.000	0.000	23.62	647.9	10, 11, 12
70	lower equipment rooms L1 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1917.3	10, 11, 12
71	lower equipment rooms L1 to components	0.0157	0.000	0.000	0.000	10.80	325.0	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 14 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
72	lower equipment rooms L2 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1880.6	10, 11, 12
73	lower equipment rooms L3 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	1909.0	10, 11, 12
74	lower equipment rooms L4 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	2164.5	10, 11, 12
75	surge line, below to elevator	0.0157	0.000	0.000	0.000	18.81	480.1	10, 11, 12
76	Components to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	377.0	10, 11, 12
77	surge line, below to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	134.1	10, 11, 12
78	surge line, below to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	17.31	98.1	10, 11, 12
79	Components to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	11.81	72.8	10, 11, 12
80	Components to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	15.75	359.9	10, 11, 12
81	Components to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	5.91	183.1	10, 11, 12
82	surge line, below to access	0.0157	0.000	0.000	0.000	15.75	522.6	10, 11, 12
83	reactor cavity to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	454.6	10, 11, 12
84	surge line, below to staircase (north)	0.0157	0.000	0.000	0.000	23.62	308.7	10, 11, 12
85	surge line, below to elevator	0.0157	0.000	0.000	0.000	23.62	130.5	10, 11, 12
86	surge line, below to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	152.2	10, 11, 12
87	reactor cavity to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	180.8	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 15 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
88	reactor cavity to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	15.75	248.0	10, 11, 12
89	middle equipment rooms L1 to staircase (south)	0.0157	0.000	0.000	0.000	23.62	609.8	10, 11, 12
90	middle equipment rooms L1 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1233.7	10, 11, 12
91	middle equipment rooms L2 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	23.62	1378.0	10, 11, 12
92	middle equipment rooms L3 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	1694.7	10, 11, 12
93	middle equipment rooms L4 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	23.62	1495.3	10, 11, 12
94	surge line, below to staircase (north)	0.0157	0.000	0.000	0.000	19.69	370.9	10, 11, 12
95	surge line, below to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	319.0	10, 11, 12
96	surge line, below to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	10.83	452.9	10, 11, 12
97	middle equipment rooms L2 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	283.1	10, 11, 12
98	middle equipment rooms L1 to staircase (south)	0.0157	0.000	0.000	0.000	5.91	90.4	10, 11, 12
99	PZR to staircase (north)	0.0157	0.000	0.000	0.000	19.69	421.1	10, 11, 12
100	middle equipment rooms L1 to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	4.21	854.4	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 16 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
101	middle equipment rooms L4 to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	4.32	932.2	10, 11, 12
102	PZR to middle annulus rooms L3&4	0.0157	0.000	0.000	0.000	19.69	459.6	10, 11, 12
103	PZR to middle annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	347.8	10, 11, 12
104	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	5.91	1679.6	10, 11, 12
105	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	17.41	3410.4	10, 11, 12
106	upper equipment rooms L1&2 to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	19.69	2991.4	10, 11, 12
107	upper equipment rooms L1&2 to staircase (south)	0.0157	0.000	0.000	0.000	19.69	176.5	10, 11, 12
108	upper equipment rooms L1&2 to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	9.84	464.9	10, 11, 12
109	upper equipment rooms L3&4 to upper annulus rooms L3&4	0.0157	0.000	0.000	0.000	19.69	2451.2	10, 11, 12
110	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	9.84	320.4	10, 11, 12
111	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	17.44	3457.6	10, 11, 12
112	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	5.91	1679.6	10, 11, 12
113	PZR to upper annulus rooms L3&4	0.0157	0.000	0.000	0.000	19.69	512.3	10, 11, 12
114	PZR to upper annulus rooms L1&2	0.0157	0.000	0.000	0.000	15.75	716.6	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 17 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
115	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	9.84	162.4	10, 11, 12
116	PZR to lower & upper dome L1, 2, 3 & 4	0.0157	0.000	0.000	0.000	15.75	188.2	10, 11, 12
	Horizontal wall (floor/ceiling) to accessible space	0.0394	0.000	0.000	0.000	12.52	86714.6	
1	Internal wall in access	0.0394	0.000	0.000	0.000	11.81	257.7	8, 11, 12
2	lower annulus rooms L1&2 to middle annulus rooms L1&2	0.0394	0.000	0.000	0.000	11.81	6412.5	8, 11, 12
3	lower annulus rooms L3&4 to middle annulus rooms L3&4	0.0394	0.000	0.000	0.000	11.81	8140.7	8, 11, 12
4	staircase (south) to hot piping	0.0394	0.000	0.000	0.000	11.81	346.8	8, 11, 12
5	middle annulus rooms L1&2 to hot piping	0.0394	0.000	0.000	0.000	11.81	3084.3	8, 11, 12
6	middle annulus rooms L3&4 to hot piping	0.0394	0.000	0.000	0.000	11.81	2691.0	8, 11, 12
7	Internal wall in middle annulus rooms L1&2	0.0394	0.000	0.000	0.000	9.84	6032.1	8, 11, 12
8	Internal wall in middle annulus rooms L3&4	0.0394	0.000	0.000	0.000	9.84	5369.0	8, 11, 12
9	Internal wall in middle annulus rooms L3&4	0.0394	0.000	0.000	0.000	5.88	8424.1	8, 11, 12
10	middle annulus rooms L1&2 to middle annulus rooms L3&4	0.0394	0.000	0.000	0.000	37.40	394.0	8, 11, 12
11	access to staircase (north)	0.0394	0.000	0.000	0.000	9.84	521.0	8, 11, 12
12	middle annulus rooms L1&2 to access	0.0394	0.000	0.000	0.000	9.84	505.9	8, 11, 12
13	middle annulus rooms L3&4 to access	0.0394	0.000	0.000	0.000	9.84	561.9	8, 11, 12
14	Internal wall in middle annulus rooms L1&2	0.0394	0.000	0.000	0.000	5.91	7746.6	8, 11, 12
15	Internal wall in lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	5.91	187.1	8, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 18 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
16	middle annulus rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	1797.6	8, 11, 12
17	middle annulus rooms L1&2 to staircase (south)	0.0394	0.000	0.000	0.000	19.69	439.4	8, 11, 12
18	middle annulus rooms L3&4 to upper annulus rooms L3&4	0.0394	0.000	0.000	0.000	19.69	3940.5	8, 11, 12
19	middle annulus rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	3607.6	8, 11, 12
20	middle annulus rooms L1&2 to upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	907.0	8, 11, 12
21	Internal wall in upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	9.84	3864.2	8, 11, 12
22	Internal wall in upper annulus rooms L3&4	0.0394	0.000	0.000	0.000	9.84	4628.5	8, 11, 12
23	Internal wall in upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	1420.8	8, 11, 12
24	upper annulus rooms L1&2 to staircase (south)	0.0394	0.000	0.000	0.000	9.84	1055.9	8, 11, 12
25	lower & upper dome L1, 2, 3 & 4 to staircase (north)	0.0394	0.000	0.000	0.000	9.84	312.2	8, 11, 12
26	lower & upper dome L1, 2, 3 & 4 to elevator	0.0394	0.000	0.000	0.000	5.91	144.7	8, 11, 12
27	upper annulus rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	9.84	2411.1	8, 11, 12
28	upper annulus rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	1420.8	8, 11, 12
29	Components to hot piping	0.0394	0.000	0.000	0.000	11.81	121.6	10, 11, 12
30	Components to middle annulus rooms L1&2	0.0394	0.000	0.000	0.000	11.81	102.8	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 19 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
31	Components to staircase (south)	0.0394	0.000	0.000	0.000	11.81	83.4	10, 11, 12
32	Components to middle annulus rooms L3&4	0.0394	0.000	0.000	0.000	10.33	291.7	10, 11, 12
33	Components to middle annulus rooms L1&2	0.0394	0.000	0.000	0.000	37.40	255.1	10, 11, 12
34	Components to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	37.40	284.2	10, 11, 12
35	reactor cavity to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	23.62	5283.4	10, 11, 12
36	middle equipment rooms L1 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	751.3	10, 11, 12
37	middle equipment rooms L2 to upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	73.0	10, 11, 12
38	middle equipment rooms L3 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	183.8	10, 11, 12
39	middle equipment rooms L4 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	386.2	10, 11, 12
40	middle equipment rooms L1 to upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	514.5	10, 11, 12
41	middle equipment rooms L4 to upper annulus rooms L3&4	0.0394	0.000	0.000	0.000	19.69	263.8	10, 11, 12
42	PZR to upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	138.6	10, 11, 12
43	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	9.84	344.4	10, 11, 12
44	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	9.84	366.0	10, 11, 12
45	PZR to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	9.84	645.8	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 20 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
	Horizontal wall (floor/ceiling) to non-accessible space	0.0394	0.000	0.000	0.000	17.28	33020.8	
1	spreading rooms to components	0.0394	0.000	0.000	0.000	27.56	4991.4	9, 11, 12
2	spreading rooms to components	0.0394	0.000	0.000	0.000	5.91	359.5	9, 11, 12
3	Internal wall in components	0.0394	0.000	0.000	0.000	27.56	288.5	9, 11, 12
4	surge line, below to SG blowdown (LCQ) HX etc.	0.0394	0.000	0.000	0.000	11.81	2947.6	9, 11, 12
5	lower equipment rooms L4 to components	0.0394	0.000	0.000	0.000	11.81	1490.6	9, 11, 12
6	lower equipment rooms L1 to components	0.0394	0.000	0.000	0.000	11.81	873.4	9, 11, 12
7	Internal wall in components	0.0394	0.000	0.000	0.000	11.81	1783.4	9, 11, 12
8	RPV pit to reactor cavity	0.0394	0.000	0.000	0.000	11.81	818.1	9, 11, 12
9	lower equipment rooms L1 to reactor cavity	0.0394	0.000	0.000	0.000	23.62	477.9	9, 11, 12
10	lower equipment rooms L2 to reactor cavity	0.0394	0.000	0.000	0.000	26.77	58.1	9, 11, 12
11	lower equipment rooms L3 to surge line, below	0.0394	0.000	0.000	0.000	34.65	58.1	9, 11, 12
12	reactor cavity to lower equipment rooms L4	0.0394	0.000	0.000	0.000	23.62	602.8	9, 11, 12
13	Internal wall in surge line, below	0.0394	0.000	0.000	0.000	11.81	2436.9	9, 11, 12
14	reactor cavity to surge line, below	0.0394	0.000	0.000	0.000	26.77	185.1	9, 11, 12
15	reactor cavity to components	0.0394	0.000	0.000	0.000	23.62	368.1	9, 11, 12
16	lower equipment rooms L4 to middle equipment rooms L4	0.0394	0.000	0.000	0.000	5.91	665.0	9, 11, 12
17	Internal wall in surge line, below	0.0394	0.000	0.000	0.000	5.91	2346.5	9, 11, 12
18	reactor cavity to surge line, below	0.0394	0.000	0.000	0.000	5.91	187.1	9, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 21 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
19	middle equipment rooms L3 to PZR	0.0394	0.000	0.000	0.000	19.69	102.0	9, 11, 12
20	Internal wall in PZR	0.0394	0.000	0.000	0.000	19.69	866.3	9, 11, 12
21	Internal wall in upper equipment rooms L3&4	0.0394	0.000	0.000	0.000	5.91	47.4	9, 11, 12
22	Internal wall in PZR	0.0394	0.000	0.000	0.000	9.84	977.4	9, 11, 12
23	Components to hot piping	0.0394	0.000	0.000	0.000	11.81	121.6	10, 11, 12
24	Components to middle annulus rooms L1&2	0.0394	0.000	0.000	0.000	11.81	102.8	10, 11, 12
25	Components to staircase (south)	0.0394	0.000	0.000	0.000	11.81	83.4	10, 11, 12
26	Components to middle annulus rooms L3&4	0.0394	0.000	0.000	0.000	10.33	291.7	10, 11, 12
27	Components to middle annulus rooms L1&2	0.0394	0.000	0.000	0.000	37.40	255.1	10, 11, 12
28	Components to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	37.40	284.2	10, 11, 12
29	reactor cavity to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	23.62	5283.4	10, 11, 12
30	middle equipment rooms L1 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	751.3	10, 11, 12
31	middle equipment rooms L2 to upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	73.0	10, 11, 12
32	middle equipment rooms L3 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	183.8	10, 11, 12
33	middle equipment rooms L4 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	19.69	386.2	10, 11, 12
34	middle equipment rooms L1 to upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	514.5	10, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 22 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
35	middle equipment rooms L4 to upper annulus rooms L3&4	0.0394	0.000	0.000	0.000	19.69	263.8	10, 11, 12
36	PZR to upper annulus rooms L1&2	0.0394	0.000	0.000	0.000	19.69	138.6	10, 11, 12
37	upper equipment rooms L1&2 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	9.84	344.4	10, 11, 12
38	upper equipment rooms L3&4 to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	9.84	366.0	10, 11, 12
39	PZR to lower & upper dome L1, 2, 3 & 4	0.0394	0.000	0.000	0.000	9.84	645.8	10, 11, 12
	Thick steel	0.0079	1.575	0.000	0.000	0.00	26584.6	
1	Components to hot piping	0.0079	11.811	0.000	0.000	0.00	86.1	1, 11, 12
2	lower & upper dome L1, 2, 3 & 4 to RB annulus	0.0079	1.969	0.000	0.000	0.00	613.5	1, 11, 12
3	Internal steel in lower & upper dome L1, 2, 3 & 4	0.0079	1.528	0.000	0.000	0.00	20912.1	1, 11, 12
4	Internal steel in lower & upper dome L1, 2, 3 & 4	0.0079	1.461	0.000	0.000	0.00	4972.9	1, 11, 12
	Medium steel	0.0079	0.339	0.000	0.000	0.00	142411.3	
1	Internal steel in components	0.0079	0.339	0.000	0.000	0.00	255.3	1, 11, 12
2	Internal steel in IRWST	0.0079	0.339	0.000	0.000	0.00	643.7	1, 11, 12
3	Internal steel in SG blowdown (LCQ) HX etc.	0.0079	0.339	0.000	0.000	0.00	27.3	1, 11, 12
4	Internal steel in access	0.0079	0.339	0.000	0.000	0.00	484.3	1, 11, 12
5	Internal steel in lower annulus rooms L3&4	0.0079	0.339	0.000	0.000	0.00	405.2	1, 11, 12
6	Internal steel in hot piping	0.0079	0.339	0.000	0.000	0.00	380.1	1, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 23 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
7	Internal steel in lower annulus rooms L1&2	0.0079	0.339	0.000	0.000	0.00	392.6	1, 11, 12
8	Internal steel in lower equipment rooms L3	0.0079	0.339	0.000	0.000	0.00	4287.5	1, 11, 12
9	Internal steel in lower equipment rooms L4	0.0079	0.339	0.000	0.000	0.00	4656.1	1, 11, 12
10	Internal steel in lower equipment rooms L1	0.0079	0.339	0.000	0.000	0.00	4656.1	1, 11, 12
11	Internal steel in lower equipment rooms L2	0.0079	0.339	0.000	0.000	0.00	4287.5	1, 11, 12
12	Internal steel in middle annulus rooms L3&4	0.0079	0.339	0.000	0.000	0.00	20763.4	1, 11, 12
13	Internal steel in middle annulus rooms L1&2	0.0079	0.339	0.000	0.000	0.00	19277.2	1, 11, 12
14	Internal steel in surge line, below	0.0079	0.339	0.000	0.000	0.00	525.1	1, 11, 12
15	Internal steel in middle equipment rooms L3	0.0079	0.339	0.000	0.000	0.00	9969.9	1, 11, 12
16	Internal steel in middle equipment rooms L4	0.0079	0.339	0.000	0.000	0.00	9483.2	1, 11, 12
17	Internal steel in middle equipment rooms L1	0.0079	0.339	0.000	0.000	0.00	9483.2	1, 11, 12
18	Internal steel in middle equipment rooms L2	0.0079	0.339	0.000	0.000	0.00	9969.9	1, 11, 12
19	Internal steel in PZR	0.0079	0.339	0.000	0.000	0.00	127.4	1, 11, 12
20	Internal steel in upper equipment rooms L3&4	0.0079	0.339	0.000	0.000	0.00	8808.6	1, 11, 12
21	Internal steel in upper equipment rooms L1&2	0.0079	0.339	0.000	0.000	0.00	8808.6	1, 11, 12
22	Internal steel in upper annulus rooms L3&4	0.0079	0.339	0.000	0.000	0.00	432.7	1, 11, 12
23	Internal steel in lower & upper dome L1, 2, 3 & 4	0.0079	0.339	0.000	0.000	0.00	23623.0	1, 11, 12
24	Internal steel in upper annulus rooms L1&2	0.0079	0.339	0.000	0.000	0.00	617.2	1, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
Sheet 24 of 25

	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
25	Internal steel in staircase (south)	0.0079	0.339	0.000	0.000	0.00	46.2	1, 11, 12
	Thin steel	0.0079	0.059	0.000	0.000	0.00	92998.4	
1	Internal steel in components	0.0079	0.059	0.000	0.000	0.00	288.0	1, 11, 12
2	Internal steel in IRWST	0.0079	0.059	0.000	0.000	0.00	726.6	1, 11, 12
3	Internal steel in SG blowdown (LCQ) HX etc.	0.0079	0.059	0.000	0.000	0.00	46.3	1, 11, 12
4	Internal steel in access	0.0079	0.059	0.000	0.000	0.00	654.9	1, 11, 12
5	Internal steel in lower annulus rooms L3&4	0.0079	0.059	0.000	0.000	0.00	548.2	1, 11, 12
6	Internal steel in hot piping	0.0079	0.059	0.000	0.000	0.00	514.3	1, 11, 12
7	Internal steel in lower annulus rooms L1&2	0.0079	0.059	0.000	0.000	0.00	531.3	1, 11, 12
8	Internal steel in lower equipment rooms L3	0.0079	0.059	0.000	0.000	0.00	2072.1	1, 11, 12
9	Internal steel in lower equipment rooms L4	0.0079	0.059	0.000	0.000	0.00	2250.2	1, 11, 12
10	Internal steel in lower equipment rooms L1	0.0079	0.059	0.000	0.000	0.00	2250.2	1, 11, 12
11	Internal steel in lower equipment rooms L2	0.0079	0.059	0.000	0.000	0.00	2072.1	1, 11, 12
12	Internal steel in middle annulus rooms L3&4	0.0079	0.059	0.000	0.000	0.00	17988.3	1, 11, 12
13	Internal steel in middle annulus rooms L1&2	0.0079	0.059	0.000	0.000	0.00	17291.7	1, 11, 12
14	Internal steel in surge line, below	0.0079	0.059	0.000	0.000	0.00	1179.3	1, 11, 12
15	Internal steel in middle equipment rooms L3	0.0079	0.059	0.000	0.000	0.00	4890.5	1, 11, 12
16	Internal steel in middle equipment rooms L4	0.0079	0.059	0.000	0.000	0.00	4606.6	1, 11, 12
17	Internal steel in middle equipment rooms L1	0.0079	0.059	0.000	0.000	0.00	4607.9	1, 11, 12
18	Internal steel in middle equipment rooms L2	0.0079	0.059	0.000	0.000	0.00	4890.2	1, 11, 12

Table 6.2.1-4—Containment Heat Sink Inventory
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	Description	Thickness, in					Total Surface, ft ²	Notes
		Paint	C-Steel	S-Steel	Air	Concrete		
19	Internal steel in PZR	0.0079	0.059	0.000	0.000	0.00	172.5	1, 11, 12
20	Internal steel in upper equipment rooms L3&4	0.0079	0.059	0.000	0.000	0.00	4470.7	1, 11, 12
21	Internal steel in upper equipment rooms L1&2	0.0079	0.059	0.000	0.000	0.00	4470.7	1, 11, 12
22	Internal steel in upper annulus rooms L3&4	0.0079	0.059	0.000	0.000	0.00	585.6	1, 11, 12
23	Internal steel in lower & upper dome L1, 2, 3 & 4	0.0079	0.059	0.000	0.000	0.00	14992.5	1, 11, 12
24	Internal steel in upper annulus rooms L1&2	0.0079	0.059	0.000	0.000	0.00	835.3	1, 11, 12
25	Internal steel in staircase (south)	0.0079	0.059	0.000	0.000	0.00	62.4	1, 11, 12
				Cumulative Available Surface Area			729,317	11
				Analytical Minimum Surface Area			699,644.3	12

Notes:

1. Constituent heat sinks with internal boundary exposed to containment atmosphere and external boundary insulated for conservatism; heat transfer to one-sided surface area and full thickness heat sink.
2. Constituent heat sinks with internal boundary exposed to IRWST water and external boundary insulated for conservatism; heat transfer to one-sided surface area and full thickness heat sink.
3. Constituent heat sinks that are not credited during design basis accident containment analysis.
4. Constituent heat sinks with internal boundary exposed to IRWST water (submerged IRWST ceiling) and external boundary at heat sink's line of symmetry; heat transfer to one-sided surface area and half-thickness heat sink.

5. Constituent heat sinks with internal boundary exposed to containment atmosphere (non-accessible side of submerged IRWST ceiling) and external boundary at heat sink's line of symmetry; heat transfer to one-sided surface area and half-thickness heat sink.
6. Constituent heat sinks with internal boundary exposed to containment atmosphere and external boundary at heat sink's line of symmetry for heat transfer to the heavy floor; heat transfer to one-sided surface area and half-thickness heat sink (i.e., heavy floor side).
7. Constituent heat sinks with internal boundary exposed to containment atmosphere and external boundary at heat sink's line of symmetry for heat transfer to the bottom side of the heavy floor, or the ceiling over the IRWST; heat transfer to one-sided surface area and half-thickness heat sink.
8. Constituent heat sinks, with internal boundary exposed to containment atmosphere and external boundary at heat sink's line of symmetry, representing the accessible space internal heat sinks; heat transfer to two-sided surface area and half-thickness heat sink.
9. Constituent heat sinks, with internal boundary exposed to containment atmosphere and external boundary at heat sink's line of symmetry, representing the non-accessible space internal heat sinks; heat transfer to two-sided surface area and half-thickness heat sink.
10. Constituent heat sinks, with internal boundary exposed to containment atmosphere and external boundary at heat sink's line of symmetry, representing the boundary between accessible and non-accessible space; heat transfer to one-sided surface area and half-thickness heat sink on the accessible side and, similarly, to the other one-sided surface area and half-thickness of the heat sink on the non-accessible side.
11. The cumulative available surface area represents the total surface area of the constituent heat sinks inside containment.
12. The analytical minimum surface area represents the constituent heat sinks that are exposed to containment atmosphere and credited during design basis accident containment analysis. This value conservatively excludes the IRWST walls and building basemat, which are exposed to containment atmosphere, as well as the surfaces exposed to IRWST water.

Table 6.2.1-5—Containment Initial and Boundary Conditions

Item	Parameter	Analytical Value	
1	Containment Free Volume	2,754,237 ft ³ 78,000 m ³	
2	Initial IRWST Water Volume	50,996 ft ³ 1444 m ³	
3	Initial IRWST Water Temperature	122°F 50°C	
4	Initial Containment Pressure	15.96 psia 1.1 bar	
5	Initial Containment Temperature	Service Compartments	Equipment Compartments
		86°F	131°F
		30°C	55°C
6	Initial Relative Humidity	≤30%	
7	Outside or Ambient Temperature	Insulated boundary condition to maximize containment temperature and pressure	