Tabular Listings Associated with Response to Question 06.02.01.03-1g Follow

Table 1: RCS Metal Geometry (SG tubes defined as part of RCS metal)

Table 1 - RCS Metal Geometry (SG tubes defined as part of RCS metal)

* Length units are in feet and area units square feet

R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
1001-001	3-lp HL	100-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	21.538
1001-002	3-lp HL	105-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	21.538
1001-003	3-lp HL	110-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	17.424
1001-004	3-lp HL	115-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	19.122
1081-001	1-lp sg ch	220-010000	0	SS-316	SPHERICAL	5.7907	6.2833	0.241
1081-002	1-lp sg ch	230-010000	0	SS-316	SPHERICAL	5.7907	6.2833	0.241
1082-001	3-lp sg ch	120-010000	0	SS-316	SPHERICAL	5.7907	6.2833	0.723
1082-002	3-lp sg ch	130-010000	0	SS-316	SPHERICAL	5.7907	6.2833	0.723
1091-001	1-lp sg ch	221-010000	0	alloy690	CYLINDRICAL	0.02767	0.05467	12164
1091-002	1-lp sg ch	229-010000	0	alloy690	CYLINDRICAL	0.02767	0.05467	12164
1092-001	3-lp sg ch	121-010000	0	alloy690	CYLINDRICAL	0.02767	0.05467	36492
1092-002	3-lp sg ch	129-010000	0	alloy690	CYLINDRICAL	0.02767	0.05467	36492
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	Cylindrical	0.027675	3.13E-02	27015.487
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	Cylindrical	0.027675	3.13E-02	27015.487
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66

Table 1 - RCS Metal Geometry (SG tubes defined as part of RCS metal)

* Length units are in feet and area units square feet

R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
1401-001	3-lp CL	135-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	9.963
1401-002	3-lp CL	140-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	11.832
1401-003	3-lp CL	145-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	22.416
1401-004	3-lp CL	150-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	19.71
1401-005	3-lp CL	155-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	20.931
1401-006	3-lp CL	160-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	79.365
1701-001	3-lp CLd	165-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	20.196
1701-002	3-lp CLd	170-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	20.196
1701-003	3-lp CLd	175-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	26.097
1701-004	3-lp CLd	180-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	22.419
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	RECTANGULAR	0.19685	150.69	18.106
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	RECTANGULAR	0.19685	50.232	
2001-001	1-lp HL	200-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	7.1795
2001-002	1-lp HL	205-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	7.1795
2001-003	1-lp HL	210-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	5.808
2001-004	1-lp HL	215-010000	0	SS-316	Cylindrical	1.2795	1.53E+00	6.374
2251-001	sngl tube	225-010000	630-010000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2251-002	sngl tube	225-020000	630-020000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2251-003	sngl tube	225-030000	630-030000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2251-004	sngl tube	225-040000	630-040000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2251-005	sngl tube	225-050000	630-050000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
2251-006	sngl tube	225-060000	630-060000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
2251-007	sngl tube	225-070000	630-070000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
2251-008	sngl tube	225-080000	632-010000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
2251-009	sngl tube	225-090000	634-010000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
2251-010	sngl tube	225-100000	636-010000	alloy690	Cylindrical	0.027675	3.13E-02	27015.487
2251-011	sngl tube	225-110000	637-010000	alloy690	Cylindrical	0.027675	3.13E-02	27015.487
2251-012	sngl tube	225-120000	635-010000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319
2251-013	sngl tube	225-130000	633-010000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319
2251-014	sngl tube	225-140000	631-070000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319

Table 1 - RCS Metal Geometry (SG tubes defined as part of RCS metal)

* Length units are in feet and area units square feet

R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
2251-015	sngl tube	225-150000	631-060000	alloy690	Cylindrical	0.027675	3.13E-02	30907.319
2251-016	sngl tube	225-160000	631-050000	alloy690	Cylindrical	0.027675	3.13E-02	23181.781
2251-017	sngl tube	225-170000	631-040000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2251-018	sngl tube	225-180000	631-030000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2251-019	sngl tube	225-190000	631-020000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2251-020	sngl tube	225-200000	631-010000	alloy690	Cylindrical	0.027675	3.13E-02	15453.66
2401-001	1-lp CL suc	235-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	3.321
2401-002	1-lp CL suc	240-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	3.944
2401-003	1-lp CL suc	245-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	7.472
2401-004	1-lp CL suc	250-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	6.57
2401-005	1-lp CL suc	255-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	6.977
2401-006	1-lp CL suc	260-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	26.455
2701-001	1-lp CL dis	265-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	6.732
2701-002	1-lp CL dis	270-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	6.732
2701-003	1-lp CL dis	275-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	8.699
2701-004	1-lp CL dis	280-010000	0	SS-316	Cylindrical	0.027675	3.13E-02	7.473
101-001	RPV head	94-010000	0	alloy600	Rectangular	0.025	183.12	
101-002	RPV head	90-010000	0	SA-508	Rectangular	0.973	9.68	
102-001	RPV head flange	90-010000	0	alloy600	Cylindrical	7.628	9.983	3.05
103-001	RPV nozzle	10-010000	0	alloy600	Cylindrical	7.772	9.015	5.91
103-002	RPV nozzle	12-010000	0	alloy600	Cylindrical	7.772	9.015	5.38
104-001	RPV int shell	12-010000	0	alloy600	Cylindrical	7.989	8.013	0.36
104-002	RPV int shell	14-010000	0	alloy600	Cylindrical	7.989	8.835	8.06
104-003	RPV int shell	16-010000	0	alloy600	Cylindrical	7.989	8.835	7.07
105-001	RPV lower shell	16-010000	0	alloy600	Cylindrical	7.989	8.013	2.58
105-002	RPV lower shell	18-010000	0	alloy600	Cylindrical	7.989	8.77	1.83
106-001	RPV lower hd	18-010000	0	alloy600	Rectangular	0.025	46.53	
106-002	RPV lower hd	20-010000	0	SA-508	Rectangular	0.531	161.77	
201-001	core barrel	10-010000	86-010000	SS-316	Cylindrical	6.831	6.841	5.03
201-002	core barrel	12-010000	84-010000	SS-316	Cylindrical	6.831	6.851	5.74
201-003	core barrel	14-010000	80-040000	SS-316	Cylindrical	6.831	6.871	4.43

Table 1 - RCS Metal Geometry (SG tubes defined as part of RCS metal)

* Length units are in feet and area units square feet

R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
201-004	core barrel	14-010000	80-030000	SS-316	Cylindrical	6.831	6.901	3.33
201-005	core barrel	16-010000	80-020000	SS-316	Cylindrical	6.831	6.9415	3.68
201-006	core barrel	16-010000	80-010000	SS-316	Cylindrical	6.831	6.982	4.38
202-001	low sup plate	22-010000	0	SS-316	Cylindrical	0.115	0.202	1706.86
203-001	fl dis dvce	22-010000	0	SS-316	Rectangular	0.025	642.96	
204-001	HR	24-010000	80-010000	SS-316	Cylindrical	6.179	6.189	1.661
204-002	HR	26-010000	80-010000	SS-316	Cylindrical	6.179	6.199	1.773
204-003	HR	28-010000	80-010000	SS-316	Cylindrical	6.179	6.219	1.773
204-004	HR	30-010000	80-010000	SS-316	Cylindrical	6.179	6.254	1.308
204-005	HR	32-010000	80-010000	SS-316	Cylindrical	6.179	6.3095	1.308
204-006	HR	34-010000	80-010000	SS-316	Cylindrical	6.179	6.365	1.308
204-007	HR	36-010000	80-020000	SS-316	Cylindrical	6.179	6.4	1.308
204-008	HR	38-010000	80-020000	SS-316	Cylindrical	6.179	6.42	1.308
204-009	HR	40-010000	80-020000	SS-316	Cylindrical	6.179	6.43	1.308
204-010	HR	42-010000	80-020000	SS-316	Cylindrical	6.179	6.44	1.308
204-011	HR	44-010000	80-020000	SS-316	Cylindrical	6.179	6.44	1.308
204-012	HR	46-010000	80-020000	SS-316	Cylindrical	6.179	6.44	1.308
204-013	HR	48-010000	80-020000	SS-316	Cylindrical	6.179	6.44	1.308
204-014	HR	50-010000	80-030000	SS-316	Cylindrical	6.179	6.44	1.308
204-015	HR	52-010000	80-030000	SS-316	Cylindrical	6.179	6.44	1.308
204-016	HR	54-010000	80-030000	SS-316	Cylindrical	6.179	6.44	1.21
204-017	HR	56-010000	80-030000	SS-316	Cylindrical	6.179	6.44	1.21
204-018	HR	58-010000	80-030000	SS-316	Cylindrical	6.179	6.44	1.21
204-019	HR	60-010000	80-030000	SS-316	Cylindrical	6.179	6.44	1.21
204-020	HR	62-010000	80-040000	SS-316	Cylindrical	6.179	6.44	1.21
204-021	HR	64-010000	80-040000	SS-316	Cylindrical	6.179	6.44	1.21
204-022	HR	66-010000	80-040000	SS-316	Cylindrical	6.179	6.44	1.21
204-023	HR	68-010000	80-040000	SS-316	Cylindrical	6.179	6.44	1.21
204-024	HR	70-010000	80-040000	SS-316	Cylindrical	6.179	6.44	1.21
204-025	HR	72-010000	80-040000	SS-316	Cylindrical	6.179	6.44	0.77
204-026	HR	74-010000	80-040000	SS-316	Cylindrical	6.179	6.44	0.77
204-027	HR	76-010000	80-040000	SS-316	Cylindrical	6.179	6.44	0.77

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* Length units are in feet and area units square feet

R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
204-028	HR	78-010000	80-040000	SS-316	Cylindrical	6.179	6.44	2.603
205-001	UPR core plt	84-010000	0	SS-316	Cylindrical	0.287	0.345	144.83
206-001	LMP	84-010000	0	SS-316	Cylindrical	0.099	0.129	218.96
206-002	LMP	86-010000	0	SS-316	Cylindrical	0.099	0.129	103.65
207-001	UPR sup plt	86-010000	92-010000	SS-316	Rectangular	0.613	302.86	
208-001	CRGA	84-010000	0	SS-316	Cylindrical	0.339	0.363	1193.84
208-002	CRGA	86-010000	0	SS-316	Cylindrical	0.339	0.363	565.13
208-003	CRGA	92-010000	0	SS-316	Cylindrical	0.339	0.363	1123.2
4001-001	pzr srg	400-010000	0	SA-508	Cylindrical	0.53395	6.67E-01	89.895
4101-001	pzr srg	410-010000	0	SA-508	Cylindrical	4.60302	5.09E+00	5.0853
4101-002	pzr srg	410-020000	0	SA-508	Cylindrical	4.60302	5.09E+00	5.0853
4101-003	pzr srg	410-030000	0	SA-508	Cylindrical	4.60302	5.09E+00	5.0853
4101-004	pzr srg	410-040000	0	SA-508	Cylindrical	4.60302	5.09E+00	5.0853
4101-005	pzr srg	410-050000	0	SA-508	Cylindrical	4.60302	5.09E+00	5.0853
4101-006	pzr srg	410-060000	0	SA-508	Cylindrical	4.60302	5.09E+00	5.0853
4201-001	prz hd	408-010000	0	SA-508	Spherical	4.66864	5.0853	0.4125
4301-001	prz upr hd	412-010000	0	SA-508	Spherical	4.66864	5.0853	0.41338
R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
301-001	FUEL ASS	0	24-010000	Fuel	Cylindrical	0	1.34E-02	45049.12
301-002	FUEL ASS	0	26-010000	Fuel	Cylindrical	0	1.34E-02	48087.33
301-003	FUEL ASS	0	28-010000	Fuel	Cylindrical	0	1.34E-02	48087.33
301-004	FUEL ASS	0	30-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-005	FUEL ASS	0	32-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-006	FUEL ASS	0	34-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-007	FUEL ASS	0	36-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-008	FUEL ASS	0	38-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-009	FUEL ASS	0	40-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-010	FUEL ASS	0	42-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-011	FUEL ASS	0	44-010000	Fuel	Cylindrical	0	1.34E-02	35480.56

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R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
301-012	FUEL ASS	0	46-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-013	FUEL ASS	0	48-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-014	FUEL ASS	0	50-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-015	FUEL ASS	0	52-010000	Fuel	Cylindrical	0	1.34E-02	35480.56
301-016	FUEL ASS	0	54-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-017	FUEL ASS	0	56-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-018	FUEL ASS	0	58-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-019	FUEL ASS	0	60-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-020	FUEL ASS	0	62-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-021	FUEL ASS	0	64-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-022	FUEL ASS	0	66-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-023	FUEL ASS	0	68-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-024	FUEL ASS	0	70-010000	Fuel	Cylindrical	0	1.34E-02	32826.5
301-025	FUEL ASS	0	72-010000	Fuel	Cylindrical	0	1.34E-02	20883.24
301-026	FUEL ASS	0	74-010000	Fuel	Cylindrical	0	1.34E-02	20883.24
301-027	FUEL ASS	0	76-010000	Fuel	Cylindrical	0	1.34E-02	20883.24
301-028	FUEL ASS	0	78-010000	Fuel	Cylindrical	0	1.34E-02	85907.64
301-001	Fuel Cladding	0	24-010000	cladding	Cylindrical	1.46E-02	1.56E-02	45049.12
301-002	Fuel Cladding	0	26-010000	cladding	Cylindrical	1.46E-02	1.56E-02	48087.33
301-003	Fuel Cladding	0	28-010000	cladding	Cylindrical	1.46E-02	1.56E-02	48087.33
301-004	Fuel Cladding	0	30-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-005	Fuel Cladding	0	32-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-006	Fuel Cladding	0	34-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-007	Fuel Cladding	0	36-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-008	Fuel Cladding	0	38-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-009	Fuel Cladding	0	40-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-010	Fuel Cladding	0	42-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-011	Fuel Cladding	0	44-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-012	Fuel Cladding	0	46-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-013	Fuel Cladding	0	48-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-014	Fuel Cladding	0	50-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56
301-015	Fuel Cladding	0	52-010000	cladding	Cylindrical	1.46E-02	1.56E-02	35480.56

Table 1 - RCS Metal Geometry (SG tubes defined as part of RCS metal)

* Length units are in feet and area units square feet

R5/M2	Heat Structure	Associated Control Volume		Metal	Geometry	R_1 or	R_2 or Area*	Length or
Heat Slab #	Description	Left Side	Right Side	Material		Thickness*		Spherical Frac*
301-016	Fuel Cladding	0	54-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-017	Fuel Cladding	0	56-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-018	Fuel Cladding	0	58-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-019	Fuel Cladding	0	60-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-020	Fuel Cladding	0	62-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-021	Fuel Cladding	0	64-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-022	Fuel Cladding	0	66-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-023	Fuel Cladding	0	68-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-024	Fuel Cladding	0	70-010000	cladding	Cylindrical	1.46E-02	1.56E-02	32826.5
301-025	Fuel Cladding	0	72-010000	cladding	Cylindrical	1.46E-02	1.56E-02	20883.24
301-026	Fuel Cladding	0	74-010000	cladding	Cylindrical	1.46E-02	1.56E-02	20883.24
301-027	Fuel Cladding	0	76-010000	cladding	Cylindrical	1.46E-02	1.56E-02	20883.24
301-028	Fuel Cladding	0	78-010000	cladding	Cylindrical	1.46E-02	1.56E-02	85907.64

Table 2: SG Metal Geometry

Table 2 - SG Metal Geometry

* Length units are in feet and area units square feet

R5/M2 Heat Slab #	Heat Structure Description	Associated Control Volume Left Side	Right Side	Metal Material	Geometry	R_1 or Thickness*	R_2 or Area*	Length or Spherical Frac*
1542-001	1-lp sep	641-010000	639-010000	SS-316	CYLINDRICAL	0.4341	0.4478	185.2
1552-001	sg sep	640-010000	623-010000	SS-316	CYLINDRICAL	0.4341	0.4478	238.92
1601-001	sg sep	642-010000	645-010000	SS-316	CYLINDRICAL	0.5495	0.5939	382.55
1621-001	sg sep	660-010000	660-010000	SS-316	RECTANGULAR	0.6759	94.72	
1641-001	sg sep	645-010000	642-010000	SS-316	CYLINDRICAL	0.2969	0.3177	46.822
1641-002	sg sep	650-010000	650-010000	SS-316	CYLINDRICAL	0.2969	0.3177	26.603
1801-001	1-lp sg sh	625-020000	0	SA-508	CYLINDRICAL	5.9055	6.2369	12.946
1801-002	1-lp sg sh	625-030000	0	SA-508	CYLINDRICAL	5.9055	6.2369	13.161
1801-003	1-lp sg sh	625-040000	0	SA-508	CYLINDRICAL	5.9055	6.2369	9.5712
1802-001	1-lp sg sh	625-010000	0	SA-508	CYLINDRICAL	7.0959	7.5158	5.906
1803-001	1-lp sg sh	645-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	7.218
1803-002	1-lp sg sh	623-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	3.955
1803-003	1-lp sg sh	639-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	3.709
1803-004	1-lp sg sh	650-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	4.15
1803-005	1-lp sg sh	660-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	4.938
1804-001	1-lp sg sh	670-010000	0	SA-508	CYLINDRICAL	8.0381	8.4613	5.702
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	RECTANGULAR	0.08202	96.811	
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	RECTANGULAR	0.06234	29.377	
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	RECTANGULAR	0.06234	29.377	
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	RECTANGULAR	0.09843	29.377	
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	RECTANGULAR	0.09843	29.377	
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	RECTANGULAR	0.09843	29.377	
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	RECTANGULAR	0.09843	29.377	
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	RECTANGULAR	0.09843	29.377	
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	RECTANGULAR	0.09843	29.377	
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	RECTANGULAR	0.09843	29.377	
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	RECTANGULAR	0.09843	29.377	
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	RECTANGULAR	0.09843	29.377	
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	RECTANGULAR	0.09843	29.377	
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	RECTANGULAR	0.09843	29.377	
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	RECTANGULAR	0.09843	29.377	

Table 2 - SG Metal Geometry

* Length units are in feet and area units square feet

R5/M2 Heat Slab #	Heat Structure Description	Associated Control Volume Left Side	Right Side	Metal Material	Geometry	R_1 or Thickness*	R_2 or Area*	Length or Spherical Frac*
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	RECTANGULAR	0.09843	29.377	
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	RECTANGULAR	0.09843	29.377	
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	RECTANGULAR	0.09843	29.377	
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	RECTANGULAR	0.09843	29.377	
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	RECTANGULAR	0.09843	29.377	
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	RECTANGULAR	0.09843	29.377	
6241-001	DC sleeve	624-040000	625-040000	SS-316	Cylindrical	5.8005	5.84E+00	4.7856
6241-002	DC sleeve	624-030000	625-030000	SS-316	Cylindrical	5.8005	5.84E+00	6.5803
6241-003	DC sleeve	624-020000	625-020000	SS-316	Cylindrical	5.8005	5.84E+00	4.7856
6241-004	DC sleeve	624-010000	625-010000	SS-316	Cylindrical	5.8005	5.84E+00	4.6405
6301-001	hot DC	630-010000	625-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6301-002	hot DC	630-020000	625-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6301-003	hot DC	630-030000	625-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6301-004	hot DC	630-040000	625-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6301-005	hot DC	630-050000	625-030000	SS-316	Cylindrical	5.5118	5.55E+00	1.7947
6301-006	hot DC	630-060000	625-030000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6301-007	hot DC	630-070000	625-030000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6301-008	hot DC	632-010000	625-020000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6301-009	hot DC	634-010000	625-020000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6301-010	hot DC	636-010000	625-010000	SS-316	Cylindrical	5.5118	5.55E+00	2.0915
6301-011	hot DC	638-010000	625-010000	SS-316	Cylindrical	5.5118	5.55E+00	3.2453
6311-001	cold DC	631-010000	624-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6311-002	cold DC	631-020000	624-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6311-003	cold DC	631-030000	624-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6311-004	cold DC	631-040000	624-040000	SS-316	Cylindrical	5.5118	5.55E+00	1.1964
6311-005	cold DC	631-050000	624-030000	SS-316	Cylindrical	5.5118	5.55E+00	1.7947
6311-006	cold DC	631-060000	624-030000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6311-007	cold DC	631-070000	624-030000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6311-008	cold DC	633-010000	624-020000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6311-009	cold DC	635-010000	624-020000	SS-316	Cylindrical	5.5118	5.55E+00	2.3928
6311-010	cold DC	637-010000	624-010000	SS-316	Cylindrical	5.5118	5.55E+00	2.0915
6311-011	cold DC	638-010000	624-010000	SS-316	Cylindrical	5.5118	5.55E+00	3.2453

Table 2 - SG Metal Geometry

* Length units are in feet and area units square feet

R5/M2 Heat Slab #	Heat Structure Description	Associated Control Volume Left Side	Right Side	Metal Material	Geometry	R_1 or Thickness*	R_2 or Area*	Length or Spherical Frac*
1543-001	sg sep	741-010000	739-010000	SS-316	CYLINDRICAL	0.4341	0.4478	555.61
1553-001	sg sep	740-010000	723-010000	SS-316	CYLINDRICAL	0.4341	0.4478	716.78
1602-001	sg sep	742-010000	745-010000	SS-316	CYLINDRICAL	0.5495	0.5939	1147.7
1622-001	sg sep	760-010000	760-010000	SS-316	RECTANGULAR	0.6759	284.16	
1642-001	sg sep	745-010000	742-010000	SS-316	CYLINDRICAL	0.2969	0.3177	140.47
1642-002	sg sep	750-010000	750-010000	SS-316	CYLINDRICAL	0.2969	0.3177	79.81
1901-001	3-lp sg sh	725-020000	0	SA-508	CYLINDRICAL	5.9055	6.2369	38.839
1901-002	3-lp sg sh	725-030000	0	SA-508	CYLINDRICAL	5.9055	6.2369	39.482
1901-003	3-lp sg sh	725-040000	0	SA-508	CYLINDRICAL	5.9055	6.2369	28.714
1902-001	3-lp sg sh	725-010000	0	SA-508	CYLINDRICAL	7.0959	7.5158	17.718
1903-001	3-lp sg sh	745-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	21.654
1903-002	3-lp sg sh	723-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	11.865
1903-003	3-lp sg sh	739-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	11.127
1903-004	3-lp sg sh	750-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	12.45
1903-005	3-lp sg sh	760-010000	0	SA-508	CYLINDRICAL	8.0381	8.458	14.814
1904-001	3-lp sg sh	770-010000	0	SA-508	CYLINDRICAL	8.0381	8.4613	17.106
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	RECTANGULAR	0.08202	290.43	19.106
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	RECTANGULAR	0.06234	88.131	20.106
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	RECTANGULAR	0.06234	88.131	21.106
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	RECTANGULAR	0.09843	88.131	22.106
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	RECTANGULAR	0.09843	88.131	23.106
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	RECTANGULAR	0.09843	88.131	24.106
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	RECTANGULAR	0.09843	88.131	25.106
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	RECTANGULAR	0.09843	88.131	26.106
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	RECTANGULAR	0.09843	88.131	27.106
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	RECTANGULAR	0.09843	88.131	28.106
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	RECTANGULAR	0.09843	88.131	29.106
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	RECTANGULAR	0.09843	88.131	30.106
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	RECTANGULAR	0.09843	88.131	31.106
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	RECTANGULAR	0.09843	88.131	32.106
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	RECTANGULAR	0.09843	88.131	33.106

Table 2 - SG Metal Geometry

* Length units are in feet and area units square feet

R5/M2 Heat Slab #	Heat Structure Description	Associated Control Volume Left Side	Right Side	Metal Material	Geometry	R_1 or Thickness*	R_2 or Area*	Length or Spherical Frac*
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	RECTANGULAR	0.09843	88.131	34.106
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	RECTANGULAR	0.09843	88.131	35.106
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	RECTANGULAR	0.09843	88.131	36.106
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	RECTANGULAR	0.09843	88.131	37.106
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	RECTANGULAR	0.09843	88.131	38.106
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	RECTANGULAR	0.09843	88.131	39.106
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	Cylindrical	5.8005	5.84E+00	40.106
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	Cylindrical	5.8005	5.84E+00	41.106
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	Cylindrical	5.8005	5.84E+00	14.3568
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	Cylindrical	5.8005	5.84E+00	13.9215
7301-001	3-lp DC	730-010000	725-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7301-002	3-lp DC	730-020000	725-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7301-003	3-lp DC	730-030000	725-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7301-004	3-lp DC	730-040000	725-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7301-005	3-lp DC	730-050000	725-030000	SS-316	Cylindrical	5.5118	5.55E+00	5.3841
7301-006	3-lp DC	730-060000	725-030000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7301-007	3-lp DC	730-070000	725-030000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7301-008	3-lp DC	732-010000	725-020000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7301-009	3-lp DC	734-010000	725-020000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7301-010	3-lp DC	736-010000	725-010000	SS-316	Cylindrical	5.5118	5.55E+00	6.2745
7301-011	3-lp DC	738-010000	725-010000	SS-316	Cylindrical	5.5118	5.55E+00	9.7359
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	Cylindrical	5.5118	5.55E+00	3.5892
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	Cylindrical	5.5118	5.55E+00	5.3841
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	Cylindrical	5.5118	5.55E+00	7.1784
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	Cylindrical	5.5118	5.55E+00	6.2745
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	Cylindrical	5.5118	5.55E+00	9.7359

Table 3: RCS Metal Stored Energy (t= 0 seconds)

Table 3 - RCS Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	64.1	625.71
1001-002	3-lp HL	64.1	625.7
1001-003	3-lp HL	64.1	625.7
1001-004	3-lp HL	64.1	625.69
1081-001	1-lp sg ch	64.1	625.76
1081-002	1-lp sg ch	63.3	564.86
1082-001	3-lp sg ch	64.1	625.76
1082-002	3-lp sg ch	63.3	564.85
1091-001	1-lp sg ch	64.9	625.73
1091-002	1-lp sg ch	63.8	564.85
1092-001	3-lp sg ch	64.9	625.73
1092-002	3-lp sg ch	63.8	564.84
1251-001	3-lp SG tube	64.2	587.17
1251-002	3-lp SG tube	64.2	585.79
1251-003	3-lp SG tube	64.2	584.49
1251-004	3-lp SG tube	64.1	583.12
1251-005	3-lp SG tube	64.1	581.73
1251-006	3-lp SG tube	64.1	579.71
1251-007	3-lp SG tube	64.0	577.48
1251-008	3-lp SG tube	64.0	575.33
1251-009	3-lp SG tube	64.0	573.44
1251-010	3-lp SG tube	63.9	571.98
1251-011	3-lp SG tube	63.9	571
1251-012	3-lp SG tube	63.9	569.53
1251-013	3-lp SG tube	63.9	568.48
1251-014	3-lp SG tube	63.8	567.56
1251-015	3-lp SG tube	63.8	566.32
1251-016	3-lp SG tube	63.8	564.19
1251-017	3-lp SG tube	63.7	560.77
1251-018	3-lp SG tube	63.7	557.45
1251-019	3-lp SG tube	63.6	553.5
1251-020	3-lp SG tube	63.5	548.75

Table 3 - RCS Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.3	564.78
1401-002	3-lp CL	63.3	564.78
1401-003	3-lp CL	63.3	564.78
1401-004	3-lp CL	63.3	564.78
1401-005	3-lp CL	63.3	564.77
1401-006	3-lp CL	63.3	565.16
1701-001	3-lp CLd	63.3	565.47
1701-002	3-lp CLd	63.3	565.47
1701-003	3-lp CLd	63.3	565.47
1701-004	3-lp CLd	63.3	565.46
1905-001	3-lp sg sh	64.3	595.55
1805-001	1-lp sg sh	64.3	595.55
2001-001	1-lp HL	64.1	625.7
2001-002	1-lp HL	64.1	625.7
2001-003	1-lp HL	64.1	625.7
2001-004	1-lp HL	64.1	625.69
2251-001	sngl tube	64.2	587.17
2251-002	sngl tube	64.2	585.79
2251-003	sngl tube	64.2	584.49
2251-004	sngl tube	64.1	583.13
2251-005	sngl tube	64.1	581.73
2251-006	sngl tube	64.1	579.72
2251-007	sngl tube	64.0	577.48
2251-008	sngl tube	64.0	575.34
2251-009	sngl tube	64.0	573.44
2251-010	sngl tube	63.9	571.98
2251-011	sngl tube	63.9	571
2251-012	sngl tube	63.9	569.53
2251-013	sngl tube	63.9	568.48
2251-014	sngl tube	63.8	567.56
2251-015	sngl tube	63.8	566.32
2251-016	sngl tube	63.8	564.19

Table 3 - RCS Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	63.7	560.78
2251-018	sngl tube	63.7	557.46
2251-019	sngl tube	63.6	553.51
2251-020	sngl tube	63.5	548.76
2401-001	1-lp CL suc	63.3	564.79
2401-002	1-lp CL suc	63.3	564.79
2401-003	1-lp CL suc	63.3	564.79
2401-004	1-lp CL suc	63.3	564.78
2401-005	1-lp CL suc	63.3	564.78
2401-006	1-lp CL suc	63.3	565.16
2701-001	1-lp CL dis	63.3	565.71
2701-002	1-lp CL dis	63.3	565.71
2701-003	1-lp CL dis	63.3	565.71
2701-004	1-lp CL dis	63.3	565.71
101-001	RPV head	63.6	565.61
101-002	RPV head	65.5	565.32
102-001	RPV head flange	63.6	565.32
103-001	RPV nozzle	63.6	565.56
103-002	RPV nozzle	63.6	565.54
104-001	RPV int shell	63.6	565.54
104-002	RPV int shell	63.6	565.57
104-003	RPV int shell	63.6	565.58
105-001	RPV lower shell	63.6	565.58
105-002	RPV lower shell	63.6	565.59
106-001	RPV lower hd	63.6	565.59
106-002	RPV lower hd	65.5	565.61
201-001	core barrel	63.7	595.89
201-002	core barrel	63.7	595.53
201-003	core barrel	63.3	565.81
201-004	core barrel	63.3	565.64
201-005	core barrel	63.3	565.55
201-006	core barrel	63.3	565.5

Table 3 - RCS Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	63.3	565.58
203-001	fl dis dvce	63.3	565.58
204-001	HR	63.3	565.48
204-002	HR	63.3	565.99
204-003	HR	63.3	566.9
204-004	HR	63.3	567.83
204-005	HR	63.4	568.95
204-006	HR	63.4	570.26
204-007	HR	63.4	571.78
204-008	HR	63.4	573.4
204-009	HR	63.4	575.12
204-010	HR	63.5	576.87
204-011	HR	63.5	578.68
204-012	HR	63.5	580.53
204-013	HR	63.5	582.41
204-014	HR	63.6	584.33
204-015	HR	63.6	586.08
204-016	HR	63.6	587.64
204-017	HR	63.6	589.1
204-018	HR	63.7	590.46
204-019	HR	63.7	591.72
204-020	HR	63.7	593.02
204-021	HR	63.7	593.99
204-022	HR	63.7	594.83
204-023	HR	63.7	595.52
204-024	HR	63.7	596.06
204-025	HR	63.7	596.33
204-026	HR	63.7	596.52
204-027	HR	63.7	596.65
204-028	HR	63.7	595.85
205-001	UPR core plt	64.1	625.86
206-001	LMP	64.1	625.86
206-002	LMP	64.1	625.85

Table 3 - RCS Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.7	596.56
208-001	CRGA	64.1	625.86
208-002	CRGA	64.1	625.85
208-003	CRGA	63.3	566.63
4001-001	pzr srg	67.1	627.9
4101-001	pzr srg	67.6	646.64
4101-002	pzr srg	67.7	651.9
4101-003	pzr srg	67.7	653.51
4101-004	pzr srg	67.8	655.06
4101-005	pzr srg	67.8	655.04
4101-006	pzr srg	67.8	655.02
4201-001	prz hd	67.5	643.25
4301-001	prz upr hd	67.8	656.21
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	45.4	565.54
301-002	FUEL ASS	47.3	801.65
301-003	FUEL ASS	48.0	926.96
301-004	FUEL ASS	48.5	1036.36
301-005	FUEL ASS	48.8	1125.53
301-006	FUEL ASS	49.1	1206.33
301-007	FUEL ASS	49.2	1283.41
301-008	FUEL ASS	49.4	1351.96
301-009	FUEL ASS	49.5	1411.37
301-010	FUEL ASS	49.6	1459.56
301-011	FUEL ASS	49.6	1496.34
301-012	FUEL ASS	49.7	1521.27
301-013	FUEL ASS	49.7	1534.05
301-014	FUEL ASS	49.7	1534.44
301-015	FUEL ASS	49.7	1522.46
301-016	FUEL ASS	49.6	1499.48

Table 3 - RCS Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	49.6	1467.03
301-018	FUEL ASS	49.5	1424.76
301-019	FUEL ASS	49.4	1373.19
301-020	FUEL ASS	49.3	1312.89
301-021	FUEL ASS	49.2	1245.36
301-022	FUEL ASS	49.0	1174.8
301-023	FUEL ASS	48.7	1094.5
301-024	FUEL ASS	48.4	1011.39
301-025	FUEL ASS	48.0	938.72
301-026	FUEL ASS	47.8	887.39
301-027	FUEL ASS	47.5	832.98
301-028	FUEL ASS	45.9	626.11
301-001	Fuel Cladding	30.9	565.54
301-002	Fuel Cladding	32.0	801.65
301-003	Fuel Cladding	32.6	926.96
301-004	Fuel Cladding	33.1	1036.36
301-005	Fuel Cladding	33.5	1125.53
301-006	Fuel Cladding	33.9	1206.33
301-007	Fuel Cladding	34.3	1283.41
301-008	Fuel Cladding	34.6	1351.96
301-009	Fuel Cladding	34.9	1411.37
301-010	Fuel Cladding	35.1	1459.56
301-011	Fuel Cladding	35.3	1496.34
301-012	Fuel Cladding	35.4	1521.27
301-013	Fuel Cladding	35.5	1534.05
301-014	Fuel Cladding	35.5	1534.44
301-015	Fuel Cladding	35.4	1522.46
301-016	Fuel Cladding	35.3	1499.48
301-017	Fuel Cladding	35.2	1467.03
301-018	Fuel Cladding	35	1424.76
301-019	Fuel Cladding	34.7	1373.19
301-020	Fuel Cladding	34.4	1312.89
301-021	Fuel Cladding	34.1	1245.36

Table 3 - RCS Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	Fuel Cladding	33.8	1174.8
301-023	Fuel Cladding	33.4	1094.5
301-024	Fuel Cladding	33	1011.39
301-025	Fuel Cladding	32.6	938.72
301-026	Fuel Cladding	32.4	887.39
301-027	Fuel Cladding	32.1	832.98
301-028	Fuel Cladding	31.2	626.11

Table 4: RCS Wall Film Conditions (t= 0 seconds)

Table 4 - RCS Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	625.71	625.71	2.0628	0
1001-002	3-lp HL	105-010000	0	SS-316	625.7	625.7	2.0631	0
1001-003	3-lp HL	110-010000	0	SS-316	625.7	625.7	2.0632	0
1001-004	3-lp HL	115-010000	0	SS-316	625.69	625.69	2.0633	0
1081-001	1-lp sg ch	220-010000	0	SS-316	625.76	625.76	0.305	0
1081-002	1-lp sg ch	230-010000	0	SS-316	564.86	564.86	0.2839	0
1082-001	3-lp sg ch	120-010000	0	SS-316	625.76	625.76	0.3049	0
1082-002	3-lp sg ch	130-010000	0	SS-316	564.85	564.85	0.2838	0
1091-001	1-lp sg ch	221-010000	0	alloy690	625.73	625.73	1.9525	0
1091-002	1-lp sg ch	229-010000	0	alloy690	564.85	564.85	1.8174	0
1092-001	3-lp sg ch	121-010000	0	alloy690	625.73	625.73	1.9519	0
1092-002	3-lp sg ch	129-010000	0	alloy690	564.84	564.84	1.8168	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	606.08	569.53	1.9454	0.3874
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	603.32	569.45	1.9332	0.3959
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	600.73	569.36	1.923	0.4046
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	598.24	569.04	1.9136	2.3481
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	595.07	569.31	1.9062	1.9998
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	591.21	569.01	1.8971	1.7576
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	587.53	568.14	1.8854	1.6772
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	584.2	567.09	1.8739	1.6664
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	581.27	566.16	1.8638	1.6522
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	578.99	565.47	1.8554	1.6258
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	577.09	565.34	1.8497	1.4448
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	574.94	564.51	1.8447	0.2234
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	573.17	564.12	1.8399	0.248
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	571.63	563.77	1.8356	0.2577
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	570.05	562.86	1.8318	0.2674
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	568.24	560.43	1.8286	0.2663
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	565.95	555.96	1.8264	0.2644
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	563.59	551.75	1.8242	0.2626
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	560.78	546.74	1.8217	0.2606

Table 4 - RCS Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	557.39	540.72	1.8193	0.2582
1401-001	3-lp CL	135-010000	0	SS-316	564.78	564.78	1.9205	0
1401-002	3-lp CL	140-010000	0	SS-316	564.78	564.78	1.9205	0
1401-003	3-lp CL	145-010000	0	SS-316	564.78	564.78	1.9205	0
1401-004	3-lp CL	150-010000	0	SS-316	564.78	564.78	1.9205	0
1401-005	3-lp CL	155-010000	0	SS-316	564.77	564.77	1.9206	0
1401-006	3-lp CL	160-010000	0	SS-316	565.16	565.16	1.7192	0
1701-001	3-lp CLd	165-010000	0	SS-316	565.47	565.47	1.9168	0
1701-002	3-lp CLd	170-010000	0	SS-316	565.47	565.47	1.9164	0
1701-003	3-lp CLd	175-010000	0	SS-316	565.47	565.47	1.9165	0
1701-004	3-lp CLd	180-010000	0	SS-316	565.46	565.46	1.9165	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	623.16	567.65	0.3049	0.2838
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	623.16	567.65	0.305	0.2839
2001-001	1-lp HL	200-010000	0	SS-316	625.7	625.7	2.0634	0
2001-002	1-lp HL	205-010000	0	SS-316	625.7	625.7	2.0637	0
2001-003	1-lp HL	210-010000	0	SS-316	625.7	625.7	2.0638	0
2001-004	1-lp HL	215-010000	0	SS-316	625.69	625.69	2.0638	0
2251-001	sngl tube	225-010000	630-010000	alloy690	606.09	569.54	1.946	0.3874
2251-002	sngl tube	225-020000	630-020000	alloy690	603.33	569.46	1.9338	0.3959
2251-003	sngl tube	225-030000	630-030000	alloy690	600.73	569.36	1.9235	0.4046
2251-004	sngl tube	225-040000	630-040000	alloy690	598.25	569.04	1.9141	2.3477
2251-005	sngl tube	225-050000	630-050000	alloy690	595.08	569.31	1.9067	1.9996
2251-006	sngl tube	225-060000	630-060000	alloy690	591.22	569.02	1.8977	1.7582
2251-007	sngl tube	225-070000	630-070000	alloy690	587.54	568.14	1.8859	1.6772
2251-008	sngl tube	225-080000	632-010000	alloy690	584.21	567.09	1.8745	1.6663
2251-009	sngl tube	225-090000	634-010000	alloy690	581.28	566.16	1.8644	1.6521
2251-010	sngl tube	225-100000	636-010000	alloy690	578.99	565.47	1.8559	1.6258
2251-011	sngl tube	225-110000	637-010000	alloy690	577.1	565.34	1.8502	1.4446
2251-012	sngl tube	225-120000	635-010000	alloy690	574.94	564.51	1.8453	0.2235
2251-013	sngl tube	225-130000	633-010000	alloy690	573.18	564.13	1.8404	0.248
2251-014	sngl tube	225-140000	631-070000	alloy690	571.64	563.78	1.8361	0.2578

Table 4 - RCS Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	570.05	562.86	1.8324	0.2674
2251-016	sngl tube	225-160000	631-050000	alloy690	568.24	560.43	1.8292	0.2663
2251-017	sngl tube	225-170000	631-040000	alloy690	565.96	555.96	1.8269	0.2644
2251-018	sngl tube	225-180000	631-030000	alloy690	563.59	551.75	1.8248	0.2627
2251-019	sngl tube	225-190000	631-020000	alloy690	560.79	546.75	1.8222	0.2606
2251-020	sngl tube	225-200000	631-010000	alloy690	557.4	540.73	1.8198	0.2583
2401-001	1-lp CL suc	235-010000	0	SS-316	564.79	564.79	1.9211	0
2401-002	1-lp CL suc	240-010000	0	SS-316	564.79	564.79	1.9211	0
2401-003	1-lp CL suc	245-010000	0	SS-316	564.79	564.79	1.921	0
2401-004	1-lp CL suc	250-010000	0	SS-316	564.78	564.78	1.9211	0
2401-005	1-lp CL suc	255-010000	0	SS-316	564.78	564.78	1.9211	0
2401-006	1-lp CL suc	260-010000	0	SS-316	565.16	565.16	1.9194	0
2701-001	1-lp CL dis	265-010000	0	SS-316	565.71	565.71	1.9174	0
2701-002	1-lp CL dis	270-010000	0	SS-316	565.71	565.71	1.9173	0
2701-003	1-lp CL dis	275-010000	0	SS-316	565.71	565.71	1.9173	0
2701-004	1-lp CL dis	280-010000	0	SS-316	565.71	565.71	1.9173	0
101-001	RPV head	94-010000	0	alloy600	565.61	565.61	0.0018	0
101-002	RPV head	90-010000	0	SA-508	565.32	565.32	0.0109	0
102-001	RPV head flange	90-010000	0	alloy600	565.32	565.32	0.0109	0
103-001	RPV nozzle	10-010000	0	alloy600	565.56	565.56	0.0239	0
103-002	RPV nozzle	12-010000	0	alloy600	565.54	565.54	1.5071	0
104-001	RPV int shell	12-010000	0	alloy600	565.54	565.54	1.5071	0
104-002	RPV int shell	14-010000	0	alloy600	565.57	565.57	1.0869	0
104-003	RPV int shell	16-010000	0	alloy600	565.58	565.58	1.0868	0
105-001	RPV lower shell	16-010000	0	alloy600	565.58	565.58	1.0868	0
105-002	RPV lower shell	18-010000	0	alloy600	565.59	565.59	0.9671	0
106-001	RPV lower hd	18-010000	0	alloy600	565.59	565.59	0.9671	0
106-002	RPV lower hd	20-010000	0	SA-508	565.61	565.61	0.0021	0
201-001	core barrel	10-010000	86-010000	SS-316	574.19	617.02	0.0638	0.0604
201-002	core barrel	12-010000	84-010000	SS-316	566.04	624.18	1.5071	0.4307
201-003	core barrel	14-010000	80-040000	SS-316	565.57	566.04	1.0869	1.308

Table 4 - RCS Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	565.57	565.7	1.0869	1.3078
201-005	core barrel	16-010000	80-020000	SS-316	565.58	565.53	1.0868	1.3077
201-006	core barrel	16-010000	80-010000	SS-316	565.58	565.42	1.0868	1.3076
202-001	low sup plate	22-010000	0	SS-316	565.58	565.58	0.8064	0
203-001	fl dis dvce	22-010000	0	SS-316	565.58	565.58	0.8064	0
204-001	HR	24-010000	80-010000	SS-316	565.54	565.42	1.7761	1.3076
204-002	HR	26-010000	80-010000	SS-316	566.56	565.43	1.7763	1.3076
204-003	HR	28-010000	80-010000	SS-316	568.4	565.44	1.7783	1.3076
204-004	HR	30-010000	80-010000	SS-316	570.26	565.46	1.781	1.3076
204-005	HR	32-010000	80-010000	SS-316	572.51	565.48	1.7841	1.3076
204-006	HR	34-010000	80-010000	SS-316	575.14	565.5	1.7885	1.3076
204-007	HR	36-010000	80-020000	SS-316	578.1	565.63	1.7933	1.3077
204-008	HR	38-010000	80-020000	SS-316	581.34	565.65	1.7987	1.3077
204-009	HR	40-010000	80-020000	SS-316	584.8	565.68	1.8048	1.3077
204-010	HR	42-010000	80-020000	SS-316	588.3	565.71	1.8131	1.3077
204-011	HR	44-010000	80-020000	SS-316	591.93	565.74	1.8215	1.3077
204-012	HR	46-010000	80-020000	SS-316	595.65	565.76	1.83	1.3077
204-013	HR	48-010000	80-020000	SS-316	599.41	565.79	1.8386	1.3077
204-014	HR	50-010000	80-030000	SS-316	603.09	566	1.8444	1.3078
204-015	HR	52-010000	80-030000	SS-316	606.58	566.02	1.8514	1.3078
204-016	HR	54-010000	80-030000	SS-316	609.71	566.05	1.8578	1.3078
204-017	HR	56-010000	80-030000	SS-316	612.63	566.07	1.8648	1.3078
204-018	HR	58-010000	80-030000	SS-316	615.34	566.1	1.8721	1.3078
204-019	HR	60-010000	80-030000	SS-316	617.85	566.12	1.8788	1.3078
204-020	HR	62-010000	80-040000	SS-316	620.12	566.47	1.8851	1.308
204-021	HR	64-010000	80-040000	SS-316	622.06	566.49	1.8926	1.308
204-022	HR	66-010000	80-040000	SS-316	623.73	566.5	1.899	1.308
204-023	HR	68-010000	80-040000	SS-316	625.1	566.51	1.9045	1.308
204-024	HR	70-010000	80-040000	SS-316	626.19	566.52	1.909	1.308
204-025	HR	72-010000	80-040000	SS-316	626.72	566.52	1.912	1.308
204-026	HR	74-010000	80-040000	SS-316	627.11	566.53	1.9139	1.308
204-027	HR	76-010000	80-040000	SS-316	627.37	566.53	1.9151	1.308

Table 4 - RCS Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	625.77	566.51	1.9105	1.308
205-001	UPR core plt	84-010000	0	SS-316	625.86	625.86	0.4307	0
206-001	LMP	84-010000	0	SS-316	625.86	625.86	0.4307	0
206-002	LMP	86-010000	0	SS-316	625.85	625.85	0.0032	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	621.22	571.79	0.0487	0.0437
208-001	CRGA	84-010000	0	SS-316	625.86	625.86	0.4307	0
208-002	CRGA	86-010000	0	SS-316	625.85	625.85	0.0032	0
208-003	CRGA	92-010000	0	SS-316	566.63	566.63	0.0033	0
4001-001	pzr srg	400-010000	0	SA-508	627.9	627.9	0.0041	0
4101-001	pzr srg	410-010000	0	SA-508	646.64	646.64	0.001	0
4101-002	pzr srg	410-020000	0	SA-508	651.9	651.9	0.0025	0
4101-003	pzr srg	410-030000	0	SA-508	653.51	653.51	0.0028	0
4101-004	pzr srg	410-040000	0	SA-508	655.06	655.06	0.9796	0
4101-005	pzr srg	410-050000	0	SA-508	655.04	655.04	5.3284	0
4101-006	pzr srg	410-060000	0	SA-508	655.02	655.02	8.0145	0
4201-001	prz hd	408-010000	0	SA-508	643.25	643.25	0.00004	0
4301-001	prz upr hd	412-010000	0	SA-508	656.21	656.21	0.00001	0
R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table 4 - RCS Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		565.54		1.7721
301-002	Fuel Cladding	0	26-010000	cladding		574.49		1.7724
301-003	Fuel Cladding	0	28-010000	cladding		582.78		1.7744
301-004	Fuel Cladding	0	30-010000	cladding		589.99		1.7771
301-005	Fuel Cladding	0	32-010000	cladding		596.45		1.7802
301-006	Fuel Cladding	0	34-010000	cladding		602.92		1.7845
301-007	Fuel Cladding	0	36-010000	cladding		609.3		1.7894
301-008	Fuel Cladding	0	38-010000	cladding		615.51		1.7948
301-009	Fuel Cladding	0	40-010000	cladding		621.43		1.8009
301-010	Fuel Cladding	0	42-010000	cladding		626.82		1.8091
301-011	Fuel Cladding	0	44-010000	cladding		631.8		1.8175
301-012	Fuel Cladding	0	46-010000	cladding		636.3		1.826
301-013	Fuel Cladding	0	48-010000	cladding		640.27		1.8346
301-014	Fuel Cladding	0	50-010000	cladding		643.67		1.8403
301-015	Fuel Cladding	0	52-010000	cladding		646.3		1.8473

Table 4 - RCS Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		648.05		1.8537
301-017	Fuel Cladding	0	56-010000	cladding		649.21		1.8607
301-018	Fuel Cladding	0	58-010000	cladding		649.73		1.868
301-019	Fuel Cladding	0	60-010000	cladding		649.69		1.8746
301-020	Fuel Cladding	0	62-010000	cladding		649.04		1.881
301-021	Fuel Cladding	0	64-010000	cladding		647.73		1.8884
301-022	Fuel Cladding	0	66-010000	cladding		645.89		1.8948
301-023	Fuel Cladding	0	68-010000	cladding		643.52		1.9003
301-024	Fuel Cladding	0	70-010000	cladding		640.68		1.9048
301-025	Fuel Cladding	0	72-010000	cladding		637.88		1.9078
301-026	Fuel Cladding	0	74-010000	cladding		635.66		1.9096
301-027	Fuel Cladding	0	76-010000	cladding		633.18		1.9109
301-028	Fuel Cladding	0	78-010000	cladding		626.11		1.9063

Table 5: RCS Fluid Conditions (t= 0 seconds)

Table 5 - RCS Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.000	625.71	655.84
105-010000	112.108	0.000	625.7	655.8
110-010000	90.692	0.000	625.7	655.78
115-010000	99.530	0.000	625.69	655.73
117-010000	34.487	0.000	625.67	655.56
120-010000	605.616	0.000	625.76	656.28
121-010000	90.006	0.000	625.73	656.02
125-010000	104.546	0.000	621.73	655.9
125-020000	104.546	0.000	617.9	655.77
125-030000	104.546	0.000	614.29	655.64
125-040000	104.546	0.000	610.91	655.52
125-050000	156.828	0.000	606.29	655.35
125-060000	209.092	0.000	600.91	655.13
125-070000	209.092	0.000	596.04	654.87
125-080000	209.092	0.000	591.75	654.62
125-090000	209.092	0.000	587.96	654.36
125-100000	182.764	0.000	585	654.13
125-110000	182.764	0.000	582.33	653.99
125-120000	209.092	0.000	579.59	653.91
125-130000	209.092	0.000	577.22	653.85
125-140000	209.092	0.000	575.16	653.78
125-150000	209.092	0.000	573.27	653.71
125-160000	156.828	0.000	571.74	653.66
125-170000	104.546	0.000	570.44	653.62
125-180000	104.546	0.000	568.89	653.59
125-190000	104.546	0.000	567.07	653.55
125-200000	104.546	0.000	564.84	653.52
129-010000	90.006	0.000	564.84	653.5
130-010000	605.616	0.000	564.85	653.58
132-010000	34.487	0.000	564.78	652.59
135-010000	51.857	0.000	564.78	652.63
140-010000	61.586	0.000	564.78	652.61

Table 5 - RCS Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	0.000	564.78	652.68
150-010000	102.591	0.000	564.78	652.57
155-010000	108.946	0.000	564.77	652.5
160-010000	413.100	0.000	565.16	655.94
165-010000	105.120	0.000	565.47	659.49
170-010000	105.120	0.000	565.47	659.47
175-010000	135.835	0.000	565.47	659.45
180-010000	116.691	0.000	565.46	659.42
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.000	625.7	655.84
205-010000	37.369	0.000	625.7	655.8
210-010000	30.231	0.000	625.7	655.78
215-010000	33.177	0.000	625.69	655.73
217-010000	11.496	0.000	625.67	655.56
220-010000	201.872	0.000	625.76	656.28
221-010000	30.0018	0.000	625.73	656.02
225-010000	34.849	0.000	621.73	655.9
225-020000	34.8487392	0.000	617.9	655.77
225-030000	34.8487392	0.000	614.29	655.64
225-040000	34.8487392	0.000	610.92	655.51
225-050000	52.2760216	0.000	606.3	655.35
225-060000	69.6974784	0.000	600.92	655.13
225-070000	69.6974784	0.000	596.05	654.87
225-080000	69.6974784	0.000	591.76	654.61
225-090000	69.6974784	0.000	587.97	654.36
225-100000	60.921212	0.000	585.01	654.13
225-110000	60.921212	0.000	582.34	653.99
225-120000	69.6974784	0.000	579.6	653.91
225-130000	69.6974784	0.000	577.23	653.84
225-140000	69.6974784	0.000	575.16	653.78
225-150000	69.6974784	0.000	573.28	653.71

Table 5 - RCS Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.2760216	0.000	571.75	653.66
225-170000	34.8487392	0.000	570.44	653.62
225-180000	34.8487392	0.000	568.9	653.58
225-190000	34.8487392	0.000	567.07	653.55
225-200000	34.8487392	0.000	564.85	653.52
229-010000	30.00184	0.000	564.85	653.49
230-010000	201.872	0.000	564.86	653.58
232-010000	11.495763	0.000	564.78	652.59
235-010000	17.286	0.000	564.79	652.63
240-010000	20.529	0.000	564.79	652.61
245-010000	38.892	0.000	564.79	652.68
250-010000	34.197	0.000	564.78	652.56
255-010000	36.315	0.000	564.78	652.5
260-010000	137.700	0.000	565.16	655.93
265-010000	35.040	0.000	565.71	659.49
270-010000	35.040	0.000	565.71	659.47
275-010000	45.278	0.000	565.71	659.45
280-010000	38.897	0.000	565.71	659.42
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.000	565.56	659.84
12-010000	184.160	0.000	565.54	659.57
14-010000	366.488	0.000	565.57	659.88
16-010000	414.895	0.000	565.58	660.04
18-010000	120.792	0.000	565.59	660.2
20-010000	212.629	0.000	565.61	660.38
22-010000	315.096	0.000	565.58	660.05
24-010000	45.438	0.000	565.54	659.51
26-010000	48.504	0.000	566.57	659.21
28-010000	48.504	0.000	568.42	659.16
30-010000	35.789	0.000	570.29	659.12
32-010000	35.789	0.000	572.56	658.98

Table 5 - RCS Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
34-010000	35.789	0.000	575.2	658.95
36-010000	35.789	0.000	578.18	658.91
38-010000	35.789	0.000	581.43	658.77
40-010000	35.789	0.000	584.92	658.74
42-010000	35.789	0.000	588.44	658.7
44-010000	35.789	0.000	592.09	658.56
46-010000	35.789	0.000	595.83	658.52
48-010000	35.789	0.000	599.61	658.48
50-010000	35.789	0.000	603.31	658.34
52-010000	35.789	0.000	606.82	658.3
54-010000	33.109	0.000	609.97	658.27
56-010000	33.109	0.000	612.9	658.12
58-010000	33.109	0.000	615.62	658.09
60-010000	33.109	0.000	618.15	658.06
62-010000	33.109	0.000	620.43	657.91
64-010000	33.109	0.000	622.38	657.87
66-010000	33.109	0.000	624.06	657.84
68-010000	33.109	0.000	625.44	657.69
70-010000	33.109	0.000	626.53	657.66
72-010000	21.064	0.000	627.06	657.63
74-010000	21.064	0.000	627.45	657.49
76-010000	21.051	0.000	627.72	657.47
78-010000	86.638	0.000	626.11	657.42
80-010000	5.964	0.000	565.42	657.73
80-020000	4.483	0.000	565.53	657.66
80-030000	4.951	0.000	565.7	657.59
80-040000	5.894	0.000	566.04	657.51
82-010000	28.768	0.000	565.47	658.67
82-020000	21.625	0.000	565.47	658.59
82-030000	23.882	0.000	565.46	658.52
82-040000	28.430	0.000	565.46	658.44
84-010000	573.893	0.000	625.86	656.99
86-010000	276.840	0.000	625.85	656.95

Table 5 - RCS Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
88-010000	202.853	0.000	565.62	656.87
88-020000	83.659	0.000	565.63	656.96
88-030000	182.966	0.000	565.63	657.04
90-010000	120.233	0.000	565.32	656.85
92-010000	505.835	0.000	566.63	656.87
94-010000	267.973	0.000	565.61	656.79
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	0.000	627.9	655.62
408-010000	161.115	0.000	643.25	655.42
410-010000	395.598	0.000	646.64	655.34
410-020000	395.598	0.000	651.9	655.24
410-030000	395.598	0.000	653.51	655.15
410-040000	395.598	0.576	654.38	656.45
410-050000	395.598	1.000	655.04	655.73
410-060000	395.598	1.000	655.02	655.22
412-010000	161.115	1.000	655.01	656.21

Table 6: SG Metal Stored Energy (t= 0 seconds)

Table 6 - SG Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.2	559.21
1552-001	sg sep	63.2	559.24
1601-001	sg sep	63.2	559.14
1621-001	sg sep	63.2	558.68
1641-001	sg sep	63.2	559.16
1641-002	sg sep	63.2	558.69
1801-001	1-lp sg sh	65.3	558.81
1801-002	1-lp sg sh	65.3	558.58
1801-003	1-lp sg sh	65.3	558.42
1802-001	1-lp sg sh	65.3	558.97
1803-001	1-lp sg sh	65.3	558.95
1803-002	1-lp sg sh	65.3	559.09
1803-003	1-lp sg sh	65.3	559.09
1803-004	1-lp sg sh	65.3	558.69
1803-005	1-lp sg sh	65.3	558.68
1804-001	1-lp sg sh	65.3	558.63
1806-001	1-lp sg sh	65.3	559.3
1807-001	1-lp sg sh	63.2	559.86
1807-002	1-lp sg sh	62.2	494.22
1808-001	1-lp sg sh	63.2	559.99
1808-002	1-lp sg sh	63.2	559.95
1808-003	1-lp sg sh	63.2	559.91
1808-004	1-lp sg sh	63.2	559.84
1808-005	1-lp sg sh	63.2	559.75
1808-006	1-lp sg sh	63.2	559.66
1808-007	1-lp sg sh	63.2	559.57
1808-008	1-lp sg sh	63.2	559.48
1808-009	1-lp sg sh	63.2	559.39
1808-010	1-lp sg sh	62.5	507.83
1808-011	1-lp sg sh	62.6	519.12
1808-012	1-lp sg sh	62.8	528.54
1808-013	1-lp sg sh	62.9	539.25

Table 6 - SG Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	63.1	551.56
1808-015	1-lp sg sh	63.2	557.98
1808-016	1-lp sg sh	63.2	559.3
1808-017	1-lp sg sh	63.2	559.46
1808-018	1-lp sg sh	63.2	559.41
6241-001	DC sleeve	62.6	518.63
6241-002	DC sleeve	62.6	518.47
6241-003	DC sleeve	62.6	518.16
6241-004	DC sleeve	62.6	520.2
6301-001	hot DC	63.2	559.1
6301-002	hot DC	63.2	559.19
6301-003	hot DC	63.2	559.18
6301-004	hot DC	63.2	559.16
6301-005	hot DC	63.2	559.21
6301-006	hot DC	63.2	559.17
6301-007	hot DC	63.2	559.13
6301-008	hot DC	63.2	559.2
6301-009	hot DC	63.2	559.15
6301-010	hot DC	63.2	559.22
6301-011	hot DC	63.2	559.19
6311-001	cold DC	62.1	484.64
6311-002	cold DC	62.2	490.4
6311-003	cold DC	62.3	495.19
6311-004	cold DC	62.3	499.2
6311-005	cold DC	62.4	503.5
6311-006	cold DC	62.5	508.67
6311-007	cold DC	62.5	511.24
6311-008	cold DC	62.5	511.23
6311-009	cold DC	62.5	511.66
6311-010	cold DC	62.6	520.31
6311-011	cold DC	62.6	519.52

Table 6 - SG Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1543-001	sg sep	63.2	559.2
1553-001	sg sep	63.2	559.23
1602-001	sg sep	63.2	559.14
1622-001	sg sep	63.2	558.68
1642-001	sg sep	63.2	559.16
1642-002	sg sep	63.2	558.69
1901-001	3-lp sg sh	65.3	558.8
1901-002	3-lp sg sh	65.3	558.58
1901-003	3-lp sg sh	65.3	558.42
1902-001	3-lp sg sh	65.3	558.97
1903-001	3-lp sg sh	65.3	558.95
1903-002	3-lp sg sh	65.3	559.09
1903-003	3-lp sg sh	65.3	559.08
1903-004	3-lp sg sh	65.3	558.69
1903-005	3-lp sg sh	65.3	558.68
1904-001	3-lp sg sh	65.3	558.62
1906-001	3-lp sg sh	65.3	559.3
1907-001	3-lp sg sh	63.2	559.86
1907-002	3-lp sg sh	62.2	494.23
1908-001	3-lp sg sh	63.2	559.99
1908-002	3-lp sg sh	63.2	559.95
1908-003	3-lp sg sh	63.2	559.89
1908-004	3-lp sg sh	63.2	559.84
1908-005	3-lp sg sh	63.2	559.75
1908-006	3-lp sg sh	63.2	559.66
1908-007	3-lp sg sh	63.2	559.57
1908-008	3-lp sg sh	63.2	559.47
1908-009	3-lp sg sh	63.2	559.39
1908-010	3-lp sg sh	62.5	507.84
1908-011	3-lp sg sh	62.6	519.12
1908-012	3-lp sg sh	62.8	528.54
1908-013	3-lp sg sh	62.9	539.24
1908-014	3-lp sg sh	63.1	551.56

Table 6 - SG Metal Stored Energy (t= 0 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-015	3-lp sg sh	63.2	557.98
1908-016	3-lp sg sh	63.2	559.3
1908-017	3-lp sg sh	63.2	559.45
1908-018	3-lp sg sh	63.2	559.41
7241-001	3-lp DC sleeve	62.6	518.63
7241-002	3-lp DC sleeve	62.6	518.47
7241-003	3-lp DC sleeve	62.6	518.16
7241-004	3-lp DC sleeve	62.6	520.2
7301-001	3-lp DC	63.2	559.09
7301-002	3-lp DC	63.2	559.19
7301-003	3-lp DC	63.2	559.18
7301-004	3-lp DC	63.2	559.16
7301-005	3-lp DC	63.2	559.21
7301-006	3-lp DC	63.2	559.17
7301-007	3-lp DC	63.2	559.13
7301-008	3-lp DC	63.2	559.2
7301-009	3-lp DC	63.2	559.15
7301-010	3-lp DC	63.2	559.22
7301-011	3-lp DC	63.2	559.19
7311-001	3-lp DC cold	62.1	484.65
7311-002	3-lp DC cold	62.2	490.4
7311-003	3-lp DC cold	62.3	495.19
7311-004	3-lp DC cold	62.3	499.2
7311-005	3-lp DC cold	62.4	503.5
7311-006	3-lp DC cold	62.5	508.67
7311-007	3-lp DC cold	62.5	511.24
7311-008	3-lp DC cold	62.5	511.23
7311-009	3-lp DC cold	62.5	511.66
7311-010	3-lp DC cold	62.6	520.31
7311-011	3-lp DC cold	62.6	519.52

Table 7: SG Wall Film Conditions (t= 0 seconds)

Table 7 - SG Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	559.23	559.19	1.889	0.07385
1552-001	sg sep	640-010000	623-010000	SS-316	559.26	559.22	1.9038	0.06486
1601-001	sg sep	642-010000	645-010000	SS-316	559.21	559.08	1.5242	0.0476
1621-001	sg sep	660-010000	660-010000	SS-316	558.68	558.68	0.073	0.07301
1641-001	sg sep	645-010000	642-010000	SS-316	559.12	559.2	0.0578	1.2737
1641-002	sg sep	650-010000	650-010000	SS-316	558.69	558.69	0.0296	0.02959
1801-001	1-lp sg sh	625-020000	0	SA-508	558.81	558.81	0.64	0
1801-002	1-lp sg sh	625-030000	0	SA-508	558.58	558.58	0.6399	0
1801-003	1-lp sg sh	625-040000	0	SA-508	558.42	558.42	0.6396	0
1802-001	1-lp sg sh	625-010000	0	SA-508	558.97	558.97	0.2498	0
1803-001	1-lp sg sh	645-010000	0	SA-508	558.95	558.95	0.0145	0
1803-002	1-lp sg sh	623-010000	0	SA-508	559.09	559.09	0.0627	0
1803-003	1-lp sg sh	639-010000	0	SA-508	559.09	559.09	0.0481	0
1803-004	1-lp sg sh	650-010000	0	SA-508	558.69	558.69	0.0296	0
1803-005	1-lp sg sh	660-010000	0	SA-508	558.68	558.68	0.073	0
1804-001	1-lp sg sh	670-010000	0	SA-508	558.63	558.63	0.0096	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	559.34	559.27	1.6206	0.76445
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	559.86	559.86	0.4559	0.45593
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	494.22	494.22	0.1963	0.19631
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	559.99	559.99	0.8276	0.8276
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	559.95	559.95	1.5527	1.5527
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	559.91	559.91	0.5991	0.59912
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	559.84	559.84	0.6721	0.67213
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	559.75	559.75	0.746	0.74604
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	559.66	559.66	0.8226	0.82259
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	559.57	559.57	0.9036	0.90363
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	559.48	559.48	0.9505	0.95047
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	559.39	559.39	0.9622	0.96219
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	507.83	507.83	0.1981	0.19814
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	519.12	519.12	0.1997	0.19967
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	528.54	528.54	0.201	0.20099

Table 7 - SG Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	539.25	539.25	0.2024	0.20243
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	551.56	551.56	0.2011	0.20112
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	557.98	557.98	0.2294	0.22944
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	559.3	559.3	0.3047	0.30468
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	559.46	559.46	0.8887	0.88868
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	559.41	559.41	0.4104	0.4104
6241-001	DC sleeve	624-040000	625-040000	SS-316	485.46	551.36	0.5849	0.63963
6241-002	DC sleeve	624-030000	625-030000	SS-316	485.03	551.47	0.5845	0.63986
6241-003	DC sleeve	624-020000	625-020000	SS-316	484.28	551.6	0.5842	0.64002
6241-004	DC sleeve	624-010000	625-010000	SS-316	494.93	545.19	0.1798	0.2498
6301-001	hot DC	630-010000	625-040000	SS-316	559.65	558.54	0.4178	0.63963
6301-002	hot DC	630-020000	625-040000	SS-316	559.82	558.56	0.5594	0.63963
6301-003	hot DC	630-030000	625-040000	SS-316	559.81	558.56	0.6609	0.63963
6301-004	hot DC	630-040000	625-040000	SS-316	559.77	558.55	0.711	0.63963
6301-005	hot DC	630-050000	625-030000	SS-316	559.73	558.69	0.78	0.63986
6301-006	hot DC	630-060000	625-030000	SS-316	559.66	558.69	0.8018	0.63986
6301-007	hot DC	630-070000	625-030000	SS-316	559.59	558.68	0.8678	0.63986
6301-008	hot DC	632-010000	625-020000	SS-316	559.53	558.88	0.998	0.64002
6301-009	hot DC	634-010000	625-020000	SS-316	559.44	558.87	1.0589	0.64002
6301-010	hot DC	636-010000	625-010000	SS-316	559.38	559.06	1.483	0.2498
6301-011	hot DC	638-010000	625-010000	SS-316	559.33	559.05	1.2	0.2498
6311-001	cold DC	631-010000	624-040000	SS-316	490.31	479	0.1963	0.5849
6311-002	cold DC	631-020000	624-040000	SS-316	500.73	480.08	0.1981	0.5849
6311-003	cold DC	631-030000	624-040000	SS-316	509.4	480.99	0.1997	0.5849
6311-004	cold DC	631-040000	624-040000	SS-316	516.66	481.75	0.201	0.5849
6311-005	cold DC	631-050000	624-030000	SS-316	524.81	482.16	0.2024	0.58453
6311-006	cold DC	631-060000	624-030000	SS-316	534.14	483.15	0.201	0.58453
6311-007	cold DC	631-070000	624-030000	SS-316	538.77	483.64	0.2001	0.58453
6311-008	cold DC	633-010000	624-020000	SS-316	539.45	482.93	0.1972	0.58416
6311-009	cold DC	635-010000	624-020000	SS-316	540.22	483.02	0.2047	0.58416
6311-010	cold DC	637-010000	624-010000	SS-316	545.62	494.95	0.2539	0.17984
6311-011	cold DC	638-010000	624-010000	SS-316	544.38	494.61	0.2295	0.17984

Table 7 - SG Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	559.22	559.19	1.9051	0.07382
1553-001	sg sep	740-010000	723-010000	SS-316	559.25	559.22	1.9981	0.06501
1602-001	sg sep	742-010000	745-010000	SS-316	559.21	559.08	1.3631	0.04734
1622-001	sg sep	760-010000	760-010000	SS-316	558.68	558.68	0.0729	0.0729
1642-001	sg sep	745-010000	742-010000	SS-316	559.12	559.2	0.0574	1.2742
1642-002	sg sep	750-010000	750-010000	SS-316	558.69	558.69	0.0295	0.02955
1901-001	3-lp sg sh	725-020000	0	SA-508	558.8	558.8	0.64	0
1901-002	3-lp sg sh	725-030000	0	SA-508	558.58	558.58	0.6399	0
1901-003	3-lp sg sh	725-040000	0	SA-508	558.42	558.42	0.6396	0
1902-001	3-lp sg sh	725-010000	0	SA-508	558.97	558.97	0.2498	0
1903-001	3-lp sg sh	745-010000	0	SA-508	558.95	558.95	0.0144	0
1903-002	3-lp sg sh	723-010000	0	SA-508	559.09	559.09	0.0627	0
1903-003	3-lp sg sh	739-010000	0	SA-508	559.08	559.08	0.0479	0
1903-004	3-lp sg sh	750-010000	0	SA-508	558.69	558.69	0.0295	0
1903-005	3-lp sg sh	760-010000	0	SA-508	558.68	558.68	0.0729	0
1904-001	3-lp sg sh	770-010000	0	SA-508	558.62	558.62	0.0096	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	559.34	559.27	1.6493	0.76437
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	559.86	559.86	0.4559	0.45592
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	494.23	494.23	0.1963	0.19629
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	559.99	559.99	0.8271	0.82713
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	559.95	559.95	1.8257	1.8257
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	559.89	559.89	2.5035	2.5035
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	559.84	559.84	0.672	0.67202
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	559.75	559.75	0.746	0.74597
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	559.66	559.66	0.8225	0.82253
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	559.57	559.57	0.9036	0.90357
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	559.47	559.47	0.9504	0.95043
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	559.39	559.39	0.9621	0.96213
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	507.84	507.84	0.1981	0.19811
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	519.12	519.12	0.1996	0.19964
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	528.54	528.54	0.201	0.20096

Table 7 - SG Wall Film Conditions (t= 0 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	539.24	539.24	0.2024	0.2024
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	551.56	551.56	0.2011	0.20109
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	557.98	557.98	0.2294	0.22939
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	559.3	559.3	0.3044	0.30444
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	559.45	559.45	0.8614	0.86143
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	559.41	559.41	0.4103	0.41028
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	485.47	551.36	0.5848	0.63963
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	485.04	551.47	0.5844	0.63986
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	484.28	551.6	0.5841	0.64002
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	494.94	545.19	0.1798	0.24982
7301-001	3-lp DC	730-010000	725-040000	SS-316	559.65	558.54	0.4179	0.63963
7301-002	3-lp DC	730-020000	725-040000	SS-316	559.82	558.56	0.5597	0.63963
7301-003	3-lp DC	730-030000	725-040000	SS-316	559.81	558.56	0.6615	0.63963
7301-004	3-lp DC	730-040000	725-040000	SS-316	559.77	558.55	0.7126	0.63963
7301-005	3-lp DC	730-050000	725-030000	SS-316	559.73	558.69	0.78	0.63986
7301-006	3-lp DC	730-060000	725-030000	SS-316	559.66	558.68	0.8031	0.63986
7301-007	3-lp DC	730-070000	725-030000	SS-316	559.58	558.68	0.8593	0.63986
7301-008	3-lp DC	732-010000	725-020000	SS-316	559.52	558.87	0.9816	0.64002
7301-009	3-lp DC	734-010000	725-020000	SS-316	559.44	558.87	1.0638	0.64002
7301-010	3-lp DC	736-010000	725-010000	SS-316	559.38	559.06	1.5331	0.24982
7301-011	3-lp DC	738-010000	725-010000	SS-316	559.32	559.05	1.1282	0.24982
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	490.31	479	0.1963	0.58482
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	500.73	480.09	0.1981	0.58482
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	509.4	480.99	0.1996	0.58482
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	516.66	481.75	0.201	0.58482
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	524.81	482.17	0.2024	0.58444
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	534.13	483.15	0.201	0.58444
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	538.77	483.64	0.2	0.58444
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	539.45	482.94	0.1972	0.58408
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	540.21	483.02	0.2047	0.58408
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	545.62	494.96	0.2539	0.17982
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	544.38	494.61	0.2295	0.17982

Table 8: SG Fluid Conditions (t= 0 seconds)

Table 8 - SG Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	559.09	559.21
623-010000	366.645	0.000	559.09	559.21
624-010000	155.893	0.000	475.65	559.24
624-020000	43.006	0.000	476.33	559.54
624-030000	59.135	0.000	477.2	559.97
624-040000	43.006	0.000	477.69	560.4
625-010000	180.020	0.000	558.97	559.43
625-020000	73.345	0.000	558.81	559.69
625-030000	100.851	0.000	558.58	560.07
625-040000	73.345	0.000	558.42	560.45
630-010000	70.116	0.279	559.59	560.08
630-020000	70.116	0.426	559.9	560.01
630-030000	70.116	0.518	559.94	559.94
630-040000	70.116	0.555	559.91	559.88
630-050000	105.180	0.702	559.84	559.82
630-060000	140.232	0.782	559.75	559.74
630-070000	140.232	0.826	559.66	559.66
631-010000	70.116	0.000	494.22	560.41
631-020000	70.116	0.000	507.83	560.32
631-030000	70.116	0.000	519.12	560.23
631-040000	70.116	0.000	528.54	560.14
631-050000	105.180	0.000	539.25	560.03
631-060000	140.232	0.012	551.54	559.88
631-070000	140.232	0.140	557.31	559.7
632-010000	140.232	0.850	559.57	559.57
633-010000	140.232	0.228	558.98	559.55
634-010000	140.232	0.866	559.48	559.47
635-010000	140.232	0.465	559.38	559.44
636-010000	86.672	0.864	559.39	559.39
637-010000	86.672	0.697	559.41	559.36
638-010000	609.522	0.853	559.34	559.33
639-010000	635.282	0.001	559.09	559.07

Table 8 - SG Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.853	559.26	559.25
641-010000	117.514	0.869	559.23	559.22
642-010000	320.019	0.853	559.21	559.21
645-010000	1075.296	0.146	559.12	558.9
650-010000	830.204	0.992	558.69	558.59
660-010000	703.676	0.992	558.68	558.66
670-010000	400.000	1.000	558.63	558.58
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	559.09	559.21
723-010000	1099.935	0.000	559.09	559.21
724-010000	467.679	0.000	475.65	559.24
724-020000	129.019	0.000	476.34	559.54
724-030000	177.404	0.000	477.21	559.97
724-040000	129.019	0.000	477.7	560.4
725-010000	540.019	0.000	558.97	559.43
725-020000	220.035	0.000	558.8	559.69
725-030000	302.553	0.000	558.58	560.07
725-040000	220.035	0.000	558.42	560.45
730-010000	210.349	0.278	559.59	560.08
730-020000	210.349	0.426	559.9	560
730-030000	210.349	0.518	559.93	559.94
730-040000	210.349	0.555	559.91	559.88
730-050000	315.541	0.702	559.84	559.82
730-060000	420.697	0.782	559.75	559.74
730-070000	420.697	0.826	559.66	559.66
731-010000	210.349	0.000	494.23	560.41
731-020000	210.349	0.000	507.84	560.32
731-030000	210.349	0.000	519.12	560.23
731-040000	210.349	0.000	528.54	560.14
731-050000	315.541	0.000	539.24	560.03
731-060000	420.697	0.012	551.54	559.88

Table 8 - SG Fluid Conditions (t= 0 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.140	557.31	559.7
732-010000	420.697	0.850	559.57	559.57
733-010000	420.697	0.228	558.98	559.55
734-010000	420.697	0.866	559.47	559.47
735-010000	420.697	0.465	559.38	559.43
736-010000	260.017	0.864	559.39	559.39
737-010000	260.017	0.697	559.41	559.36
738-010000	1828.567	0.853	559.34	559.33
739-010000	1905.846	0.001	559.08	559.07
740-010000	375.926	0.853	559.26	559.25
741-010000	352.543	0.869	559.23	559.22
742-010000	960.056	0.853	559.21	559.21
745-010000	3225.888	0.146	559.12	558.9
750-010000	2490.612	0.992	558.69	558.59
760-010000	2111.028	0.992	558.68	558.66
770-010000	1200.000	1.000	558.62	558.58

Table HLt1-1: HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

Table HLt1-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.7	596.78
1001-002	3-lp HL	63.7	590.97
1001-003	3-lp HL	63.7	593.8
1001-004	3-lp HL	63.8	598.84
1081-001	1-lp sg ch	64.1	623.22
1081-002	1-lp sg ch	63.2	558.67
1082-001	3-lp sg ch	64.1	620.49
1082-002	3-lp sg ch	63.3	563.13
1091-001	1-lp sg ch	62.1	472.06
1091-002	1-lp sg ch	61.5	437.21
1092-001	3-lp sg ch	64.0	578.67
1092-002	3-lp sg ch	63.4	544.92
1251-001	3-lp SG tube	63.6	553.52
1251-002	3-lp SG tube	63.6	552.68
1251-003	3-lp SG tube	63.6	551.5
1251-004	3-lp SG tube	63.5	550.25
1251-005	3-lp SG tube	63.5	548.98
1251-006	3-lp SG tube	63.5	548.7
1251-007	3-lp SG tube	63.5	549.61
1251-008	3-lp SG tube	63.5	549.71
1251-009	3-lp SG tube	63.6	551.93
1251-010	3-lp SG tube	63.6	553.15
1251-011	3-lp SG tube	63.5	546.64
1251-012	3-lp SG tube	63.4	542.56
1251-013	3-lp SG tube	63.3	535.18
1251-014	3-lp SG tube	63.1	527.36
1251-015	3-lp SG tube	63.0	517.98
1251-016	3-lp SG tube	62.8	507.45
1251-017	3-lp SG tube	62.6	499.01
1251-018	3-lp SG tube	62.5	493.69
1251-019	3-lp SG tube	62.5	489.38
1251-020	3-lp SG tube	62.4	486.7

Table HLt1-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.1	549.85
1401-002	3-lp CL	63.1	549.64
1401-003	3-lp CL	63.1	548.61
1401-004	3-lp CL	63.1	548.4
1401-005	3-lp CL	63.1	548.27
1401-006	3-lp CL	63.1	550.63
1701-001	3-lp CLd	63.1	548.45
1701-002	3-lp CLd	63.1	550.27
1701-003	3-lp CLd	63.0	546.27
1701-004	3-lp CLd	63.0	547.86
1905-001	3-lp sg sh	64.0	573.31
1805-001	1-lp sg sh	63.8	567.48
2001-001	1-lp HL	63.9	605.33
2001-002	1-lp HL	63.8	603.05
2001-003	1-lp HL	63.8	601.96
2001-004	1-lp HL	63.8	603.02
2251-001	sngl tube	62.8	509.81
2251-002	sngl tube	62.6	495.18
2251-003	sngl tube	62.4	483.96
2251-004	sngl tube	62.2	476.16
2251-005	sngl tube	62.1	470.23
2251-006	sngl tube	62.0	466.25
2251-007	sngl tube	62.0	463.96
2251-008	sngl tube	62.0	462.78
2251-009	sngl tube	62.0	462.75
2251-010	sngl tube	61.9	457.77
2251-011	sngl tube	61.9	457.36
2251-012	sngl tube	61.9	457.58
2251-013	sngl tube	61.8	452.8
2251-014	sngl tube	61.7	448.64
2251-015	sngl tube	61.6	442.48
2251-016	sngl tube	61.5	434.7

Table HLt1-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	61.3	425.8
2251-018	sngl tube	61.3	423.04
2251-019	sngl tube	61.1	412.55
2251-020	sngl tube	60.8	398.78
2401-001	1-lp CL suc	63.0	546.4
2401-002	1-lp CL suc	63.0	546.45
2401-003	1-lp CL suc	63.0	546.56
2401-004	1-lp CL suc	63.0	546.67
2401-005	1-lp CL suc	63.0	546.86
2401-006	1-lp CL suc	63.1	550.23
2701-001	1-lp CL dis	63.1	553.62
2701-002	1-lp CL dis	63.1	553.68
2701-003	1-lp CL dis	63.1	552.25
2701-004	1-lp CL dis	63.1	553
101-001	RPV head	63.6	564.18
101-002	RPV head	65.4	563
102-001	RPV head flange	63.6	564.49
103-001	RPV nozzle	63.6	564.72
103-002	RPV nozzle	63.6	564.67
104-001	RPV int shell	63.6	564.23
104-002	RPV int shell	63.5	563.27
104-003	RPV int shell	63.5	561.77
105-001	RPV lower shell	63.5	561.44
105-002	RPV lower shell	63.5	560.72
106-001	RPV lower hd	63.5	558.01
106-002	RPV lower hd	65.3	558.72
201-001	core barrel	63.5	581.11
201-002	core barrel	63.5	577.34
201-003	core barrel	63.0	544.81
201-004	core barrel	63.0	544.38
201-005	core barrel	62.9	540.71
201-006	core barrel	62.9	540.58

Table HLt1-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	62.7	523.01
203-001	fl dis dvce	61.6	450.59
204-001	HR	63.0	542.56
204-002	HR	63.0	543.31
204-003	HR	63.0	544.25
204-004	HR	63.0	545.3
204-005	HR	63.0	546.35
204-006	HR	63.0	547.7
204-007	HR	63.1	549.45
204-008	HR	63.1	552.03
204-009	HR	63.1	553.6
204-010	HR	63.2	555.26
204-011	HR	63.2	557.34
204-012	HR	63.2	559.26
204-013	HR	63.3	562.59
204-014	HR	63.3	564.24
204-015	HR	63.3	565.72
204-016	HR	63.3	566.92
204-017	HR	63.3	568.07
204-018	HR	63.4	569.11
204-019	HR	63.4	570.07
204-020	HR	63.4	572.11
204-021	HR	63.4	572.82
204-022	HR	63.4	573.42
204-023	HR	63.4	573.93
204-024	HR	63.4	574.3
204-025	HR	63.4	574.42
204-026	HR	63.4	574.56
204-027	HR	63.4	574.62
204-028	HR	63.4	573.8
205-001	UPR core plt	63.1	550.34
206-001	LMP	62.8	533.71
206-002	LMP	63.1	554.78

Table HLt1-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.3	565.33
208-001	CRGA	62.5	514.17
208-002	CRGA	62.9	537.19
208-003	CRGA	62.3	497.82
4001-001	pzr srg	66.6	607.94
4101-001	pzr srg	67.5	643.83
4101-002	pzr srg	67.6	649.75
4101-003	pzr srg	67.7	651.97
4101-004	pzr srg	67.7	654.12
4101-005	pzr srg	67.8	654.83
4101-006	pzr srg	67.8	654.81
4201-001	prz hd	67.4	638.93
4301-001	prz upr hd	67.8	655.98
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	43.7	411.64
301-002	FUEL ASS	44.4	471.54
301-003	FUEL ASS	44.4	473.02
301-004	FUEL ASS	44.5	478.72
301-005	FUEL ASS	44.5	484.03
301-006	FUEL ASS	44.6	488.38
301-007	FUEL ASS	44.6	493.23
301-008	FUEL ASS	44.7	497.5
301-009	FUEL ASS	44.7	501.73
301-010	FUEL ASS	44.8	504.65
301-011	FUEL ASS	44.8	507.27
301-012	FUEL ASS	44.8	510.58
301-013	FUEL ASS	44.9	513.6
301-014	FUEL ASS	44.9	517.41
301-015	FUEL ASS	44.9	521.37
301-016	FUEL ASS	45.0	526.25

Table HLt1-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	45.4	568.2
301-018	FUEL ASS	45.5	581.49
301-019	FUEL ASS	45.5	582.8
301-020	FUEL ASS	45.5	579.57
301-021	FUEL ASS	45.5	573.62
301-022	FUEL ASS	45.4	566.43
301-023	FUEL ASS	45.3	557.33
301-024	FUEL ASS	45.2	548.34
301-025	FUEL ASS	45.1	540.93
301-026	FUEL ASS	45.1	538.39
301-027	FUEL ASS	45.1	540.13
301-028	FUEL ASS	44.3	465.3
301-001	Fuel Cladding	30.1	411.64
301-002	Fuel Cladding	30.4	471.54
301-003	Fuel Cladding	30.4	473.02
301-004	Fuel Cladding	30.5	478.72
301-005	Fuel Cladding	30.5	484.03
301-006	Fuel Cladding	30.5	488.38
301-007	Fuel Cladding	30.5	493.23
301-008	Fuel Cladding	30.6	497.5
301-009	Fuel Cladding	30.6	501.73
301-010	Fuel Cladding	30.6	504.65
301-011	Fuel Cladding	30.6	507.27
301-012	Fuel Cladding	30.6	510.58
301-013	Fuel Cladding	30.6	513.6
301-014	Fuel Cladding	30.6	517.41
301-015	Fuel Cladding	30.7	521.37
301-016	Fuel Cladding	30.7	526.25
301-017	Fuel Cladding	30.9	568.2
301-018	Fuel Cladding	31.0	581.49
301-019	Fuel Cladding	31.0	582.8
301-020	Fuel Cladding	30.9	579.57
301-021	Fuel Cladding	30.9	573.62

Table HLt1-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	Fuel Cladding	30.9	566.43
301-023	Fuel Cladding	30.8	557.33
301-024	Fuel Cladding	30.8	548.34
301-025	Fuel Cladding	30.8	540.93
301-026	Fuel Cladding	30.7	538.39
301-027	Fuel Cladding	30.8	540.13
301-028	Fuel Cladding	30.4	465.3

Table HLt1-2: HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

Table HLt1-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	459.15	625.68	0.04544	0
1001-002	3-lp HL	105-010000	0	SS-316	422.72	625.68	1.03320	0
1001-003	3-lp HL	110-010000	0	SS-316	440.05	625.68	0.90296	0
1001-004	3-lp HL	115-010000	0	SS-316	471.24	625.67	0.00374	0
1081-001	1-lp sg ch	220-010000	0	SS-316	599.88	625.76	0.00893	0
1081-002	1-lp sg ch	230-010000	0	SS-316	481.94	564.86	0.00778	0
1082-001	3-lp sg ch	120-010000	0	SS-316	586.76	625.76	0.00154	0
1082-002	3-lp sg ch	130-010000	0	SS-316	549.12	564.85	0.00194	0
1091-001	1-lp sg ch	221-010000	0	alloy690	472.04	472.15	0.05628	0
1091-002	1-lp sg ch	229-010000	0	alloy690	372.41	453.27	1.63310	0
1092-001	3-lp sg ch	121-010000	0	alloy690	577.34	579.02	0.00126	0
1092-002	3-lp sg ch	129-010000	0	alloy690	543.75	545.28	0.01119	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	553.33	553.7	0.00171	0.07400
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	552.54	552.84	0.00213	0.07200
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	551.37	551.63	0.00252	0.07100
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	550.14	550.38	0.00290	0.07100
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	548.88	549.09	0.00335	0.07000
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	548.61	548.8	0.00396	0.06800
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	549.52	549.71	0.00463	0.06700
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	549.65	549.76	0.00529	0.05600
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	551.87	551.99	0.00592	0.05800
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	553.07	553.21	0.00650	0.08100
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	546.59	546.7	0.00704	0.05900
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	542.52	542.6	0.00759	0.06400
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	535.16	535.19	0.00818	0.10500
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	527.36	527.34	0.00876	0.12800
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	518	517.94	0.00934	0.12800
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	507.5	507.38	0.00984	0.12900
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	499.07	498.94	0.01019	0.12900
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	493.73	493.64	0.01048	0.12900
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	489.39	489.36	0.01077	0.12900

Table HLt1-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	486.69	486.72	0.01106	0.12900
1401-001	3-lp CL	135-010000	0	SS-316	476.24	564.77	0.01445	0
1401-002	3-lp CL	140-010000	0	SS-316	474.99	564.77	0.01466	0
1401-003	3-lp CL	145-010000	0	SS-316	468.52	564.78	0.01506	0
1401-004	3-lp CL	150-010000	0	SS-316	467.26	564.77	0.01539	0
1401-005	3-lp CL	155-010000	0	SS-316	466.49	564.77	0.01579	0
1401-006	3-lp CL	160-010000	0	SS-316	479.25	565.15	0.01505	0
1701-001	3-lp CLd	165-010000	0	SS-316	464.11	565.46	0.01786	0
1701-002	3-lp CLd	170-010000	0	SS-316	475.55	565.46	0.01831	0
1701-003	3-lp CLd	175-010000	0	SS-316	450.42	565.46	0.02259	0
1701-004	3-lp CLd	180-010000	0	SS-316	460.52	565.46	0.01938	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	534.84	534.97	0.00144	0.00200
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	576.71	446.95	0.00893	0.00800
2001-001	1-lp HL	200-010000	0	SS-316	508.53	625.69	0.10252	0
2001-002	1-lp HL	205-010000	0	SS-316	495.88	625.68	0.10266	0
2001-003	1-lp HL	210-010000	0	SS-316	491.82	625.67	0.05571	0
2001-004	1-lp HL	215-010000	0	SS-316	497.58	625.67	0.05772	0
2251-001	sngl tube	225-010000	630-010000	alloy690	508.57	511.02	0.05402	0.10600
2251-002	sngl tube	225-020000	630-020000	alloy690	494.15	496.21	0.05414	0.10500
2251-003	sngl tube	225-030000	630-030000	alloy690	483.08	484.85	0.05423	0.10600
2251-004	sngl tube	225-040000	630-040000	alloy690	475.4	476.95	0.05423	0.10700
2251-005	sngl tube	225-050000	630-050000	alloy690	469.58	470.93	0.05411	0.10700
2251-006	sngl tube	225-060000	630-060000	alloy690	465.64	466.91	0.05398	0.10800
2251-007	sngl tube	225-070000	630-070000	alloy690	463.33	464.65	0.05385	0.10900
2251-008	sngl tube	225-080000	632-010000	alloy690	462.14	463.46	0.05367	0.09500
2251-009	sngl tube	225-090000	634-010000	alloy690	462.02	463.53	0.05342	0.09600
2251-010	sngl tube	225-100000	636-010000	alloy690	457.03	458.57	0.05326	0.09700
2251-011	sngl tube	225-110000	637-010000	alloy690	456.55	458.21	0.05303	0.09700
2251-012	sngl tube	225-120000	635-010000	alloy690	456.6	458.63	0.05280	0.10200
2251-013	sngl tube	225-130000	633-010000	alloy690	451.67	454.04	0.05273	0.12000
2251-014	sngl tube	225-140000	631-070000	alloy690	447.35	450.06	0.05266	0.13500

Table HLt1-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	441.03	444.08	0.05283	0.13600
2251-016	sngl tube	225-160000	631-050000	alloy690	432.99	436.57	0.05356	0.13800
2251-017	sngl tube	225-170000	631-040000	alloy690	423.77	428.11	0.05512	0.13900
2251-018	sngl tube	225-180000	631-030000	alloy690	420.75	425.62	0.05599	0.14000
2251-019	sngl tube	225-190000	631-020000	alloy690	409.68	415.95	0.06034	0.14200
2251-020	sngl tube	225-200000	631-010000	alloy690	394.9	403.65	0.07524	0.14400
2401-001	1-lp CL suc	235-010000	0	SS-316	461.18	564.77	0.04853	0
2401-002	1-lp CL suc	240-010000	0	SS-316	461.36	564.77	0.04857	0
2401-003	1-lp CL suc	245-010000	0	SS-316	461.9	564.78	0.04838	0
2401-004	1-lp CL suc	250-010000	0	SS-316	462.34	564.77	0.04835	0
2401-005	1-lp CL suc	255-010000	0	SS-316	463.24	564.76	0.04571	0
2401-006	1-lp CL suc	260-010000	0	SS-316	479.59	565.15	0.04764	0
2701-001	1-lp CL dis	265-010000	0	SS-316	495.75	565.71	0.05077	0
2701-002	1-lp CL dis	270-010000	0	SS-316	496.06	565.71	0.04965	0
2701-003	1-lp CL dis	275-010000	0	SS-316	487.45	565.71	0.04989	0
2701-004	1-lp CL dis	280-010000	0	SS-316	491.88	565.7	0.04894	0
101-001	RPV head	94-010000	0	alloy600	513.75	565.61	0.01316	0
101-002	RPV head	90-010000	0	SA-508	460.38	565.32	1.21920	0
102-001	RPV head flange	90-010000	0	alloy600	460.38	565.32	1.21880	0
103-001	RPV nozzle	10-010000	0	alloy600	535.95	565.56	0.00262	0
103-002	RPV nozzle	12-010000	0	alloy600	535.92	565.54	0.00139	0
104-001	RPV int shell	12-010000	0	alloy600	536.96	565.54	0.00139	0
104-002	RPV int shell	14-010000	0	alloy600	469.46	565.57	0.24252	0
104-003	RPV int shell	16-010000	0	alloy600	399	565.58	1.46820	0
105-001	RPV lower shell	16-010000	0	alloy600	398.97	565.58	1.46570	0
105-002	RPV lower shell	18-010000	0	alloy600	383.62	565.59	0.13255	0
106-001	RPV lower hd	18-010000	0	alloy600	382.08	565.59	0.01992	0
106-002	RPV lower hd	20-010000	0	SA-508	402.99	565.61	1.39300	0
201-001	core barrel	10-010000	86-010000	SS-316	543.02	556.49	0.00261	0.00100
201-002	core barrel	12-010000	84-010000	SS-316	539.2	533.83	0.00140	0.00500
201-003	core barrel	14-010000	80-040000	SS-316	445.1	400.57	0.16685	1.30800

Table HLt1-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	445.09	398.95	0.16681	1.40900
201-005	core barrel	16-010000	80-020000	SS-316	397.89	403.73	1.37640	1.45900
201-006	core barrel	16-010000	80-010000	SS-316	397.89	399.75	1.37630	1.39500
202-001	low sup plate	22-010000	0	SS-316	394.94	562.76	1.22160	0
203-001	fl dis dvce	22-010000	0	SS-316	387.27	487.13	0.60354	0
204-001	HR	24-010000	80-010000	SS-316	374.17	399.76	0.37809	1.39500
204-002	HR	26-010000	80-010000	SS-316	384.26	399.77	0.60136	1.39600
204-003	HR	28-010000	80-010000	SS-316	389.94	399.78	1.15630	1.39600
204-004	HR	30-010000	80-010000	SS-316	393.28	399.79	1.47640	1.39600
204-005	HR	32-010000	80-010000	SS-316	395.73	399.8	1.71840	1.39700
204-006	HR	34-010000	80-010000	SS-316	399.58	399.82	1.96910	1.39700
204-007	HR	36-010000	80-020000	SS-316	410.87	403.84	2.50660	1.46100
204-008	HR	38-010000	80-020000	SS-316	470.9	403.87	0.06054	1.46100
204-009	HR	40-010000	80-020000	SS-316	474.67	403.89	0.00665	1.46200
204-010	HR	42-010000	80-020000	SS-316	479.27	403.92	0.00821	1.46300
204-011	HR	44-010000	80-020000	SS-316	490.86	403.95	0.00827	1.46300
204-012	HR	46-010000	80-020000	SS-316	498.64	403.98	0.00936	1.46400
204-013	HR	48-010000	80-020000	SS-316	526.58	404.01	0.00942	1.46400
204-014	HR	50-010000	80-030000	SS-316	532.12	399.25	0.00948	1.41400
204-015	HR	52-010000	80-030000	SS-316	534.13	399.28	0.00951	1.41500
204-016	HR	54-010000	80-030000	SS-316	534.88	399.31	0.00956	1.41500
204-017	HR	56-010000	80-030000	SS-316	535.72	399.33	0.00940	1.41600
204-018	HR	58-010000	80-030000	SS-316	536.7	399.35	0.00934	1.41600
204-019	HR	60-010000	80-030000	SS-316	537.71	399.38	0.00933	1.41600
204-020	HR	62-010000	80-040000	SS-316	538.17	436.04	0.00935	0.03400
204-021	HR	64-010000	80-040000	SS-316	538.35	437.4	0.00939	0.03400
204-022	HR	66-010000	80-040000	SS-316	538.45	438.55	0.00944	0.03400
204-023	HR	68-010000	80-040000	SS-316	538.8	439.28	0.00950	0.03400
204-024	HR	70-010000	80-040000	SS-316	538.64	439.78	0.00956	0.03400
204-025	HR	72-010000	80-040000	SS-316	538.1	439.96	0.00962	0.03400
204-026	HR	74-010000	80-040000	SS-316	538.12	440.11	0.00966	0.03400
204-027	HR	76-010000	80-040000	SS-316	537.89	440.2	0.00969	0.03400

Table HLt1-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	533.6	439.6	0.01156	0.03400
205-001	UPR core plt	84-010000	0	SS-316	504.86	591.82	0.00458	0
206-001	LMP	84-010000	0	SS-316	521.49	542.2	0.00454	0
206-002	LMP	86-010000	0	SS-316	549.32	558.85	0.00146	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	584.36	484.63	0.00153	2.70600
208-001	CRGA	84-010000	0	SS-316	508.73	518.39	0.00457	0
208-002	CRGA	86-010000	0	SS-316	535.19	538.82	0.00143	0
208-003	CRGA	92-010000	0	SS-316	458.92	519.4	1.12270	0
4001-001	pzr srg	400-010000	0	SA-508	541.56	626.88	0.29007	0
4101-001	pzr srg	410-010000	0	SA-508	619.67	646.64	0.00773	0
4101-002	pzr srg	410-020000	0	SA-508	634.31	651.9	0.00665	0
4101-003	pzr srg	410-030000	0	SA-508	641.09	653.51	0.00551	0
4101-004	pzr srg	410-040000	0	SA-508	647.08	655.06	0.00532	0
4101-005	pzr srg	410-050000	0	SA-508	652.02	655.04	0.00531	0
4101-006	pzr srg	410-060000	0	SA-508	652.03	655.02	0.00525	0
4201-001	prz hd	408-010000	0	SA-508	589.93	643.25	0.03186	0
4301-001	prz upr hd	412-010000	0	SA-508	653.17	656.21	0.00520	0
R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table HLt1-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		314.36		0.37725
301-002	Fuel Cladding	0	26-010000	cladding		335.3		0.38944
301-003	Fuel Cladding	0	28-010000	cladding		361.36		0.40100
301-004	Fuel Cladding	0	30-010000	cladding		378.14		0.40869
301-005	Fuel Cladding	0	32-010000	cladding		386.17		0.87808
301-006	Fuel Cladding	0	34-010000	cladding		389.18		1.02980
301-007	Fuel Cladding	0	36-010000	cladding		390.62		0.91183
301-008	Fuel Cladding	0	38-010000	cladding		391.16		0.88959
301-009	Fuel Cladding	0	40-010000	cladding		402.76		1.36060
301-010	Fuel Cladding	0	42-010000	cladding		399.37		0.00740
301-011	Fuel Cladding	0	44-010000	cladding		391.46		0.93840
301-012	Fuel Cladding	0	46-010000	cladding		400.81		0.00843
301-013	Fuel Cladding	0	48-010000	cladding		400.39		0.00848
301-014	Fuel Cladding	0	50-010000	cladding		399.75		0.00854
301-015	Fuel Cladding	0	52-010000	cladding		412.67		0.00852

Table HLt1-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		423.16		0.00852
301-017	Fuel Cladding	0	56-010000	cladding		524.96		0.00800
301-018	Fuel Cladding	0	58-010000	cladding		555.32		0.00790
301-019	Fuel Cladding	0	60-010000	cladding		558.58		0.00794
301-020	Fuel Cladding	0	62-010000	cladding		557.43		0.00801
301-021	Fuel Cladding	0	64-010000	cladding		553.67		0.00810
301-022	Fuel Cladding	0	66-010000	cladding		548.52		0.00821
301-023	Fuel Cladding	0	68-010000	cladding		541.7		0.00832
301-024	Fuel Cladding	0	70-010000	cladding		534.73		0.00843
301-025	Fuel Cladding	0	72-010000	cladding		528.71		0.00852
301-026	Fuel Cladding	0	74-010000	cladding		526.37		0.00858
301-027	Fuel Cladding	0	76-010000	cladding		526.7		0.00862
301-028	Fuel Cladding	0	78-010000	cladding		458.46		0.01016

Table HLt1-3: HL LOCA Case 7B: RCS Fluid Conditions (t= 20 seconds)

Table HLt1-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.998	380.4	379.4
105-010000	112.108	0.990	380.6	379.7
110-010000	90.692	0.984	382.9	375.9
115-010000	99.530	0.992	380.9	380.7
117-010000	34.487	0.963	381.1	380.8
120-010000	605.616	0.996	381.1	380.6
121-010000	90.006	1.000	381	436
125-010000	104.546	1.000	381	473.2
125-020000	104.546	1.000	381	497.1
125-030000	104.546	1.000	381	511.5
125-040000	104.546	1.000	381	519.8
125-050000	156.828	1.000	381	525.4
125-060000	209.092	1.000	381.1	528.7
125-070000	209.092	1.000	381.1	531.3
125-080000	209.092	1.000	381.1	533.3
125-090000	209.092	1.000	381.1	536
125-100000	182.764	1.000	381.1	538.2
125-110000	182.764	1.000	381.1	536.5
125-120000	209.092	1.000	381.1	533.7
125-130000	209.092	1.000	381.1	528.9
125-140000	209.092	1.000	381.1	522.9
125-150000	209.092	1.000	381.1	515.4
125-160000	156.828	1.000	381.1	507.8
125-170000	104.546	1.000	381.1	501.7
125-180000	104.546	1.000	381.1	496
125-190000	104.546	1.000	381.1	490.8
125-200000	104.546	1.000	381.1	486.5
129-010000	90.006	1.000	381	500.2
130-010000	605.616	1.000	381.1	430.7
132-010000	34.487	1.000	381	427.6
135-010000	51.857	1.000	381	423.7
140-010000	61.586	1.000	381	419.4

Table HLt1-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	381	411.8
150-010000	102.591	1.000	381.4	408.7
155-010000	108.946	1.000	381	402.6
160-010000	413.100	0.999	380.8	390.2
165-010000	105.120	0.999	381	387.7
170-010000	105.120	0.999	381	385.8
175-010000	135.835	0.997	380.9	383.1
180-010000	116.691	0.998	380.9	381.3
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.998	365.2	364.0
205-010000	37.369	0.997	355.3	355.1
210-010000	30.231	1.000	310.6	396.3
215-010000	33.177	1.000	312.3	400.8
217-010000	11.496	1.000	316.9	414.3
220-010000	201.872	1.000	329.3	463.2
221-010000	30.002	1.000	329.3	473.3
225-010000	34.849	1.000	330.4	476.0
225-020000	34.849	1.000	331.5	467.8
225-030000	34.849	1.000	332.6	461.9
225-040000	34.849	1.000	333.7	457.7
225-050000	52.276	1.000	334.9	455.3
225-060000	69.697	1.000	336.6	453.1
225-070000	69.697	1.000	338.3	450.5
225-080000	69.697	1.000	340	448.2
225-090000	69.697	1.000	341.7	445.7
225-100000	60.921	1.000	343.1	441.6
225-110000	60.921	1.000	344.4	438.9
225-120000	69.697	1.000	345.7	435.5
225-130000	69.697	1.000	347.1	429.2
225-140000	69.697	1.000	348.4	422.0
225-150000	69.697	0.999	349.6	412.8

Table HLt1-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	0.999	350.6	401.2
225-170000	34.849	0.999	351.3	390.3
225-180000	34.849	0.999	351.9	382.5
225-190000	34.849	0.999	352.4	372.7
225-200000	34.849	0.999	353	363.0
229-010000	30.002	0.999	353.5	354.5
230-010000	201.872	0.998	354.1	356.1
232-010000	11.496	0.999	351.5	351.4
235-010000	17.286	0.999	351.7	351.6
240-010000	20.529	0.999	352.2	352.1
245-010000	38.892	0.999	352.4	352.2
250-010000	34.197	0.999	353.1	352.8
255-010000	36.315	0.999	354	353.3
260-010000	137.700	0.999	367	370.1
265-010000	35.040	0.998	377.9	378.0
270-010000	35.040	0.998	378	378.0
275-010000	45.278	0.998	378.2	378.1
280-010000	38.897	0.998	378.4	378.0
10-010000	134.385	0.994	380.8	380.5
12-010000	184.160	0.998	380.7	380.6
14-010000	366.488	0.873	317.6	380.5
16-010000	414.895	0.000	261.4	381.1
18-010000	120.792	0.000	209	382
20-010000	212.629	0.000	163.2	382.4
22-010000	315.096	0.000	264.4	381.8
24-010000	45.438	0.000	283.9	381.3
26-010000	48.504	0.000	307.7	381.1
28-010000	48.504	0.000	333.9	381
30-010000	35.789	0.000	353.1	380.8
32-010000	35.789	0.000	370.4	380.7
34-010000	35.789	0.154	380.6	380.6
36-010000	35.789	0.659	380.7	380.7
38-010000	35.789	0.859	380.7	380.7

Table HLt1-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
40-010000	35.789	1.000	380.7	380.7
42-010000	35.789	1.000	380.7	380.7
44-010000	35.789	0.999	380.6	380.6
46-010000	35.789	1.000	380.6	380.7
48-010000	35.789	1.000	380.6	380.6
50-010000	35.789	1.000	380.6	380.6
52-010000	35.789	1.000	380.6	382.4
54-010000	33.109	1.000	380.6	384.8
56-010000	33.109	1.000	380.6	398.8
58-010000	33.109	1.000	380.6	414.2
60-010000	33.109	1.000	380.6	427.8
62-010000	33.109	1.000	380.6	439.5
64-010000	33.109	1.000	380.6	449.7
66-010000	33.109	1.000	380.6	458.3
68-010000	33.109	1.000	380.6	465.4
70-010000	33.109	1.000	380.6	471.3
72-010000	21.064	1.000	380.6	474.4
74-010000	21.064	1.000	380.5	477.2
76-010000	21.051	1.000	380.5	480.1
78-010000	86.638	1.000	380.5	395.7
80-010000	5.964	0.878	370.8	373.7
80-020000	4.483	0.979	379.7	382.2
80-030000	4.951	0.990	381.2	382.2
80-040000	5.894	0.998	380.7	390.5
82-010000	28.768	0.612	375.2	380.8
82-020000	21.625	0.892	380.7	380.5
82-030000	23.882	0.925	380.6	380.5
82-040000	28.430	0.965	380.5	380.5
84-010000	573.893	0.996	380.6	380
86-010000	276.840	0.996	380.5	380
88-010000	202.853	0.996	423.4	422.8
88-020000	83.659	0.997	423.3	423.1
88-030000	182.966	0.919	423.4	423.3

Table HLt1-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
90-010000	120.233	0.544	447.3	444
92-010000	505.835	0.427	445.2	452.8
94-010000	267.973	0.962	443.5	443.2
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	0.990	488.9	488.7
408-010000	161.115	0.984	533.9	533.5
410-010000	395.598	0.991	533.9	533.2
410-020000	395.598	0.993	533.9	533.2
410-030000	395.598	0.994	533.9	533.1
410-040000	395.598	0.995	533.8	533.1
410-050000	395.598	0.997	533.8	533
410-060000	395.598	0.998	533.8	532.9
412-010000	161.115	0.999	533.8	532.9

Table HLt1-4: HL LOCA Case 7B: SG Metal Stored Energy (t= 20 seconds)

Table HLt1-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.2	556.46
1552-001	sg sep	63.1	553.24
1601-001	sg sep	63.2	558.85
1621-001	sg sep	63.2	558.77
1641-001	sg sep	63.2	558.44
1641-002	sg sep	63.2	559.87
1801-001	1-lp sg sh	65.3	558.55
1801-002	1-lp sg sh	65.3	558.39
1801-003	1-lp sg sh	65.3	558.27
1802-001	1-lp sg sh	65.3	558.73
1803-001	1-lp sg sh	65.3	558.92
1803-002	1-lp sg sh	65.3	558.83
1803-003	1-lp sg sh	65.3	558.83
1803-004	1-lp sg sh	65.3	558.76
1803-005	1-lp sg sh	65.3	558.74
1804-001	1-lp sg sh	65.3	558.70
1806-001	1-lp sg sh	65.2	555.53
1807-001	1-lp sg sh	63.0	547.24
1807-002	1-lp sg sh	62.1	486.81
1808-001	1-lp sg sh	63.0	544.45
1808-002	1-lp sg sh	62.9	540.17
1808-003	1-lp sg sh	62.9	537.38
1808-004	1-lp sg sh	62.9	535.29
1808-005	1-lp sg sh	62.9	534.58
1808-006	1-lp sg sh	62.9	535.19
1808-007	1-lp sg sh	62.9	536.53
1808-008	1-lp sg sh	62.9	538.53
1808-009	1-lp sg sh	62.9	538.16
1808-010	1-lp sg sh	62.3	496.78
1808-011	1-lp sg sh	62.4	504.16
1808-012	1-lp sg sh	62.5	510.84
1808-013	1-lp sg sh	62.6	519.11

Table HLt1-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	62.8	528.71
1808-015	1-lp sg sh	62.9	534.83
1808-016	1-lp sg sh	62.9	537.78
1808-017	1-lp sg sh	62.9	539.52
1808-018	1-lp sg sh	62.9	538.87
6241-001	DC sleeve	62.6	518.10
6241-002	DC sleeve	62.6	517.79
6241-003	DC sleeve	62.6	517.06
6241-004	DC sleeve	62.6	520.28
6301-001	hot DC	63.1	550.61
6301-002	hot DC	63.0	545.40
6301-003	hot DC	63.0	541.67
6301-004	hot DC	62.9	539.20
6301-005	hot DC	62.9	537.28
6301-006	hot DC	62.9	536.48
6301-007	hot DC	62.9	536.75
6301-008	hot DC	62.9	537.62
6301-009	hot DC	62.9	539.16
6301-010	hot DC	62.9	538.34
6301-011	hot DC	63.1	552.52
6311-001	cold DC	62.1	483.98
6311-002	cold DC	62.1	484.62
6311-003	cold DC	62.1	485.87
6311-004	cold DC	62.1	487.31
6311-005	cold DC	62.2	489.24
6311-006	cold DC	62.2	491.81
6311-007	cold DC	62.2	493.77
6311-008	cold DC	62.2	494.40
6311-009	cold DC	62.3	495.57
6311-010	cold DC	62.4	501.82
6311-011	cold DC	62.5	514.12
1543-001	sg sep	63.4	569.51

Table HLt1-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	63.3	566.09
1602-001	sg sep	63.4	570.10
1622-001	sg sep	63.2	560.83
1642-001	sg sep	63.4	571.56
1642-002	sg sep	63.4	571.96
1901-001	3-lp sg sh	65.3	558.90
1901-002	3-lp sg sh	65.3	558.66
1901-003	3-lp sg sh	65.3	558.49
1902-001	3-lp sg sh	65.3	559.03
1903-001	3-lp sg sh	65.4	560.10
1903-002	3-lp sg sh	65.3	559.12
1903-003	3-lp sg sh	65.3	559.37
1903-004	3-lp sg sh	65.4	560.13
1903-005	3-lp sg sh	65.4	560.09
1904-001	3-lp sg sh	65.4	560.12
1906-001	3-lp sg sh	65.5	566.19
1907-001	3-lp sg sh	63.2	558.64
1907-002	3-lp sg sh	62.2	492.23
1908-001	3-lp sg sh	63.2	558.68
1908-002	3-lp sg sh	63.2	558.42
1908-003	3-lp sg sh	63.2	558.26
1908-004	3-lp sg sh	63.2	558.31
1908-005	3-lp sg sh	63.2	558.74
1908-006	3-lp sg sh	63.2	559.43
1908-007	3-lp sg sh	63.2	559.61
1908-008	3-lp sg sh	63.2	560.23
1908-009	3-lp sg sh	63.2	560.43
1908-010	3-lp sg sh	62.4	503.24
1908-011	3-lp sg sh	62.5	512.56
1908-012	3-lp sg sh	62.6	520.83
1908-013	3-lp sg sh	62.8	530.95
1908-014	3-lp sg sh	63.0	542.35
1908-015	3-lp sg sh	63.1	549.83

Table HLt1-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 20 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	63.1	553.96
1908-017	3-lp sg sh	63.2	557.19
1908-018	3-lp sg sh	63.2	559.73
7241-001	3-lp DC sleeve	62.6	520.12
7241-002	3-lp DC sleeve	62.6	520.05
7241-003	3-lp DC sleeve	62.6	519.58
7241-004	3-lp DC sleeve	62.7	522.43
7301-001	3-lp DC	63.2	558.52
7301-002	3-lp DC	63.2	558.15
7301-003	3-lp DC	63.2	557.84
7301-004	3-lp DC	63.2	557.63
7301-005	3-lp DC	63.2	557.69
7301-006	3-lp DC	63.2	557.98
7301-007	3-lp DC	63.2	558.53
7301-008	3-lp DC	63.2	558.88
7301-009	3-lp DC	63.2	559.40
7301-010	3-lp DC	63.2	560.01
7301-011	3-lp DC	63.3	563.46
7311-001	3-lp DC cold	62.1	487.50
7311-002	3-lp DC cold	62.2	490.27
7311-003	3-lp DC cold	62.2	493.14
7311-004	3-lp DC cold	62.3	495.96
7311-005	3-lp DC cold	62.3	499.59
7311-006	3-lp DC cold	62.4	503.88
7311-007	3-lp DC cold	62.4	507.24
7311-008	3-lp DC cold	62.5	508.40
7311-009	3-lp DC cold	62.5	509.72
7311-010	3-lp DC cold	62.6	519.32
7311-011	3-lp DC cold	62.7	524.93

Table HLt1-5: HL LOCA Case 7B: SG Wall Film Conditions (t= 20 seconds)

Table HLt1-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	556.47	556.46	0.01136	0.01432
1552-001	sg sep	640-010000	623-010000	SS-316	552.09	553.99	0.16932	0.04632
1601-001	sg sep	642-010000	645-010000	SS-316	558.88	558.81	0.00159	0.00160
1621-001	sg sep	660-010000	660-010000	SS-316	559.02	559.02	0.00169	0.00169
1641-001	sg sep	645-010000	642-010000	SS-316	558.44	558.44	0.00146	0.00141
1641-002	sg sep	650-010000	650-010000	SS-316	559.86	559.86	0.00194	0.00194
1801-001	1-lp sg sh	625-020000	0	SA-508	557.07	558.81	0.14989	0
1801-002	1-lp sg sh	625-030000	0	SA-508	557.3	558.58	0.14054	0
1801-003	1-lp sg sh	625-040000	0	SA-508	557.39	558.42	0.15015	0
1802-001	1-lp sg sh	625-010000	0	SA-508	557.19	558.97	0.15647	0
1803-001	1-lp sg sh	645-010000	0	SA-508	558.77	558.95	0.00159	0
1803-002	1-lp sg sh	623-010000	0	SA-508	557.15	559.09	0.16690	0
1803-003	1-lp sg sh	639-010000	0	SA-508	557.28	559.09	0.12328	0
1803-004	1-lp sg sh	650-010000	0	SA-508	559.1	558.69	0.00174	0
1803-005	1-lp sg sh	660-010000	0	SA-508	559.06	558.68	0.00170	0
1804-001	1-lp sg sh	670-010000	0	SA-508	559.09	558.63	0.00174	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	550.29	556.42	0.07168	0.01226
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	544.07	544.07	0.07881	0.07881
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	483.62	483.62	0.10972	0.10972
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	536.03	536.03	0.08094	0.08094
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	529.22	529.22	0.08505	0.08505
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	524.72	524.72	0.08745	0.08745
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	521.25	521.25	0.08906	0.08906
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	519.83	519.83	0.09043	0.09043
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	520.4	520.4	0.09157	0.09157
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	522.28	522.28	0.09253	0.09253
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	525.2	525.2	0.09340	0.09340
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	524.37	524.37	0.09468	0.09468
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	489.79	489.79	0.10801	0.10801
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	494.81	494.81	0.10676	0.10676
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	499.83	499.83	0.10578	0.10578

Table HLt1-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	506.6	506.6	0.10477	0.10477
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	514.69	514.69	0.10358	0.10358
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	520.51	520.51	0.10234	0.10234
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	524.15	524.15	0.09487	0.09487
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	526.47	526.47	0.09447	0.09447
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	525.22	525.22	0.09505	0.09505
6241-001	DC sleeve	624-040000	625-040000	SS-316	495.61	537.42	0.33355	0.15011
6241-002	DC sleeve	624-030000	625-030000	SS-316	494.87	537.42	0.33331	0.13797
6241-003	DC sleeve	624-020000	625-020000	SS-316	493.27	536.9	0.33308	0.13083
6241-004	DC sleeve	624-010000	625-010000	SS-316	503.29	536.14	0.10262	0.10168
6301-001	hot DC	630-010000	625-040000	SS-316	545.33	553.67	0.07881	0.15012
6301-002	hot DC	630-020000	625-040000	SS-316	535.77	551.57	0.08073	0.15012
6301-003	hot DC	630-030000	625-040000	SS-316	528.56	550.17	0.08459	0.15012
6301-004	hot DC	630-040000	625-040000	SS-316	523.63	549.28	0.08677	0.15012
6301-005	hot DC	630-050000	625-030000	SS-316	519.69	548.91	0.08817	0.13824
6301-006	hot DC	630-060000	625-030000	SS-316	517.6	548.75	0.08921	0.13823
6301-007	hot DC	630-070000	625-030000	SS-316	517.31	549.08	0.08995	0.13824
6301-008	hot DC	632-010000	625-020000	SS-316	518.21	549.45	0.09044	0.13143
6301-009	hot DC	634-010000	625-020000	SS-316	520.13	550.32	0.09084	0.13152
6301-010	hot DC	636-010000	625-010000	SS-316	518.21	549.44	0.09171	0.06574
6301-011	hot DC	638-010000	625-010000	SS-316	546.64	555.38	0.06776	0.04798
6311-001	cold DC	631-010000	624-040000	SS-316	479.43	485.76	0.10972	0.33355
6311-002	cold DC	631-020000	624-040000	SS-316	478.18	486.3	0.10801	0.33355
6311-003	cold DC	631-030000	624-040000	SS-316	478.94	486.88	0.10676	0.33355
6311-004	cold DC	631-040000	624-040000	SS-316	480.41	487.46	0.10578	0.33355
6311-005	cold DC	631-050000	624-030000	SS-316	483.27	487.51	0.10477	0.33331
6311-006	cold DC	631-060000	624-030000	SS-316	486.98	488.37	0.10358	0.33331
6311-007	cold DC	631-070000	624-030000	SS-316	490.09	488.98	0.10234	0.33331
6311-008	cold DC	633-010000	624-020000	SS-316	492.68	487.68	0.09085	0.33308
6311-009	cold DC	635-010000	624-020000	SS-316	495.36	487.94	0.07443	0.33308
6311-010	cold DC	637-010000	624-010000	SS-316	498.18	496.64	0.07925	0.10262
6311-011	cold DC	638-010000	624-010000	SS-316	522.1	501.41	0.04207	0.10262

Table HLt1-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	569.52	569.51	0.08699	0.21900
1553-001	sg sep	740-010000	723-010000	SS-316	566.4	565.56	0.04674	0.06769
1602-001	sg sep	742-010000	745-010000	SS-316	570.98	571.06	0.44705	0.47782
1622-001	sg sep	760-010000	760-010000	SS-316	567	567	0.33695	0.33695
1642-001	sg sep	745-010000	742-010000	SS-316	571.66	571.64	0.65913	0.61381
1642-002	sg sep	750-010000	750-010000	SS-316	571.97	571.97	0.00239	0.00239
1901-001	3-lp sg sh	725-020000	0	SA-508	559.34	558.8	0.05342	0
1901-002	3-lp sg sh	725-030000	0	SA-508	559.02	558.58	0.05360	0
1901-003	3-lp sg sh	725-040000	0	SA-508	558.81	558.42	0.05380	0
1902-001	3-lp sg sh	725-010000	0	SA-508	559.37	558.97	0.02579	0
1903-001	3-lp sg sh	745-010000	0	SA-508	567.09	558.95	0.30840	0
1903-002	3-lp sg sh	723-010000	0	SA-508	559.29	559.09	0.04030	0
1903-003	3-lp sg sh	739-010000	0	SA-508	561.25	559.08	0.12951	0
1903-004	3-lp sg sh	750-010000	0	SA-508	568.53	558.69	0.38750	0
1903-005	3-lp sg sh	760-010000	0	SA-508	568.31	558.68	0.36462	0
1904-001	3-lp sg sh	770-010000	0	SA-508	568.82	558.62	0.42857	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	565.6	566.76	0.03536	0.04674
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	558.32	558.32	0.03571	0.03571
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	491.21	491.21	0.09792	0.09792
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	557.7	557.7	0.04060	0.04060
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	557.11	557.11	0.04535	0.04535
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	556.71	556.71	0.04975	0.04975
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	556.6	556.6	0.05431	0.05431
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	557.12	557.12	0.05715	0.05715
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	558.13	558.13	0.05796	0.05796
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	558.41	558.41	0.06149	0.06149
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	559.33	559.33	0.05827	0.05827
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	559.66	559.66	0.06126	0.06126
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	500.18	500.18	0.09791	0.09791
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	508.24	508.24	0.09790	0.09790
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	515.77	515.77	0.09793	0.09793

Table HLt1-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 20 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	525.52	525.52	0.09775	0.09775
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	536.52	536.52	0.09739	0.09739
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	544.55	544.55	0.09703	0.09703
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	550.23	550.23	0.07970	0.07970
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	555.11	555.11	0.06851	0.06851
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	558.52	558.52	0.06660	0.06660
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	497.49	539.37	0.29409	0.08368
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	496.8	539.58	0.29383	0.08394
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	494.86	539.8	0.29357	0.08449
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	504.55	539.32	0.09727	0.10514
7301-001	3-lp DC	730-010000	725-040000	SS-316	558.3	558.69	0.03548	0.05380
7301-002	3-lp DC	730-020000	725-040000	SS-316	557.67	558.53	0.04036	0.05380
7301-003	3-lp DC	730-030000	725-040000	SS-316	557.05	558.42	0.04501	0.05380
7301-004	3-lp DC	730-040000	725-040000	SS-316	556.53	558.39	0.04901	0.05380
7301-005	3-lp DC	730-050000	725-030000	SS-316	556.21	558.65	0.05310	0.05360
7301-006	3-lp DC	730-060000	725-030000	SS-316	556.39	558.9	0.05516	0.05360
7301-007	3-lp DC	730-070000	725-030000	SS-316	557.11	559.25	0.05522	0.05360
7301-008	3-lp DC	732-010000	725-020000	SS-316	557.22	559.67	0.05885	0.05342
7301-009	3-lp DC	734-010000	725-020000	SS-316	558.09	559.94	0.05490	0.05342
7301-010	3-lp DC	736-010000	725-010000	SS-316	558.6	560.63	0.06126	0.02633
7301-011	3-lp DC	738-010000	725-010000	SS-316	564.13	562.48	0.02552	0.04517
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	487.68	487.04	0.09792	0.29409
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	491.03	488.13	0.09791	0.29409
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	494.96	489.18	0.09790	0.29409
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	499.16	490.14	0.09793	0.29409
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	505.28	490.65	0.09775	0.29383
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	512.44	491.99	0.09739	0.29383
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	518.37	492.98	0.09703	0.29383
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	521.73	491.45	0.07970	0.29357
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	524.68	491.73	0.07722	0.29357
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	532.1	503.69	0.07472	0.09604
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	541.54	506	0.07406	0.09931

Table HLt1-6: HL LOCA Case 7B: SG Fluid Conditions (t= 20 seconds)

Table HLt1-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.005	555.87	556.51
623-010000	366.645	0.007	555.92	556.51
624-010000	155.893	0.000	479.73	556.71
624-020000	43.006	0.000	482.25	557.06
624-030000	59.135	0.000	484.62	557.5
624-040000	43.006	0.000	485.76	557.94
625-010000	180.020	0.026	555.84	556.74
625-020000	73.345	0.032	555.93	557.07
625-030000	100.851	0.024	556.06	557.47
625-040000	73.345	0.003	552.68	557.87
630-010000	70.116	0.000	528.65	558.02
630-020000	70.116	0.000	511.52	557.93
630-030000	70.116	0.000	498.38	557.84
630-040000	70.116	0.000	489.14	557.75
630-050000	105.180	0.000	482.05	557.63
630-060000	140.232	0.000	477.57	557.47
630-070000	140.232	0.000	475.7	557.28
631-010000	70.116	0.000	466.78	558.05
631-020000	70.116	0.000	459.12	557.96
631-030000	70.116	0.000	457.21	557.86
631-040000	70.116	0.000	457	557.76
631-050000	105.180	0.000	459.77	557.64
631-060000	140.232	0.000	464.04	557.48
631-070000	140.232	0.000	468.18	557.29
632-010000	140.232	0.000	475.67	557.09
633-010000	140.232	0.000	472.07	557.1
634-010000	140.232	0.000	477.03	556.91
635-010000	140.232	0.000	475.87	556.91
636-010000	86.672	0.000	472.86	556.75
637-010000	86.672	0.000	472.91	556.75
638-010000	609.522	0.000	526.84	556.58
639-010000	635.282	0.402	556.22	557.38

Table HLt1-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.279	532.6	557.58
641-010000	117.514	1.000	556.35	557.35
642-010000	320.019	1.000	556.34	557.49
645-010000	1075.296	1.000	556.35	557.29
650-010000	830.204	1.000	556.33	557.14
660-010000	703.676	1.000	556.32	557.24
670-010000	400.000	1.000	556.31	557.12
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	559.93	572.02
723-010000	1099.935	0.000	560.64	572.02
724-010000	467.679	0.000	477.25	572.24
724-020000	129.019	0.000	481.91	572.57
724-030000	177.404	0.000	485.36	572.98
724-040000	129.019	0.000	486.69	573.38
725-010000	540.019	0.000	559.98	572.23
725-020000	220.035	0.000	559.5	572.54
725-030000	302.553	0.000	559.03	572.93
725-040000	220.035	0.000	558.73	573.31
730-010000	210.349	0.000	557.5	573.43
730-020000	210.349	0.000	556.33	573.35
730-030000	210.349	0.000	554.97	573.28
730-040000	210.349	0.000	553.6	573.2
730-050000	315.541	0.000	552.14	573.1
730-060000	420.697	0.000	551.65	572.97
730-070000	420.697	0.000	552.36	572.82
731-010000	210.349	0.000	487.15	573.49
731-020000	210.349	0.000	489.09	573.41
731-030000	210.349	0.000	492.78	573.32
731-040000	210.349	0.000	497.72	573.24
731-050000	315.541	0.000	506.16	573.14
731-060000	420.697	0.000	517.04	572.99

Table HLt1-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 20 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.000	526.77	572.83
732-010000	420.697	0.000	551.06	572.66
733-010000	420.697	0.000	535.05	572.67
734-010000	420.697	0.000	553.47	572.51
735-010000	420.697	0.000	543.47	572.51
736-010000	260.017	0.000	554.51	572.38
737-010000	260.017	0.000	548.3	572.38
738-010000	1828.567	0.000	563.24	572.23
739-010000	1905.846	0.386	561.52	576.97
740-010000	375.926	0.001	566.18	572.07
741-010000	352.543	0.112	566.3	572.92
742-010000	960.056	0.943	566.38	573.23
745-010000	3225.888	0.999	569.23	577.73
750-010000	2490.612	1.000	571.87	575.26
760-010000	2111.028	1.000	571.86	577.12
770-010000	1200.000	1.000	571.85	576.37

Table HLt2-1: HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

Table HLt2-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.7	595.95
1001-002	3-lp HL	63.6	588.24
1001-003	3-lp HL	63.7	592.25
1001-004	3-lp HL	63.8	597.82
1081-001	1-lp sg ch	64.1	622.92
1081-002	1-lp sg ch	63.1	553.28
1082-001	3-lp sg ch	64.1	620.38
1082-002	3-lp sg ch	63.3	563.1
1091-001	1-lp sg ch	62.1	468.08
1091-002	1-lp sg ch	60.3	368.88
1092-001	3-lp sg ch	64.0	575.02
1092-002	3-lp sg ch	63.4	543.67
1251-001	3-lp SG tube	63.5	549.79
1251-002	3-lp SG tube	63.5	549.1
1251-003	3-lp SG tube	63.5	548.26
1251-004	3-lp SG tube	63.5	547.59
1251-005	3-lp SG tube	63.5	547.43
1251-006	3-lp SG tube	63.5	547.83
1251-007	3-lp SG tube	63.5	547.94
1251-008	3-lp SG tube	63.4	544.19
1251-009	3-lp SG tube	63.5	549.11
1251-010	3-lp SG tube	63.6	550.86
1251-011	3-lp SG tube	63.4	544.15
1251-012	3-lp SG tube	63.3	538.3
1251-013	3-lp SG tube	63.1	527.98
1251-014	3-lp SG tube	63.0	518.79
1251-015	3-lp SG tube	62.8	508.86
1251-016	3-lp SG tube	62.6	498.77
1251-017	3-lp SG tube	62.5	492.27
1251-018	3-lp SG tube	62.4	489.12
1251-019	3-lp SG tube	62.4	486.9
1251-020	3-lp SG tube	62.4	485.06

Table HLt2-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.1	549.84
1401-002	3-lp CL	63.1	549.64
1401-003	3-lp CL	63.1	548.62
1401-004	3-lp CL	63.1	548.4
1401-005	3-lp CL	63.1	548.25
1401-006	3-lp CL	63.1	550.54
1701-001	3-lp CLd	63.1	548.27
1701-002	3-lp CLd	63.1	549.96
1701-003	3-lp CLd	63.0	545.84
1701-004	3-lp CLd	63.0	545.06
1905-001	3-lp sg sh	63.9	573.03
1805-001	1-lp sg sh	63.6	551.22
2001-001	1-lp HL	63.8	599.55
2001-002	1-lp HL	63.8	597.28
2001-003	1-lp HL	63.8	598.57
2001-004	1-lp HL	63.8	599.7
2251-001	sngl tube	62.4	485.91
2251-002	sngl tube	62.2	475.49
2251-003	sngl tube	62.1	467.58
2251-004	sngl tube	62.0	462.32
2251-005	sngl tube	61.9	459.28
2251-006	sngl tube	61.9	457.05
2251-007	sngl tube	61.9	455.73
2251-008	sngl tube	61.8	454.72
2251-009	sngl tube	61.9	456.1
2251-010	sngl tube	61.9	459.61
2251-011	sngl tube	61.7	448.91
2251-012	sngl tube	61.7	448.93
2251-013	sngl tube	61.6	441.03
2251-014	sngl tube	61.2	416.74
2251-015	sngl tube	61.0	406.25
2251-016	sngl tube	59.8	340.26

Table HLt2-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	59.4	321.05
2251-018	sngl tube	59.5	323.82
2251-019	sngl tube	59.6	330.31
2251-020	sngl tube	59.7	332.99
2401-001	1-lp CL suc	62.9	541.16
2401-002	1-lp CL suc	62.9	540.98
2401-003	1-lp CL suc	62.9	540.97
2401-004	1-lp CL suc	63.0	541.25
2401-005	1-lp CL suc	63.0	541.73
2401-006	1-lp CL suc	63.0	545.52
2701-001	1-lp CL dis	63.1	549.88
2701-002	1-lp CL dis	63.1	548.54
2701-003	1-lp CL dis	63.0	547.61
2701-004	1-lp CL dis	63.0	547.92
101-001	RPV head	63.6	564.15
101-002	RPV head	65.4	559.61
102-001	RPV head flange	63.5	563.28
103-001	RPV nozzle	63.6	564.4
103-002	RPV nozzle	63.5	563.25
104-001	RPV int shell	63.5	562.09
104-002	RPV int shell	63.5	557.53
104-003	RPV int shell	63.5	556.77
105-001	RPV lower shell	63.4	556.03
105-002	RPV lower shell	63.4	555.61
106-001	RPV lower hd	63.4	550.35
106-002	RPV lower hd	65.1	551.18
201-001	core barrel	63.5	578.92
201-002	core barrel	63.3	564.53
201-003	core barrel	62.6	516.82
201-004	core barrel	62.5	514.29
201-005	core barrel	62.5	510.81
201-006	core barrel	62.5	508.13

Table HLt2-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	62.1	487.44
203-001	fl dis dvce	59.5	328.61
204-001	HR	62.5	513.19
204-002	HR	62.5	514.22
204-003	HR	62.6	515.68
204-004	HR	62.6	516.96
204-005	HR	62.6	517.98
204-006	HR	62.6	519.72
204-007	HR	62.7	524.42
204-008	HR	62.7	526.13
204-009	HR	62.8	527.96
204-010	HR	62.8	529.92
204-011	HR	62.8	531.96
204-012	HR	62.8	534.04
204-013	HR	62.9	536.73
204-014	HR	62.9	540.71
204-015	HR	63.0	542.45
204-016	HR	63.0	543.87
204-017	HR	63.0	545.33
204-018	HR	63.0	546.72
204-019	HR	63.1	548.16
204-020	HR	63.1	552.42
204-021	HR	63.1	553.52
204-022	HR	63.1	554.67
204-023	HR	63.2	555.49
204-024	HR	63.2	556.1
204-025	HR	63.2	556.39
204-026	HR	63.2	556.65
204-027	HR	63.2	556.82
204-028	HR	63.2	556.1
205-001	UPR core plt	63.0	547.89
206-001	LMP	62.8	530.35
206-002	LMP	63.1	553.58

Table HLt2-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.2	559.19
208-001	CRGA	62.5	510.03
208-002	CRGA	62.9	535.76
208-003	CRGA	60.7	399.35
4001-001	pzr srg	66.2	593.94
4101-001	pzr srg	67.5	643.66
4101-002	pzr srg	67.6	649.59
4101-003	pzr srg	67.7	651.81
4101-004	pzr srg	67.7	653.96
4101-005	pzr srg	67.8	654.66
4101-006	pzr srg	67.8	654.65
4201-001	prz hd	67.4	638.64
4301-001	prz upr hd	67.8	655.79
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	41.1	222.92
301-002	FUEL ASS	42.1	286.85
301-003	FUEL ASS	42.1	287.7
301-004	FUEL ASS	42.2	296.55
301-005	FUEL ASS	42.4	307.14
301-006	FUEL ASS	42.5	318.62
301-007	FUEL ASS	42.7	330.22
301-008	FUEL ASS	42.9	345.07
301-009	FUEL ASS	43.0	356.44
301-010	FUEL ASS	43.1	364.24
301-011	FUEL ASS	43.2	372
301-012	FUEL ASS	43.3	381.17
301-013	FUEL ASS	43.4	387.53
301-014	FUEL ASS	43.5	393.72
301-015	FUEL ASS	43.6	401.36
301-016	FUEL ASS	43.6	406.16

Table HLt2-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	43.8	419.84
301-018	FUEL ASS	43.9	428
301-019	FUEL ASS	44.0	432.67
301-020	FUEL ASS	44.0	437.04
301-021	FUEL ASS	44.0	438.49
301-022	FUEL ASS	44.0	439.52
301-023	FUEL ASS	44.0	439.55
301-024	FUEL ASS	44.0	434.23
301-025	FUEL ASS	43.9	425.12
301-026	FUEL ASS	43.9	424.49
301-027	FUEL ASS	43.9	426.89
301-028	FUEL ASS	43.0	351.87
301-001	Fuel Cladding	29.3	222.92
301-002	Fuel Cladding	29.6	286.85
301-003	Fuel Cladding	29.6	287.7
301-004	Fuel Cladding	29.6	296.55
301-005	Fuel Cladding	29.7	307.14
301-006	Fuel Cladding	29.7	318.62
301-007	Fuel Cladding	29.8	330.22
301-008	Fuel Cladding	29.8	345.07
301-009	Fuel Cladding	29.9	356.44
301-010	Fuel Cladding	29.9	364.24
301-011	Fuel Cladding	30.0	372
301-012	Fuel Cladding	30.0	381.17
301-013	Fuel Cladding	30.0	387.53
301-014	Fuel Cladding	30.1	393.72
301-015	Fuel Cladding	30.1	401.36
301-016	Fuel Cladding	30.1	406.16
301-017	Fuel Cladding	30.2	419.84
301-018	Fuel Cladding	30.2	428
301-019	Fuel Cladding	30.2	432.67
301-020	Fuel Cladding	30.3	437.04
301-021	Fuel Cladding	30.3	438.49

Table HLt2-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	Fuel Cladding	30.3	439.52
301-023	Fuel Cladding	30.3	439.55
301-024	Fuel Cladding	30.3	434.23
301-025	Fuel Cladding	30.2	425.12
301-026	Fuel Cladding	30.2	424.49
301-027	Fuel Cladding	30.2	426.89
301-028	Fuel Cladding	29.9	351.87

Table HLt2-2: HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

Table HLt2-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	472.35	625.6	0.00731	0
1001-002	3-lp HL	105-010000	0	SS-316	428.98	625.58	0.00674	0
1001-003	3-lp HL	110-010000	0	SS-316	451.34	625.59	0.00402	0
1001-004	3-lp HL	115-010000	0	SS-316	482.09	625.59	0.00101	0
1081-001	1-lp sg ch	220-010000	0	SS-316	605.57	625.76	0.00450	0
1081-002	1-lp sg ch	230-010000	0	SS-316	374.07	564.86	0.56499	0
1082-001	3-lp sg ch	120-010000	0	SS-316	595.74	625.76	0.00089	0
1082-002	3-lp sg ch	130-010000	0	SS-316	555.21	564.85	0.00042	0
1091-001	1-lp sg ch	221-010000	0	alloy690	465.22	468.78	0.02751	0
1091-002	1-lp sg ch	229-010000	0	alloy690	318.13	380.3	1.28020	0
1092-001	3-lp sg ch	121-010000	0	alloy690	574.67	575.13	0.00082	0
1092-002	3-lp sg ch	129-010000	0	alloy690	543.57	543.7	0.00122	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	549.71	549.9	0.00077	0.07241
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	549.02	549.19	0.00075	0.07254
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	548.19	548.35	0.00074	0.07267
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	547.53	547.68	0.00074	0.07280
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	547.37	547.5	0.00074	0.07294
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	547.79	547.89	0.00076	0.07309
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	547.92	547.97	0.00079	0.07322
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	544.19	544.18	0.00083	0.05067
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	549.1	549.12	0.00087	0.04019
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	550.85	550.87	0.00090	0.04398
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	544.15	544.15	0.00094	0.01834
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	538.32	538.28	0.00098	0.05270
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	528.01	527.92	0.00102	0.08227
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	518.83	518.72	0.00107	0.10328
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	508.9	508.79	0.00111	0.10356
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	498.81	498.71	0.00115	0.10375
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	492.29	492.22	0.00118	0.10371
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	489.14	489.09	0.00120	0.10368
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	486.91	486.87	0.00122	0.10366

Table HLt2-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	485.08	485.03	0.00123	0.10365
1401-001	3-lp CL	135-010000	0	SS-316	486.07	564.74	0.00136	0
1401-002	3-lp CL	140-010000	0	SS-316	484.94	564.74	0.00136	0
1401-003	3-lp CL	145-010000	0	SS-316	479.28	564.75	0.00136	0
1401-004	3-lp CL	150-010000	0	SS-316	478.1	564.74	0.00135	0
1401-005	3-lp CL	155-010000	0	SS-316	477.34	564.74	0.00133	0
1401-006	3-lp CL	160-010000	0	SS-316	488.27	565.12	0.00104	0
1701-001	3-lp CLd	165-010000	0	SS-316	474.36	565.43	0.00129	0
1701-002	3-lp CLd	170-010000	0	SS-316	483.64	565.43	0.00107	0
1701-003	3-lp CLd	175-010000	0	SS-316	460.66	565.43	0.00093	0
1701-004	3-lp CLd	180-010000	0	SS-316	455.56	565.42	0.00079	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	548.69	546.25	0.00085	0.00040
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	578.55	367.8	0.00453	0.62477
2001-001	1-lp HL	200-010000	0	SS-316	486.45	625.63	0.03096	0
2001-002	1-lp HL	205-010000	0	SS-316	475.17	625.61	0.03056	0
2001-003	1-lp HL	210-010000	0	SS-316	485.64	625.59	0.02691	0
2001-004	1-lp HL	215-010000	0	SS-316	491.19	625.59	0.02584	0
2251-001	sngl tube	225-010000	630-010000	alloy690	484.72	486.93	0.02697	0.09663
2251-002	sngl tube	225-020000	630-020000	alloy690	474.4	476.43	0.02681	0.09453
2251-003	sngl tube	225-030000	630-030000	alloy690	466.54	468.48	0.02665	0.09365
2251-004	sngl tube	225-040000	630-040000	alloy690	461.32	463.2	0.02643	0.09307
2251-005	sngl tube	225-050000	630-050000	alloy690	458.32	460.14	0.02612	0.09253
2251-006	sngl tube	225-060000	630-060000	alloy690	456.11	457.88	0.02575	0.09216
2251-007	sngl tube	225-070000	630-070000	alloy690	454.81	456.56	0.02536	0.09215
2251-008	sngl tube	225-080000	632-010000	alloy690	453.81	455.54	0.02498	0.09161
2251-009	sngl tube	225-090000	634-010000	alloy690	455.15	456.96	0.02458	0.09304
2251-010	sngl tube	225-100000	636-010000	alloy690	458.59	460.51	0.02411	0.09394
2251-011	sngl tube	225-110000	637-010000	alloy690	447.94	449.78	0.02382	0.09307
2251-012	sngl tube	225-120000	635-010000	alloy690	447.91	449.84	0.02326	0.09388
2251-013	sngl tube	225-130000	633-010000	alloy690	440.02	441.92	0.02265	0.09220
2251-014	sngl tube	225-140000	631-070000	alloy690	415.59	417.91	0.02234	0.10034

Table HLt2-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	404.97	407.57	0.02226	0.10195
2251-016	sngl tube	225-160000	631-050000	alloy690	324.92	351.33	1.20010	0.13652
2251-017	sngl tube	225-170000	631-040000	alloy690	311.95	329.52	0.92764	0.14100
2251-018	sngl tube	225-180000	631-030000	alloy690	314.15	332.74	0.88995	0.14260
2251-019	sngl tube	225-190000	631-020000	alloy690	318.47	340.64	0.91038	0.14531
2251-020	sngl tube	225-200000	631-010000	alloy690	319.84	344.98	0.91884	0.15383
2401-001	1-lp CL suc	235-010000	0	SS-316	439.89	564.71	0.01824	0
2401-002	1-lp CL suc	240-010000	0	SS-316	438.67	564.71	0.01826	0
2401-003	1-lp CL suc	245-010000	0	SS-316	438.36	564.71	0.01818	0
2401-004	1-lp CL suc	250-010000	0	SS-316	439.87	564.71	0.01793	0
2401-005	1-lp CL suc	255-010000	0	SS-316	442.53	564.71	0.01660	0
2401-006	1-lp CL suc	260-010000	0	SS-316	459.9	565.11	0.01193	0
2701-001	1-lp CL dis	265-010000	0	SS-316	480.52	565.67	0.00156	0
2701-002	1-lp CL dis	270-010000	0	SS-316	471.91	565.67	0.00649	0
2701-003	1-lp CL dis	275-010000	0	SS-316	467.51	565.67	0.00207	0
2701-004	1-lp CL dis	280-010000	0	SS-316	468.77	565.67	0.00149	0
101-001	RPV head	94-010000	0	alloy600	547.76	565.61	0.00110	0
101-002	RPV head	90-010000	0	SA-508	384.47	565.32	1.28890	0
102-001	RPV head flange	90-010000	0	alloy600	384.39	565.32	1.28660	0
103-001	RPV nozzle	10-010000	0	alloy600	540.33	565.56	0.00079	0
103-002	RPV nozzle	12-010000	0	alloy600	479.94	565.54	0.00287	0
104-001	RPV int shell	12-010000	0	alloy600	481.02	565.54	0.00284	0
104-002	RPV int shell	14-010000	0	alloy600	335.06	565.57	1.14830	0
104-003	RPV int shell	16-010000	0	alloy600	337.53	565.58	1.09680	0
105-001	RPV lower shell	16-010000	0	alloy600	337.41	565.58	1.09010	0
105-002	RPV lower shell	18-010000	0	alloy600	339.65	565.59	1.00520	0
106-001	RPV lower hd	18-010000	0	alloy600	339.33	565.59	0.98890	0
106-002	RPV lower hd	20-010000	0	SA-508	342.75	565.6	1.00670	0
201-001	core barrel	10-010000	86-010000	SS-316	541.76	569.85	0.00079	0.00138
201-002	core barrel	12-010000	84-010000	SS-316	433.75	554.5	0.00589	0.00289
201-003	core barrel	14-010000	80-040000	SS-316	331.11	339.7	0.92377	2.05560

Table HLt2-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	331.11	336.63	0.92340	1.32310
201-005	core barrel	16-010000	80-020000	SS-316	332.74	347.49	0.83353	0.00950
201-006	core barrel	16-010000	80-010000	SS-316	332.74	301.94	0.83353	0.26330
202-001	low sup plate	22-010000	0	SS-316	311.04	551.44	0.10765	0
203-001	fl dis dvce	22-010000	0	SS-316	280.49	358.48	0.10765	0
204-001	HR	24-010000	80-010000	SS-316	266.45	302	0.22760	0.26337
204-002	HR	26-010000	80-010000	SS-316	270.7	302.02	0.23102	0.26338
204-003	HR	28-010000	80-010000	SS-316	275.9	302.04	0.23499	0.26340
204-004	HR	30-010000	80-010000	SS-316	279.98	302.06	0.23822	0.26343
204-005	HR	32-010000	80-010000	SS-316	283.11	302.09	0.24167	0.26345
204-006	HR	34-010000	80-010000	SS-316	288.34	302.12	0.24539	0.26348
204-007	HR	36-010000	80-020000	SS-316	295.61	348	0.24936	0.00931
204-008	HR	38-010000	80-020000	SS-316	300.4	348.07	0.25328	0.00929
204-009	HR	40-010000	80-020000	SS-316	305.31	348.13	0.25718	0.00927
204-010	HR	42-010000	80-020000	SS-316	310.69	348.18	0.26115	0.00925
204-011	HR	44-010000	80-020000	SS-316	316.05	348.24	0.26515	0.00923
204-012	HR	46-010000	80-020000	SS-316	319.72	348.29	0.40542	0.00921
204-013	HR	48-010000	80-020000	SS-316	322.43	348.35	0.62783	0.00919
204-014	HR	50-010000	80-030000	SS-316	324.29	339.28	0.74140	1.36270
204-015	HR	52-010000	80-030000	SS-316	325.88	339.35	0.84256	1.36380
204-016	HR	54-010000	80-030000	SS-316	327.14	339.42	0.92695	1.36480
204-017	HR	56-010000	80-030000	SS-316	328.41	339.5	1.01570	1.36600
204-018	HR	58-010000	80-030000	SS-316	329.67	339.56	1.10440	1.36700
204-019	HR	60-010000	80-030000	SS-316	330.98	339.63	1.19790	1.36800
204-020	HR	62-010000	80-040000	SS-316	332.91	341.82	1.33170	2.07190
204-021	HR	64-010000	80-040000	SS-316	333.92	341.91	1.41170	2.07260
204-022	HR	66-010000	80-040000	SS-316	334.9	342.06	1.49050	2.07380
204-023	HR	68-010000	80-040000	SS-316	335.66	342.23	1.53730	2.07510
204-024	HR	70-010000	80-040000	SS-316	336.27	342.36	1.53430	2.07610
204-025	HR	72-010000	80-040000	SS-316	336.45	342.46	1.54210	2.07690
204-026	HR	74-010000	80-040000	SS-316	336.83	342.53	1.53100	2.07740
204-027	HR	76-010000	80-040000	SS-316	336.84	342.57	1.54060	2.07780

Table HLt2-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	337.62	342.31	1.48730	2.07570
205-001	UPR core plt	84-010000	0	SS-316	520.15	573.19	0.00361	0
206-001	LMP	84-010000	0	SS-316	528.01	531.62	0.00341	0
206-002	LMP	86-010000	0	SS-316	552.63	554.08	0.00137	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	584.17	461.53	0.00140	0.12300
208-001	CRGA	84-010000	0	SS-316	508.29	511.02	0.00395	0
208-002	CRGA	86-010000	0	SS-316	535.07	536.14	0.00135	0
208-003	CRGA	92-010000	0	SS-316	360.69	421.73	0.56355	0
4001-001	pzr srg	400-010000	0	SA-508	516.93	622.92	0.06744	0
4101-001	pzr srg	410-010000	0	SA-508	625.47	646.64	0.00162	0
4101-002	pzr srg	410-020000	0	SA-508	635.47	651.9	0.00163	0
4101-003	pzr srg	410-030000	0	SA-508	641.12	653.51	0.00164	0
4101-004	pzr srg	410-040000	0	SA-508	646.56	655.06	0.00164	0
4101-005	pzr srg	410-050000	0	SA-508	651.12	655.04	0.00165	0
4101-006	pzr srg	410-060000	0	SA-508	651.09	655.02	0.00185	0
4201-001	prz hd	408-010000	0	SA-508	611.02	643.25	0.00246	0
4301-001	prz upr hd	412-010000	0	SA-508	652	656.21	0.00185	0
R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table HLt2-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		183.47		0.2276
301-002	Fuel Cladding	0	26-010000	cladding		193.59		0.23102
301-003	Fuel Cladding	0	28-010000	cladding		201.65		0.23499
301-004	Fuel Cladding	0	30-010000	cladding		208.19		0.23822
301-005	Fuel Cladding	0	32-010000	cladding		214.68		0.24167
301-006	Fuel Cladding	0	34-010000	cladding		221.62		0.24539
301-007	Fuel Cladding	0	36-010000	cladding		228.54		0.24936
301-008	Fuel Cladding	0	38-010000	cladding		236.47		0.25328
301-009	Fuel Cladding	0	40-010000	cladding		243.72		0.25718
301-010	Fuel Cladding	0	42-010000	cladding		250.23		0.26115
301-011	Fuel Cladding	0	44-010000	cladding		256.84		0.26515
301-012	Fuel Cladding	0	46-010000	cladding		263.85		0.2692
301-013	Fuel Cladding	0	48-010000	cladding		270.35		0.27329
301-014	Fuel Cladding	0	50-010000	cladding		276.93		0.27739
301-015	Fuel Cladding	0	52-010000	cladding		284.01		0.28149

Table HLt2-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		290.18		0.28516
301-017	Fuel Cladding	0	56-010000	cladding		298.49		0.28895
301-018	Fuel Cladding	0	58-010000	cladding		305.86		0.2928
301-019	Fuel Cladding	0	60-010000	cladding		312.61		0.29665
301-020	Fuel Cladding	0	62-010000	cladding		318.91		0.30194
301-021	Fuel Cladding	0	64-010000	cladding		323.54		0.31973
301-022	Fuel Cladding	0	66-010000	cladding		326.96		0.35264
301-023	Fuel Cladding	0	68-010000	cladding		329.48		0.38026
301-024	Fuel Cladding	0	70-010000	cladding		330.01		0.36447
301-025	Fuel Cladding	0	72-010000	cladding		328.7		0.33836
301-026	Fuel Cladding	0	74-010000	cladding		327.88		0.3134
301-027	Fuel Cladding	0	76-010000	cladding		326.47		0.27937
301-028	Fuel Cladding	0	78-010000	cladding		322.37		0.24954

Table HLt2-3: HL LOCA Case 7B: RCS Fluid Conditions (t= 30 seconds)

Table HLt2-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.999	312.5	314
105-010000	112.108	0.988	312.5	312.1
110-010000	90.692	0.992	313.3	310
115-010000	99.530	0.996	312.5	313.2
117-010000	34.487	0.998	312.5	313.7
120-010000	605.616	0.998	312.5	317
121-010000	90.006	1.000	312.5	454.9
125-010000	104.546	1.000	312.5	485.8
125-020000	104.546	1.000	312.5	497.4
125-030000	104.546	1.000	312.5	503.2
125-040000	104.546	1.000	312.5	509.6
125-050000	156.828	1.000	312.5	518.7
125-060000	209.092	1.000	312.5	528.4
125-070000	209.092	1.000	312.5	535
125-080000	209.092	1.000	312.5	536.7
125-090000	209.092	1.000	312.5	541.5
125-100000	182.764	1.000	312.5	544.1
125-110000	182.764	1.000	312.5	540.9
125-120000	209.092	1.000	312.5	536
125-130000	209.092	1.000	312.5	527.8
125-140000	209.092	1.000	312.5	519.1
125-150000	209.092	1.000	312.5	509.7
125-160000	156.828	1.000	312.5	500.9
125-170000	104.546	1.000	312.5	494.7
125-180000	104.546	1.000	312.5	490.2
125-190000	104.546	1.000	312.5	486.9
125-200000	104.546	1.000	312.5	486.2
129-010000	90.006	1.000	312.5	508.9
130-010000	605.616	1.000	312.5	501.3
132-010000	34.487	1.000	312.5	500.9
135-010000	51.857	1.000	312.5	500.5
140-010000	61.586	1.000	312.5	500

Table HLt2-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	312.5	499.3
150-010000	102.591	1.000	312.5	498.7
155-010000	108.946	1.000	312.5	500.9
160-010000	413.100	1.000	312.6	542.7
165-010000	105.120	0.990	313.1	533.5
170-010000	105.120	0.997	313	530.6
175-010000	135.835	0.998	313.3	523.1
180-010000	116.691	1.000	312.9	507.8
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.977	300	299
205-010000	37.369	0.979	282.4	281.2
210-010000	30.231	0.999	251.1	255
215-010000	33.177	1.000	253.9	261.5
217-010000	11.496	1.000	260.6	280
220-010000	201.872	0.999	273.8	380.1
221-010000	30.002	0.999	273.9	416.3
225-010000	34.849	0.999	275.3	411.4
225-020000	34.849	0.999	276.8	408.1
225-030000	34.849	0.999	278.1	404.1
225-040000	34.849	0.999	279.4	401.6
225-050000	52.276	0.999	281	400.9
225-060000	69.697	0.999	283	400.1
225-070000	69.697	0.999	285.1	398.5
225-080000	69.697	0.999	287.1	396.9
225-090000	69.697	0.999	288.9	395.3
225-100000	60.921	0.999	290.5	391.8
225-110000	60.921	0.998	292	385.2
225-120000	69.697	0.998	293.4	380.4
225-130000	69.697	0.998	294.8	370.1
225-140000	69.697	0.998	296.1	353.9
225-150000	69.697	0.998	297.4	335.6

Table HLt2-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	0.997	298.8	300.4
225-170000	34.849	0.991	299.2	299.2
225-180000	34.849	0.976	299.4	299.4
225-190000	34.849	0.906	299.7	299.7
225-200000	34.849	0.741	300	300.6
229-010000	30.002	0.366	296.2	300.9
230-010000	201.872	0.180	284.8	301.4
232-010000	11.496	0.000	280.8	300.7
235-010000	17.286	0.000	281.2	300.6
240-010000	20.529	0.000	281.9	300.6
245-010000	38.892	0.000	283.3	299.8
250-010000	34.197	0.000	287.1	297.9
255-010000	36.315	0.003	292.1	292.4
260-010000	137.700	0.323	295.6	301.4
265-010000	35.040	0.990	308	360.5
270-010000	35.040	0.971	307.9	361.7
275-010000	45.278	0.977	307	362.8
280-010000	38.897	0.978	300.5	363.9
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.999	312.8	336.3
12-010000	184.160	0.922	283.3	368.6
14-010000	366.488	0.000	261.4	314.1
16-010000	414.895	0.000	229.4	316.9
18-010000	120.792	0.000	175	318.8
20-010000	212.629	0.000	141.1	319.7
22-010000	315.096	0.000	162.5	318.5
24-010000	45.438	0.000	168.2	317.6
26-010000	48.504	0.000	172.9	317.4
28-010000	48.504	0.000	178.2	317.1
30-010000	35.789	0.000	182.6	316.9
32-010000	35.789	0.000	187.3	316.7

Table HLt2-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
34-010000	35.789	0.000	192.4	316.5
36-010000	35.789	0.000	197.8	316.4
38-010000	35.789	0.000	203.7	316.2
40-010000	35.789	0.000	210	316
42-010000	35.789	0.000	216.4	315.8
44-010000	35.789	0.000	223	315.6
46-010000	35.789	0.000	229.8	315.5
48-010000	35.789	0.000	236.7	315.3
50-010000	35.789	0.000	243.7	315.1
52-010000	35.789	0.000	251	314.9
54-010000	33.109	0.000	258	314.7
56-010000	33.109	0.000	265.3	314.6
58-010000	33.109	0.000	272.8	314.4
60-010000	33.109	0.000	280.6	314.3
62-010000	33.109	0.000	288.5	314.1
64-010000	33.109	0.000	296.4	313.9
66-010000	33.109	0.000	303.8	313.8
68-010000	33.109	0.044	309.5	313.6
70-010000	33.109	0.219	312.2	313.4
72-010000	21.064	0.293	312.9	313.3
74-010000	21.064	0.373	313	313.1
76-010000	21.051	0.373	313	313
78-010000	86.638	0.544	312.9	312.9
80-010000	5.964	0.094	262.2	309.9
80-020000	4.483	0.988	309.8	309.7
80-030000	4.951	0.993	310.4	310.4
80-040000	5.894	0.999	309.9	309.9
82-010000	28.768	0.000	210	312
82-020000	21.625	0.000	260.3	310.7
82-030000	23.882	0.500	302.1	310
82-040000	28.430	0.976	309.6	309.6
84-010000	573.893	0.936	312.6	312.4
86-010000	276.840	0.974	312.4	314.4

Table HLt2-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
88-010000	202.853	1.000	331.1	330.7
88-020000	83.659	1.000	331.1	331
88-030000	182.966	0.995	331.1	331
90-010000	120.233	0.643	344.7	343.2
92-010000	505.835	0.555	345.8	343.9
94-010000	267.973	1.000	343.2	342.9
400-010000	82.382	0.998	361.7	361.6
408-010000	161.115	0.997	388.8	388.6
410-010000	395.598	1.000	388.8	388.5
410-020000	395.598	1.000	388.8	388.4
410-030000	395.598	1.000	388.8	388.4
410-040000	395.598	1.000	388.8	388.4
410-050000	395.598	1.000	388.8	388.4
410-060000	395.598	1.000	388.8	388.3
412-010000	161.115	1.000	388.8	388.3

Table HLt2-4: HL LOCA Case 7B: SG Metal Stored Energy (t= 30 seconds)

Table HLt2-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.2	558.12
1552-001	sg sep	63.1	549.89
1601-001	sg sep	63.2	558.86
1621-001	sg sep	63.2	558.77
1641-001	sg sep	63.2	558.47
1641-002	sg sep	63.2	559.85
1801-001	1-lp sg sh	65.3	558.4
1801-002	1-lp sg sh	65.3	558.05
1801-003	1-lp sg sh	65.3	557.25
1802-001	1-lp sg sh	65.3	558.7
1803-001	1-lp sg sh	65.3	558.92
1803-002	1-lp sg sh	65.3	558.81
1803-003	1-lp sg sh	65.3	558.85
1803-004	1-lp sg sh	65.3	558.76
1803-005	1-lp sg sh	65.3	558.74
1804-001	1-lp sg sh	65.3	558.7
1806-001	1-lp sg sh	65.1	550.51
1807-001	1-lp sg sh	62.9	536.44
1807-002	1-lp sg sh	62	478.16
1808-001	1-lp sg sh	62.9	535.5
1808-002	1-lp sg sh	62.8	530.25
1808-003	1-lp sg sh	62.7	526.74
1808-004	1-lp sg sh	62.7	524.3
1808-005	1-lp sg sh	62.7	523.1
1808-006	1-lp sg sh	62.7	523.19
1808-007	1-lp sg sh	62.7	523.94
1808-008	1-lp sg sh	62.7	525.64
1808-009	1-lp sg sh	62.7	526.43
1808-010	1-lp sg sh	62.1	485.94
1808-011	1-lp sg sh	62.2	490.18
1808-012	1-lp sg sh	62.3	494.73
1808-013	1-lp sg sh	62.4	502.32

Table HLt2-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	62.5	511.3
1808-015	1-lp sg sh	62.6	517.66
1808-016	1-lp sg sh	62.7	522.54
1808-017	1-lp sg sh	62.7	525.18
1808-018	1-lp sg sh	62.7	524.48
6241-001	DC sleeve	62.5	509.61
6241-002	DC sleeve	62.5	513.04
6241-003	DC sleeve	62.5	513.3
6241-004	DC sleeve	62.6	519.74
6301-001	hot DC	62.9	537.48
6301-002	hot DC	62.8	531.79
6301-003	hot DC	62.7	527.61
6301-004	hot DC	62.7	524.77
6301-005	hot DC	62.7	526.96
6301-006	hot DC	62.7	525.83
6301-007	hot DC	62.7	525.61
6301-008	hot DC	62.7	527.11
6301-009	hot DC	62.8	528.24
6301-010	hot DC	62.8	528.47
6301-011	hot DC	63	547.64
6311-001	cold DC	62	478.44
6311-002	cold DC	62	475.59
6311-003	cold DC	61.9	474.53
6311-004	cold DC	61.9	474.48
6311-005	cold DC	62	475.89
6311-006	cold DC	62	478.39
6311-007	cold DC	62	480.78
6311-008	cold DC	62.1	482.87
6311-009	cold DC	62.1	484.82
6311-010	cold DC	62.2	489.89
6311-011	cold DC	62.5	507.85

Table HLt2-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1543-001	sg sep	63.4	569.22
1553-001	sg sep	63.3	563.67
1602-001	sg sep	63.4	572.96
1622-001	sg sep	63.2	561.61
1642-001	sg sep	63.4	574.29
1642-002	sg sep	63.4	574.34
1901-001	3-lp sg sh	65.3	558.88
1901-002	3-lp sg sh	65.3	558.63
1901-003	3-lp sg sh	65.3	558.42
1902-001	3-lp sg sh	65.3	559.04
1903-001	3-lp sg sh	65.4	560.63
1903-002	3-lp sg sh	65.3	559.14
1903-003	3-lp sg sh	65.4	559.73
1903-004	3-lp sg sh	65.4	560.62
1903-005	3-lp sg sh	65.4	560.58
1904-001	3-lp sg sh	65.4	560.61
1906-001	3-lp sg sh	65.5	565.93
1907-001	3-lp sg sh	63.2	557.78
1907-002	3-lp sg sh	62.2	490.24
1908-001	3-lp sg sh	63.2	558.03
1908-002	3-lp sg sh	63.2	557.66
1908-003	3-lp sg sh	63.2	557.38
1908-004	3-lp sg sh	63.2	557.3
1908-005	3-lp sg sh	63.2	557.6
1908-006	3-lp sg sh	63.2	558.11
1908-007	3-lp sg sh	63.2	557.53
1908-008	3-lp sg sh	63.2	558.85
1908-009	3-lp sg sh	63.2	559.27
1908-010	3-lp sg sh	62.3	500.1
1908-011	3-lp sg sh	62.5	508.05
1908-012	3-lp sg sh	62.6	515.39
1908-013	3-lp sg sh	62.7	524.91
1908-014	3-lp sg sh	62.9	536.18

Table HLt2-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 30 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-015	3-lp sg sh	63	544.16
1908-016	3-lp sg sh	63.1	549.66
1908-017	3-lp sg sh	63.1	554.25
1908-018	3-lp sg sh	63.2	557.4
7241-001	3-lp DC sleeve	62.6	516.1
7241-002	3-lp DC sleeve	62.6	515.58
7241-003	3-lp DC sleeve	62.6	514.45
7241-004	3-lp DC sleeve	62.7	521.18
7301-001	3-lp DC	63.2	557.51
7301-002	3-lp DC	63.2	557.13
7301-003	3-lp DC	63.2	556.76
7301-004	3-lp DC	63.2	556.45
7301-005	3-lp DC	63.2	556.65
7301-006	3-lp DC	63.2	556.78
7301-007	3-lp DC	63.2	557.06
7301-008	3-lp DC	63.2	556.71
7301-009	3-lp DC	63.2	557.86
7301-010	3-lp DC	63.2	558.76
7301-011	3-lp DC	63.3	562.85
7311-001	3-lp DC cold	62.1	485.7
7311-002	3-lp DC cold	62.1	487.21
7311-003	3-lp DC cold	62.2	488.94
7311-004	3-lp DC cold	62.2	490.89
7311-005	3-lp DC cold	62.2	493.16
7311-006	3-lp DC cold	62.3	497.23
7311-007	3-lp DC cold	62.3	500.81
7311-008	3-lp DC cold	62.4	501.67
7311-009	3-lp DC cold	62.4	504.26
7311-010	3-lp DC cold	62.6	514.94
7311-011	3-lp DC cold	62.7	521.3

Table HLt2-5: HL LOCA Case 7B: SG Wall Film Conditions (t= 30 seconds)

Table HLt2-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	558.21	558.08	1.09840	0.30185
1552-001	sg sep	640-010000	623-010000	SS-316	548.94	550.78	0.11348	0.06886
1601-001	sg sep	642-010000	645-010000	SS-316	558.88	558.87	0.00182	0.00176
1621-001	sg sep	660-010000	660-010000	SS-316	559.01	559.01	0.00162	0.00162
1641-001	sg sep	645-010000	642-010000	SS-316	558.48	558.48	0.00187	0.00193
1641-002	sg sep	650-010000	650-010000	SS-316	559.85	559.85	0.00119	0.00119
1801-001	1-lp sg sh	625-020000	0	SA-508	556.36	558.81	0.10276	0.00000
1801-002	1-lp sg sh	625-030000	0	SA-508	555	558.58	0.10318	0.00000
1801-003	1-lp sg sh	625-040000	0	SA-508	550.09	558.42	0.10392	0.00000
1802-001	1-lp sg sh	625-010000	0	SA-508	557.26	558.97	0.04150	0.00000
1803-001	1-lp sg sh	645-010000	0	SA-508	558.8	558.95	0.00178	0.00000
1803-002	1-lp sg sh	623-010000	0	SA-508	557.29	559.09	0.03970	0.00000
1803-003	1-lp sg sh	639-010000	0	SA-508	557.65	559.09	0.23917	0.00000
1803-004	1-lp sg sh	650-010000	0	SA-508	559.05	558.69	0.00158	0.00000
1803-005	1-lp sg sh	660-010000	0	SA-508	559.02	558.68	0.00161	0.00000
1804-001	1-lp sg sh	670-010000	0	SA-508	559.03	558.63	0.00164	0.00000
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	545.23	550.72	0.07027	0.11888
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	530.48	530.48	0.08495	0.08495
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	473.33	473.33	0.08025	0.08025
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	524.86	524.86	0.08769	0.08769
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	517.76	517.76	0.08769	0.08769
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	512.96	512.96	0.08764	0.08764
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	509.64	509.64	0.08737	0.08737
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	507.79	507.79	0.08752	0.08752
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	507.5	507.5	0.08800	0.08800
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	508.09	508.09	0.08894	0.08894
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	510.06	510.06	0.08902	0.08902
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	511.52	511.52	0.08793	0.08793
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	474.59	474.59	0.09085	0.09085
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	475.34	475.34	0.09516	0.09516
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	477.49	477.49	0.09758	0.09758

Table HLt2-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	483.95	483.95	0.09686	0.09686
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	491.8	491.8	0.09678	0.09678
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	498.27	498.27	0.09651	0.09651
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	505.05	505.05	0.09296	0.09296
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	508.66	508.66	0.09119	0.09119
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	507.65	507.65	0.09090	0.09090
6241-001	DC sleeve	624-040000	625-040000	SS-316	494.09	519.83	0.22789	0.10392
6241-002	DC sleeve	624-030000	625-030000	SS-316	494.07	528.85	0.22772	0.10318
6241-003	DC sleeve	624-020000	625-020000	SS-316	493.22	531.45	0.22755	0.10276
6241-004	DC sleeve	624-010000	625-010000	SS-316	504.2	535.18	0.09102	0.10328
6301-001	hot DC	630-010000	625-040000	SS-316	529.52	536.64	0.08428	0.10392
6301-002	hot DC	630-020000	625-040000	SS-316	521.26	533.53	0.08541	0.10392
6301-003	hot DC	630-030000	625-040000	SS-316	515.19	531.26	0.08612	0.10392
6301-004	hot DC	630-040000	625-040000	SS-316	511.08	529.72	0.08653	0.10392
6301-005	hot DC	630-050000	625-030000	SS-316	509.61	537.96	0.08736	0.10318
6301-006	hot DC	630-060000	625-030000	SS-316	507.89	537.38	0.08758	0.10318
6301-007	hot DC	630-070000	625-030000	SS-316	507.3	537.36	0.08788	0.10318
6301-008	hot DC	632-010000	625-020000	SS-316	507.49	540.85	0.08861	0.10276
6301-009	hot DC	634-010000	625-020000	SS-316	509	541.54	0.08843	0.10276
6301-010	hot DC	636-010000	625-010000	SS-316	510.59	541.57	0.08739	0.08857
6301-011	hot DC	638-010000	625-010000	SS-316	541.29	551.56	0.06590	0.05228
6311-001	cold DC	631-010000	624-040000	SS-316	470.54	482.41	0.07824	0.22789
6311-002	cold DC	631-020000	624-040000	SS-316	462.84	481.92	0.08502	0.22789
6311-003	cold DC	631-030000	624-040000	SS-316	458.98	481.92	0.08821	0.22789
6311-004	cold DC	631-040000	624-040000	SS-316	457.54	482.15	0.08976	0.22789
6311-005	cold DC	631-050000	624-030000	SS-316	461.44	481.89	0.08730	0.22772
6311-006	cold DC	631-060000	624-030000	SS-316	465.94	482.74	0.08507	0.22772
6311-007	cold DC	631-070000	624-030000	SS-316	470.57	483.48	0.08323	0.22772
6311-008	cold DC	633-010000	624-020000	SS-316	477.45	483.11	0.07636	0.22755
6311-009	cold DC	635-010000	624-020000	SS-316	481.3	483.71	0.07262	0.22755
6311-010	cold DC	637-010000	624-010000	SS-316	484.33	489.99	0.07584	0.06924
6311-011	cold DC	638-010000	624-010000	SS-316	514.09	499.11	0.05102	0.08211

Table HLt2-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	568.97	569.45	0.04101	0.14964
1553-001	sg sep	740-010000	723-010000	SS-316	563.86	563.4	0.02765	0.05369
1602-001	sg sep	742-010000	745-010000	SS-316	573.79	573.97	0.44648	0.49520
1622-001	sg sep	760-010000	760-010000	SS-316	569.84	569.84	0.33636	0.33636
1642-001	sg sep	745-010000	742-010000	SS-316	574.46	574.38	0.66674	0.59786
1642-002	sg sep	750-010000	750-010000	SS-316	574.46	574.47	0.83147	0.83838
1901-001	3-lp sg sh	725-020000	0	SA-508	559.09	558.8	0.10742	0.00000
1901-002	3-lp sg sh	725-030000	0	SA-508	558.72	558.58	0.10758	0.00000
1901-003	3-lp sg sh	725-040000	0	SA-508	558.23	558.42	0.10780	0.00000
1902-001	3-lp sg sh	725-010000	0	SA-508	559.35	558.97	0.04184	0.00000
1903-001	3-lp sg sh	745-010000	0	SA-508	570	558.95	0.30908	0.00000
1903-002	3-lp sg sh	723-010000	0	SA-508	559.4	559.09	0.03875	0.00000
1903-003	3-lp sg sh	739-010000	0	SA-508	563.7	559.08	0.10634	0.00000
1903-004	3-lp sg sh	750-010000	0	SA-508	570.94	558.69	0.37580	0.00000
1903-005	3-lp sg sh	760-010000	0	SA-508	570.73	558.68	0.35416	0.00000
1904-001	3-lp sg sh	770-010000	0	SA-508	571.22	558.63	0.41450	0.00000
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	565.38	566.15	0.03947	0.02937
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	557.25	557.25	0.05504	0.05504
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	489.14	489.14	0.07879	0.07879
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	557.06	557.06	0.05603	0.05603
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	556.46	556.46	0.05697	0.05697
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	555.97	555.97	0.05773	0.05773
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	555.73	555.73	0.05812	0.05812
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	555.99	555.99	0.05904	0.05904
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	556.51	556.51	0.06207	0.06207
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	555.42	555.42	0.06852	0.06852
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	557.41	557.41	0.06255	0.06255
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	558.06	558.06	0.06007	0.06007
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	496.4	496.4	0.07880	0.07880
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	502.78	502.78	0.07882	0.07882
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	509.09	509.09	0.07883	0.07883

Table HLt2-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 30 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	517.99	517.99	0.07886	0.07886
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	528.98	528.98	0.07872	0.07872
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	537.58	537.58	0.07851	0.07851
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	544.76	544.76	0.07580	0.07580
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	551.12	551.12	0.07118	0.07118
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	555.13	555.13	0.06751	0.06751
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	495.05	534.99	0.23656	0.10780
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	493.69	535.44	0.23628	0.10758
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	492.14	535.09	0.23602	0.10742
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	504.2	538.04	0.09226	0.10613
7301-001	3-lp DC	730-010000	725-040000	SS-316	556.88	557.25	0.05504	0.10780
7301-002	3-lp DC	730-020000	725-040000	SS-316	556.35	557.04	0.05514	0.10780
7301-003	3-lp DC	730-030000	725-040000	SS-316	555.79	556.84	0.05525	0.10780
7301-004	3-lp DC	730-040000	725-040000	SS-316	555.31	556.69	0.05600	0.10780
7301-005	3-lp DC	730-050000	725-030000	SS-316	555.18	557.44	0.05672	0.10758
7301-006	3-lp DC	730-060000	725-030000	SS-316	555.27	557.55	0.05726	0.10758
7301-007	3-lp DC	730-070000	725-030000	SS-316	555.39	557.79	0.05968	0.10758
7301-008	3-lp DC	732-010000	725-020000	SS-316	553.89	558.08	0.06614	0.10742
7301-009	3-lp DC	734-010000	725-020000	SS-316	556.2	558.53	0.06001	0.10742
7301-010	3-lp DC	736-010000	725-010000	SS-316	557.25	559.49	0.05816	0.04184
7301-011	3-lp DC	738-010000	725-010000	SS-316	563.08	562.25	0.02662	0.04759
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	486.08	483.99	0.07879	0.23656
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	488.03	484.65	0.07880	0.23656
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	490.26	485.4	0.07882	0.23656
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	492.94	486.21	0.07883	0.23656
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	497.21	485.98	0.07886	0.23628
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	503.69	487.47	0.07872	0.23628
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	509.64	488.73	0.07851	0.23628
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	512.76	487.85	0.07014	0.23602
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	518.04	488.58	0.07714	0.23602
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	526.74	501.64	0.07574	0.08811
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	536.91	504.71	0.07749	0.09305

Table HLt2-6: HL LOCA Case 7B: SG Fluid Conditions (t= 30 seconds)

Table HLt2-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	556.03	558.45
623-010000	366.645	0.000	555.98	558.45
624-010000	155.893	0.000	481.78	558.65
624-020000	43.006	0.000	481.35	559.01
624-030000	59.135	0.000	482.08	559.45
624-040000	43.006	0.000	483.03	559.89
625-010000	180.020	0.000	555.21	558.68
625-020000	73.345	0.000	550.68	559.01
625-030000	100.851	0.000	542.64	559.42
625-040000	73.345	0.000	522.63	559.83
630-010000	70.116	0.000	499.91	559.97
630-020000	70.116	0.000	488.8	559.87
630-030000	70.116	0.000	480.71	559.78
630-040000	70.116	0.000	475.35	559.69
630-050000	105.180	0.000	472.12	559.57
630-060000	140.232	0.000	469.75	559.41
630-070000	140.232	0.000	468.48	559.22
631-010000	70.116	0.000	444.34	560.01
631-020000	70.116	0.000	424.25	559.91
631-030000	70.116	0.000	412.78	559.82
631-040000	70.116	0.000	407.24	559.72
631-050000	105.180	0.000	417.75	559.6
631-060000	140.232	0.000	427.62	559.42
631-070000	140.232	0.000	436.29	559.23
632-010000	140.232	0.000	467.22	559.04
633-010000	140.232	0.000	454.37	559.04
634-010000	140.232	0.000	469.31	558.85
635-010000	140.232	0.000	462.89	558.85
636-010000	86.672	0.000	473.19	558.7
637-010000	86.672	0.000	462.4	558.7
638-010000	609.522	0.000	522.71	558.52
639-010000	635.282	0.348	556.25	560.98

Table HLt2-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.150	532.89	561.38
641-010000	117.514	1.000	558.28	560.67
642-010000	320.019	1.000	558.27	561.1
645-010000	1075.296	1.000	558.28	560.85
650-010000	830.204	1.000	558.26	560.46
660-010000	703.676	1.000	558.25	560.54
670-010000	400.000	1.000	558.24	560.62
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	560.3	574.84
723-010000	1099.935	0.000	560.63	574.84
724-010000	467.679	0.000	480.6	575.01
724-020000	129.019	0.000	479.52	575.33
724-030000	177.404	0.000	480.61	575.73
724-040000	129.019	0.000	482.19	576.13
725-010000	540.019	0.000	559.38	575.05
725-020000	220.035	0.000	558.13	575.35
725-030000	302.553	0.000	557.38	575.71
725-040000	220.035	0.000	555.49	576.07
730-010000	210.349	0.000	552.86	576.19
730-020000	210.349	0.000	551.99	576.11
730-030000	210.349	0.000	551.02	576.04
730-040000	210.349	0.000	550.22	575.96
730-050000	315.541	0.000	549.81	575.87
730-060000	420.697	0.000	549.69	575.73
730-070000	420.697	0.000	548.78	575.58
731-010000	210.349	0.000	484.33	576.25
731-020000	210.349	0.000	486.28	576.16
731-030000	210.349	0.000	488.39	576.08
731-040000	210.349	0.000	491.24	576
731-050000	315.541	0.000	497.36	575.89
731-060000	420.697	0.000	507.21	575.75

Table HLt2-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 30 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.000	517.19	575.59
732-010000	420.697	0.000	543.74	575.42
733-010000	420.697	0.000	526.3	575.43
734-010000	420.697	0.000	549.46	575.27
735-010000	420.697	0.000	537.22	575.27
736-010000	260.017	0.000	551.36	575.14
737-010000	260.017	0.000	544.15	575.14
738-010000	1828.567	0.000	562.06	574.99
739-010000	1905.846	0.257	562.33	582.63
740-010000	375.926	0.000	564.92	574.83
741-010000	352.543	0.000	566.16	574.71
742-010000	960.056	0.926	566.46	578.65
745-010000	3225.888	0.999	570.36	582.61
750-010000	2490.612	1.000	574.62	579.99
760-010000	2111.028	1.000	574.61	579.66
770-010000	1200.000	1.000	574.6	579.11

Table HLt3-1: HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

Table HLt3-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	57.5	219.50
1001-002	3-lp HL	57.5	218.78
1001-003	3-lp HL	57.5	218.57
1001-004	3-lp HL	57.4	216.62
1081-001	1-lp sg ch	64.0	612.86
1081-002	1-lp sg ch	60.4	379.11
1082-001	3-lp sg ch	60.4	377.36
1082-002	3-lp sg ch	63.2	557.96
1091-001	1-lp sg ch	60.9	404.26
1091-002	1-lp sg ch	57.6	215.28
1092-001	3-lp sg ch	57.5	211.64
1092-002	3-lp sg ch	61.5	433.24
1251-001	3-lp SG tube	57.5	209.30
1251-002	3-lp SG tube	57.5	209.24
1251-003	3-lp SG tube	57.4	208.95
1251-004	3-lp SG tube	57.5	212.41
1251-005	3-lp SG tube	58.2	251.71
1251-006	3-lp SG tube	59.4	317.60
1251-007	3-lp SG tube	59.7	335.29
1251-008	3-lp SG tube	60.1	357.67
1251-009	3-lp SG tube	60.2	360.68
1251-010	3-lp SG tube	60.2	365.53
1251-011	3-lp SG tube	60.2	364.34
1251-012	3-lp SG tube	60.2	361.57
1251-013	3-lp SG tube	60.2	361.62
1251-014	3-lp SG tube	60.5	380.29
1251-015	3-lp SG tube	60.7	390.25
1251-016	3-lp SG tube	60.8	398.14
1251-017	3-lp SG tube	60.9	401.74
1251-018	3-lp SG tube	60.9	404.59
1251-019	3-lp SG tube	61.0	405.97
1251-020	3-lp SG tube	61.0	406.76

Table HLt3-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	62.3	495.92
1401-002	3-lp CL	62.3	495.89
1401-003	3-lp CL	62.3	495.11
1401-004	3-lp CL	62.3	497.12
1401-005	3-lp CL	62.3	499.22
1401-006	3-lp CL	61.9	473.17
1701-001	3-lp CLd	59.8	345.06
1701-002	3-lp CLd	57.4	213.91
1701-003	3-lp CLd	57.3	207.21
1701-004	3-lp CLd	57.3	208.64
1905-001	3-lp sg sh	57.6	216.41
1805-001	1-lp sg sh	57.8	228.90
2001-001	1-lp HL	57.4	216.15
2001-002	1-lp HL	57.4	215.46
2001-003	1-lp HL	63.0	547.47
2001-004	1-lp HL	63.1	554.42
2251-001	sngl tube	61.1	416.38
2251-002	sngl tube	61.3	427.58
2251-003	sngl tube	61.4	432.14
2251-004	sngl tube	61.4	431.70
2251-005	sngl tube	61.4	433.08
2251-006	sngl tube	61.4	431.94
2251-007	sngl tube	61.4	430.87
2251-008	sngl tube	61.5	435.64
2251-009	sngl tube	61.5	437.11
2251-010	sngl tube	61.9	461.09
2251-011	sngl tube	61.9	461.12
2251-012	sngl tube	61.5	437.44
2251-013	sngl tube	61.5	434.63
2251-014	sngl tube	60.5	381.61
2251-015	sngl tube	59.7	336.69
2251-016	sngl tube	59.3	313.41

Table HLt3-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	58.9	289.18
2251-018	sngl tube	58.6	274.14
2251-019	sngl tube	58.5	265.46
2251-020	sngl tube	58.4	259.96
2401-001	1-lp CL suc	57.4	214.69
2401-002	1-lp CL suc	57.3	211.22
2401-003	1-lp CL suc	56.9	188.92
2401-004	1-lp CL suc	56.8	183.56
2401-005	1-lp CL suc	56.7	177.33
2401-006	1-lp CL suc	56.5	169.75
2701-001	1-lp CL dis	56.3	159.59
2701-002	1-lp CL dis	56.1	148.58
2701-003	1-lp CL dis	55.8	131.31
2701-004	1-lp CL dis	56.3	156.11
101-001	RPV head	63.5	557.55
101-002	RPV head	63.0	468.34
102-001	RPV head flange	63.1	531.40
103-001	RPV nozzle	61.1	395.28
103-002	RPV nozzle	61.0	388.70
104-001	RPV int shell	59.8	306.96
104-002	RPV int shell	59.7	300.21
104-003	RPV int shell	59.8	303.77
105-001	RPV lower shell	59.5	286.16
105-002	RPV lower shell	59.6	288.59
106-001	RPV lower hd	58.5	215.12
106-002	RPV lower hd	56.6	223.42
201-001	core barrel	57.2	203.04
201-002	core barrel	57.3	206.29
201-003	core barrel	57.2	202.05
201-004	core barrel	57.2	201.55
201-005	core barrel	57.2	201.65
201-006	core barrel	57.1	200.58

Table HLt3-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	56.8	183.28
203-001	fl dis dvce	56.8	183.86
204-001	HR	57.2	202.45
204-002	HR	57.2	203.03
204-003	HR	57.2	203.93
204-004	HR	57.2	204.90
204-005	HR	57.2	206.04
204-006	HR	57.3	207.34
204-007	HR	57.3	209.82
204-008	HR	57.3	211.39
204-009	HR	57.4	213.05
204-010	HR	57.4	214.78
204-011	HR	57.4	216.51
204-012	HR	57.5	218.11
204-013	HR	57.5	219.37
204-014	HR	57.5	220.36
204-015	HR	57.5	220.29
204-016	HR	57.5	220.11
204-017	HR	57.5	219.93
204-018	HR	57.5	219.75
204-019	HR	57.5	219.58
204-020	HR	57.5	219.68
204-021	HR	57.5	219.52
204-022	HR	57.5	219.37
204-023	HR	57.5	219.20
204-024	HR	57.5	219.04
204-025	HR	57.5	218.93
204-026	HR	57.5	218.81
204-027	HR	57.5	218.71
204-028	HR	57.5	218.48
205-001	UPR core plt	57.5	217.11
206-001	LMP	57.5	217.07
206-002	LMP	57.6	224.64

Table HLt3-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	62.1	482.31
208-001	CRGA	57.5	217.08
208-002	CRGA	57.4	216.24
208-003	CRGA	57.9	240.43
4001-001	pzr srg	64.2	513.80
4101-001	pzr srg	67.4	640.07
4101-002	pzr srg	67.6	646.92
4101-003	pzr srg	67.6	649.77
4101-004	pzr srg	67.7	652.31
4101-005	pzr srg	67.7	653.28
4101-006	pzr srg	67.7	653.46
4201-001	prz hd	67.2	631.16
4301-001	prz upr hd	67.8	654.75
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	40.6	187.96
301-002	FUEL ASS	40.7	197.25
301-003	FUEL ASS	40.8	203.85
301-004	FUEL ASS	40.9	209.87
301-005	FUEL ASS	41.0	215.44
301-006	FUEL ASS	41.1	220.96
301-007	FUEL ASS	41.2	226.58
301-008	FUEL ASS	41.3	232.09
301-009	FUEL ASS	41.3	237.46
301-010	FUEL ASS	41.4	242.58
301-011	FUEL ASS	41.5	247.03
301-012	FUEL ASS	41.5	249.73
301-013	FUEL ASS	41.6	250.97
301-014	FUEL ASS	41.6	251.70
301-015	FUEL ASS	41.6	251.29
301-016	FUEL ASS	41.5	249.93

Table HLt3-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	41.5	248.26
301-018	FUEL ASS	41.5	246.40
301-019	FUEL ASS	41.5	244.47
301-020	FUEL ASS	41.4	242.39
301-021	FUEL ASS	41.4	239.88
301-022	FUEL ASS	41.3	236.83
301-023	FUEL ASS	41.3	233.41
301-024	FUEL ASS	41.2	230.35
301-025	FUEL ASS	41.2	227.85
301-026	FUEL ASS	41.2	226.02
301-027	FUEL ASS	41.1	224.12
301-028	FUEL ASS	41.0	217.85
301-001	Fuel Cladding	29.1	187.96
301-002	Fuel Cladding	29.1	197.25
301-003	Fuel Cladding	29.2	203.85
301-004	Fuel Cladding	29.2	209.87
301-005	Fuel Cladding	29.2	215.44
301-006	Fuel Cladding	29.2	220.96
301-007	Fuel Cladding	29.3	226.58
301-008	Fuel Cladding	29.3	232.09
301-009	Fuel Cladding	29.3	237.46
301-010	Fuel Cladding	29.3	242.58
301-011	Fuel Cladding	29.4	247.03
301-012	Fuel Cladding	29.4	249.73
301-013	Fuel Cladding	29.4	250.97
301-014	Fuel Cladding	29.4	251.70
301-015	Fuel Cladding	29.4	251.29
301-016	Fuel Cladding	29.4	249.93
301-017	Fuel Cladding	29.4	248.26
301-018	Fuel Cladding	29.4	246.40
301-019	Fuel Cladding	29.4	244.47
301-020	Fuel Cladding	29.3	242.39
301-021	Fuel Cladding	29.3	239.88

Table HLt3-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	Fuel Cladding	29.3	236.83
301-023	Fuel Cladding	29.3	233.41
301-024	Fuel Cladding	29.3	230.35
301-025	Fuel Cladding	29.3	227.85
301-026	Fuel Cladding	29.3	226.02
301-027	Fuel Cladding	29.3	224.12
301-028	Fuel Cladding	29.2	217.85

Table HLt3-2: HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

Table HLt3-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	215.78	221.47	0.15336	0
1001-002	3-lp HL	105-010000	0	SS-316	215.28	220.62	0.16425	0
1001-003	3-lp HL	110-010000	0	SS-316	215.13	220.44	0.16280	0
1001-004	3-lp HL	115-010000	0	SS-316	213.91	218.02	0.21321	0
1081-001	1-lp sg ch	220-010000	0	SS-316	609.61	614.52	0.00023	0
1081-002	1-lp sg ch	230-010000	0	SS-316	374.63	382.51	0.00020	0
1082-001	3-lp sg ch	120-010000	0	SS-316	228.28	454.84	0.15919	0
1082-002	3-lp sg ch	130-010000	0	SS-316	554.08	559.7	0.00019	0
1091-001	1-lp sg ch	221-010000	0	alloy690	404.26	404.26	0.00043	0
1091-002	1-lp sg ch	229-010000	0	alloy690	215.28	215.28	0.00032	0
1092-001	3-lp sg ch	121-010000	0	alloy690	211.62	211.65	0.00266	0
1092-002	3-lp sg ch	129-010000	0	alloy690	433.2	433.26	0.00105	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	209.22	209.38	0.08099	0.04351
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	209.17	209.31	0.08045	0.04274
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	208.89	209.02	0.07631	0.04425
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	212.36	212.49	0.00642	0.04643
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	251.63	251.82	0.00077	0.05458
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	317.54	317.67	0.00075	0.05106
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	335.23	335.34	0.00075	0.04969
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	357.61	357.74	0.00079	0.05227
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	360.61	360.74	0.00083	0.05234
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	365.47	365.6	0.00097	0.05226
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	364.28	364.4	0.00100	0.05159
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	361.52	361.62	0.00101	0.05007
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	361.58	361.66	0.00102	0.04878
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	380.26	380.33	0.00103	0.04965
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	390.23	390.28	0.00104	0.04945
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	398.11	398.17	0.00105	0.04959
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	401.72	401.77	0.00105	0.04940
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	404.57	404.61	0.00105	0.04923
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	405.95	405.99	0.00105	0.04891

Table HLt3-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	406.74	406.79	0.00105	0.04871
1401-001	3-lp CL	135-010000	0	SS-316	485.19	501.15	0.00112	0
1401-002	3-lp CL	140-010000	0	SS-316	484.93	501.21	0.00112	0
1401-003	3-lp CL	145-010000	0	SS-316	484.1	500.45	0.00112	0
1401-004	3-lp CL	150-010000	0	SS-316	486.06	502.47	0.00113	0
1401-005	3-lp CL	155-010000	0	SS-316	488.28	504.55	0.00113	0
1401-006	3-lp CL	160-010000	0	SS-316	460.8	479.21	0.00101	0
1701-001	3-lp CLd	165-010000	0	SS-316	332.08	352.17	0.00182	0
1701-002	3-lp CLd	170-010000	0	SS-316	207.24	217.27	0.27501	0
1701-003	3-lp CLd	175-010000	0	SS-316	204.47	208.59	0.13604	0
1701-004	3-lp CLd	180-010000	0	SS-316	205.73	210.08	0.16233	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	213.75	218.08	0.06178	0.00019
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	229.7	228.54	0.00019	0.00012
2001-001	1-lp HL	200-010000	0	SS-316	214.22	217.21	0.42851	0
2001-002	1-lp HL	205-010000	0	SS-316	213.46	216.55	0.54215	0
2001-003	1-lp HL	210-010000	0	SS-316	545.11	548.68	0.00026	0
2001-004	1-lp HL	215-010000	0	SS-316	552.43	555.44	0.00025	0
2251-001	sngl tube	225-010000	630-010000	alloy690	416.38	416.38	0.00044	0.02547
2251-002	sngl tube	225-020000	630-020000	alloy690	427.58	427.58	0.00044	0.02544
2251-003	sngl tube	225-030000	630-030000	alloy690	432.14	432.14	0.00045	0.02410
2251-004	sngl tube	225-040000	630-040000	alloy690	431.7	431.7	0.00045	0.02231
2251-005	sngl tube	225-050000	630-050000	alloy690	433.08	433.08	0.00045	0.01815
2251-006	sngl tube	225-060000	630-060000	alloy690	431.94	431.94	0.00045	0.01817
2251-007	sngl tube	225-070000	630-070000	alloy690	430.87	430.87	0.00045	0.01818
2251-008	sngl tube	225-080000	632-010000	alloy690	435.64	435.65	0.00045	0.02053
2251-009	sngl tube	225-090000	634-010000	alloy690	437.11	437.11	0.00045	0.01993
2251-010	sngl tube	225-100000	636-010000	alloy690	461.09	461.09	0.00047	0.02510
2251-011	sngl tube	225-110000	637-010000	alloy690	461.12	461.12	0.00047	0.02432
2251-012	sngl tube	225-120000	635-010000	alloy690	437.44	437.44	0.00045	0.01808
2251-013	sngl tube	225-130000	633-010000	alloy690	434.63	434.63	0.00045	0.02157
2251-014	sngl tube	225-140000	631-070000	alloy690	381.61	381.61	0.00041	0.02499

Table HLt3-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	336.69	336.7	0.00038	0.02591
2251-016	sngl tube	225-160000	631-050000	alloy690	313.41	313.41	0.00037	0.02586
2251-017	sngl tube	225-170000	631-040000	alloy690	289.18	289.18	0.00036	0.02436
2251-018	sngl tube	225-180000	631-030000	alloy690	274.14	274.14	0.00035	0.02333
2251-019	sngl tube	225-190000	631-020000	alloy690	265.46	265.46	0.00034	0.02264
2251-020	sngl tube	225-200000	631-010000	alloy690	259.96	259.96	0.00034	0.02269
2401-001	1-lp CL suc	235-010000	0	SS-316	214.25	215.09	0.00013	0
2401-002	1-lp CL suc	240-010000	0	SS-316	212.02	211.02	0.76554	0
2401-003	1-lp CL suc	245-010000	0	SS-316	183.3	191.81	0.02571	0
2401-004	1-lp CL suc	250-010000	0	SS-316	178.51	186.2	0.02540	0
2401-005	1-lp CL suc	255-010000	0	SS-316	172.45	179.89	0.02435	0
2401-006	1-lp CL suc	260-010000	0	SS-316	165.11	172.2	0.02325	0
2701-001	1-lp CL dis	265-010000	0	SS-316	154.7	162.09	0.02292	0
2701-002	1-lp CL dis	270-010000	0	SS-316	143.1	151.32	0.02239	0
2701-003	1-lp CL dis	275-010000	0	SS-316	125.45	134.28	0.05410	0
2701-004	1-lp CL dis	280-010000	0	SS-316	154.3	157.35	0.06895	0
101-001	RPV head	94-010000	0	alloy600	551.82	560.42	0.00031	0
101-002	RPV head	90-010000	0	SA-508	456.74	477.03	0.00041	0
102-001	RPV head flange	90-010000	0	alloy600	475.81	562.31	0.00042	0
103-001	RPV nozzle	10-010000	0	alloy600	195.72	488.7	0.13410	0
103-002	RPV nozzle	12-010000	0	alloy600	205.4	478.09	0.16110	0
104-001	RPV int shell	12-010000	0	alloy600	203.48	359.63	0.13014	0
104-002	RPV int shell	14-010000	0	alloy600	204.03	349.78	0.04603	0
104-003	RPV int shell	16-010000	0	alloy600	208.13	353.05	0.04835	0
105-001	RPV lower shell	16-010000	0	alloy600	205.93	327.25	0.04677	0
105-002	RPV lower shell	18-010000	0	alloy600	208.22	329.74	0.04782	0
106-001	RPV lower hd	18-010000	0	alloy600	193.42	227.02	0.03443	0
106-002	RPV lower hd	20-010000	0	SA-508	200.21	235.94	0.03423	0
201-001	core barrel	10-010000	86-010000	SS-316	188.04	215.18	0.12837	0.72977
201-002	core barrel	12-010000	84-010000	SS-316	195.61	216.4	0.18515	0.33539
201-003	core barrel	14-010000	80-040000	SS-316	185.96	217.97	0.02724	0.38009

Table HLt3-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	185.8	217.19	0.02698	0.30817
201-005	core barrel	16-010000	80-020000	SS-316	187.03	216.51	0.02702	0.29320
201-006	core barrel	16-010000	80-010000	SS-316	186.69	215.05	0.02644	0.29225
202-001	low sup plate	22-010000	0	SS-316	183.48	183.19	0.01580	0
203-001	fl dis dvce	22-010000	0	SS-316	183.86	183.87	0.01580	0
204-001	HR	24-010000	80-010000	SS-316	190.64	215.32	0.04791	0.29225
204-002	HR	26-010000	80-010000	SS-316	191.64	215.36	0.04800	0.29225
204-003	HR	28-010000	80-010000	SS-316	193.38	215.41	0.04824	0.29225
204-004	HR	30-010000	80-010000	SS-316	195.28	215.48	0.04855	0.29225
204-005	HR	32-010000	80-010000	SS-316	197.52	215.55	0.04892	0.29225
204-006	HR	34-010000	80-010000	SS-316	200.05	215.63	0.04933	0.29225
204-007	HR	36-010000	80-020000	SS-316	203.05	217.19	0.04973	0.29320
204-008	HR	38-010000	80-020000	SS-316	206.08	217.29	0.05015	0.29320
204-009	HR	40-010000	80-020000	SS-316	209.28	217.39	0.05059	0.29320
204-010	HR	42-010000	80-020000	SS-316	212.62	217.5	0.05104	0.29320
204-011	HR	44-010000	80-020000	SS-316	215.97	217.61	0.05149	0.29320
204-012	HR	46-010000	80-020000	SS-316	219.07	217.71	0.05100	0.29320
204-013	HR	48-010000	80-020000	SS-316	221.52	217.79	0.05166	0.29320
204-014	HR	50-010000	80-030000	SS-316	222.84	218.42	0.02764	0.30817
204-015	HR	52-010000	80-030000	SS-316	222.63	218.42	0.12180	0.30817
204-016	HR	54-010000	80-030000	SS-316	222.32	218.41	0.15008	0.30817
204-017	HR	56-010000	80-030000	SS-316	222.01	218.4	0.12004	0.30817
204-018	HR	58-010000	80-030000	SS-316	221.68	218.39	0.12958	0.30817
204-019	HR	60-010000	80-030000	SS-316	221.35	218.38	0.16320	0.30817
204-020	HR	62-010000	80-040000	SS-316	221.02	218.86	0.20514	0.38790
204-021	HR	64-010000	80-040000	SS-316	220.69	218.86	0.23279	0.38781
204-022	HR	66-010000	80-040000	SS-316	220.37	218.85	0.24043	0.38773
204-023	HR	68-010000	80-040000	SS-316	220.06	218.84	0.24412	0.38765
204-024	HR	70-010000	80-040000	SS-316	219.8	218.84	0.27803	0.38757
204-025	HR	72-010000	80-040000	SS-316	219.62	218.83	0.31294	0.38751
204-026	HR	74-010000	80-040000	SS-316	219.46	218.83	0.26337	0.38746
204-027	HR	76-010000	80-040000	SS-316	219.25	218.82	0.26194	0.38741

Table HLt3-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	218.62	218.81	1.02650	0.38729
205-001	UPR core plt	84-010000	0	SS-316	217.13	217.1	0.38355	0
206-001	LMP	84-010000	0	SS-316	217.21	217.01	0.39144	0
206-002	LMP	86-010000	0	SS-316	223.21	225.35	0.04753	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	479.8	478.57	0.00049	0.00028
208-001	CRGA	84-010000	0	SS-316	217.22	217.02	0.39257	0
208-002	CRGA	86-010000	0	SS-316	216.32	216.2	0.00591	0
208-003	CRGA	92-010000	0	SS-316	240.42	240.43	0.00012	0
4001-001	pzr srg	400-010000	0	SA-508	513.08	514.17	0.00091	0
4101-001	pzr srg	410-010000	0	SA-508	638.88	640.71	0.00018	0
4101-002	pzr srg	410-020000	0	SA-508	646.17	647.32	0.00016	0
4101-003	pzr srg	410-030000	0	SA-508	649.31	650.02	0.00014	0
4101-004	pzr srg	410-040000	0	SA-508	652.03	652.46	0.00012	0
4101-005	pzr srg	410-050000	0	SA-508	653.11	653.37	0.00011	0
4101-006	pzr srg	410-060000	0	SA-508	653.36	653.51	0.00010	0
4201-001	prz hd	408-010000	0	SA-508	628.69	632.45	0.00023	0
4301-001	prz upr hd	412-010000	0	SA-508	654.72	654.77	0.00008	0
						Surface Temp	Surface Temp	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table HLt3-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		188.5		0.04791
301-002	Fuel Cladding	0	26-010000	cladding		193.03		0.04800
301-003	Fuel Cladding	0	28-010000	cladding		197.7		0.04824
301-004	Fuel Cladding	0	30-010000	cladding		202.15		0.04855
301-005	Fuel Cladding	0	32-010000	cladding		206.46		0.04892
301-006	Fuel Cladding	0	34-010000	cladding		210.9		0.04933
301-007	Fuel Cladding	0	36-010000	cladding		215.43		0.04973
301-008	Fuel Cladding	0	38-010000	cladding		219.99		0.05015
301-009	Fuel Cladding	0	40-010000	cladding		224.53		0.05059
301-010	Fuel Cladding	0	42-010000	cladding		228.97		0.05104
301-011	Fuel Cladding	0	44-010000	cladding		232.54		0.05149
301-012	Fuel Cladding	0	46-010000	cladding		234.17		0.05623
301-013	Fuel Cladding	0	48-010000	cladding		234.81		0.06271
301-014	Fuel Cladding	0	50-010000	cladding		235.21		0.04305
301-015	Fuel Cladding	0	52-010000	cladding		233.71		0.09399

Table HLt3-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		231.52		0.12519
301-017	Fuel Cladding	0	56-010000	cladding		232.07		0.03834
301-018	Fuel Cladding	0	58-010000	cladding		232.09		0.03999
301-019	Fuel Cladding	0	60-010000	cladding		230.89		0.07083
301-020	Fuel Cladding	0	62-010000	cladding		229.19		0.12618
301-021	Fuel Cladding	0	64-010000	cladding		228.06		0.15040
301-022	Fuel Cladding	0	66-010000	cladding		226.14		0.14691
301-023	Fuel Cladding	0	68-010000	cladding		223.99		0.12497
301-024	Fuel Cladding	0	70-010000	cladding		222.44		0.16934
301-025	Fuel Cladding	0	72-010000	cladding		221.78		0.21801
301-026	Fuel Cladding	0	74-010000	cladding		221.41		0.08305
301-027	Fuel Cladding	0	76-010000	cladding		220.5		0.14046
301-028	Fuel Cladding	0	78-010000	cladding		218.3		0.02389

Table HLt3-3: HL LOCA Case 7B: RCS Fluid Conditions (t= 3957 seconds)

Table HLt3-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.679	214.3	217.3
105-010000	112.108	0.633	213.7	217.6
110-010000	90.692	0.750	213.4	242.1
115-010000	99.530	0.692	212.4	214.1
117-010000	34.487	0.701	211	210.2
120-010000	605.616	0.685	208.4	210.1
121-010000	90.006	0.999	208.3	208.6
125-010000	104.546	0.998	208.3	208.7
125-020000	104.546	0.998	208.3	208.6
125-030000	104.546	0.998	208.3	208.6
125-040000	104.546	0.998	208.2	209.2
125-050000	156.828	0.997	208.2	214.1
125-060000	209.092	0.998	208.2	223.8
125-070000	209.092	1.000	208.2	240.4
125-080000	209.092	1.000	208.2	249.3
125-090000	209.092	1.000	208.2	258.3
125-100000	182.764	1.000	208.1	274.6
125-110000	182.764	1.000	208.1	286.7
125-120000	209.092	1.000	208.1	298.6
125-130000	209.092	1.000	208.1	320.1
125-140000	209.092	1.000	208.1	352.4
125-150000	209.092	1.000	208.1	375.3
125-160000	156.828	1.000	208.1	388.4
125-170000	104.546	1.000	208.1	395
125-180000	104.546	1.000	208.1	400
125-190000	104.546	1.000	208.1	403.3
125-200000	104.546	1.000	208	405.4
129-010000	90.006	1.000	208	417.6
130-010000	605.616	1.000	208	396.1
132-010000	34.487	1.000	208	394.6
135-010000	51.857	1.000	208	393.3
140-010000	61.586	1.000	208	391.3

Table HLt3-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	208	386.4
150-010000	102.591	1.000	207.9	380.9
155-010000	108.946	1.000	207.9	373.8
160-010000	413.100	1.000	207.4	236.4
165-010000	105.120	0.973	186.3	238.8
170-010000	105.120	0.942	174.4	237.5
175-010000	135.835	0.950	128.3	234.6
180-010000	116.691	0.989	130.7	232
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.855	214.7	214.6
205-010000	37.369	0.831	213.4	213.4
210-010000	30.231	1.000	212	268.7
215-010000	33.177	1.000	212	299.9
217-010000	11.496	1.000	212	318.8
220-010000	201.872	1.000	212	367.5
221-010000	30.002	1.000	212	404.2
225-010000	34.849	1.000	212	416.5
225-020000	34.849	1.000	212	427.6
225-030000	34.849	1.000	212	432.1
225-040000	34.849	1.000	212	431.7
225-050000	52.276	1.000	212	433.1
225-060000	69.697	1.000	212	431.9
225-070000	69.697	1.000	212	430.9
225-080000	69.697	1.000	212	435.6
225-090000	69.697	1.000	212	437.2
225-100000	60.921	1.000	212	461.1
225-110000	60.921	1.000	212	461
225-120000	69.697	1.000	212	437.4
225-130000	69.697	1.000	212	434.4
225-140000	69.697	1.000	212	381.4
225-150000	69.697	1.000	212	336.6

Table HLt3-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	1.000	212	313.3
225-170000	34.849	1.000	212	289.1
225-180000	34.849	1.000	212	274.1
225-190000	34.849	1.000	212	265.4
225-200000	34.849	1.000	212	259.4
229-010000	30.002	1.000	212	216.5
230-010000	201.872	1.000	212	254.4
232-010000	11.496	1.000	212	252.8
235-010000	17.286	1.000	212	247.4
240-010000	20.529	0.924	180.8	220.5
245-010000	38.892	0.000	178.3	215.9
250-010000	34.197	0.000	173.3	219.1
255-010000	36.315	0.000	167.4	216.2
260-010000	137.700	0.000	160.2	210.5
265-010000	35.040	0.000	149.2	207.6
270-010000	35.040	0.000	136.8	207.6
275-010000	45.278	0.000	122.8	207.5
280-010000	38.897	0.000	154.1	207.4
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.279	177.3	215.5
12-010000	184.160	0.369	177.5	198.7
14-010000	366.488	0.000	179.3	212.6
16-010000	414.895	0.000	180.6	226.1
18-010000	120.792	0.000	181.8	233.6
20-010000	212.629	0.000	182.2	236.3
22-010000	315.096	0.000	183.9	233.1
24-010000	45.438	0.000	189.4	231
26-010000	48.504	0.000	189.8	230.2
28-010000	48.504	0.000	191.6	229.5
30-010000	35.789	0.000	193.8	228.8
32-010000	35.789	0.000	196.5	228.3

Table HLt3-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
34-010000	35.789	0.000	199.5	227.7
36-010000	35.789	0.000	202.7	227.1
38-010000	35.789	0.000	206.2	226.5
40-010000	35.789	0.000	209.8	225.9
42-010000	35.789	0.000	213.5	225.3
44-010000	35.789	0.000	217.3	224.7
46-010000	35.789	0.000	221	224.1
48-010000	35.789	0.001	223.8	223.5
50-010000	35.789	0.002	223.7	222.8
52-010000	35.789	0.060	223.1	221.3
54-010000	33.109	0.474	222.3	222
56-010000	33.109	0.564	221.8	221.6
58-010000	33.109	0.547	221.6	221.5
60-010000	33.109	0.589	221.3	221.2
62-010000	33.109	0.589	221	220.9
64-010000	33.109	0.592	220.7	220.6
66-010000	33.109	0.567	220.3	220.3
68-010000	33.109	0.599	219.9	219.8
70-010000	33.109	0.593	219.6	219.5
72-010000	21.064	0.479	219.4	219.3
74-010000	21.064	0.771	219	218.9
76-010000	21.051	0.873	218.9	218.9
78-010000	86.638	0.827	218.9	218.8
80-010000	5.964	0.000	216.4	232.6
80-020000	4.483	0.000	217.8	228.7
80-030000	4.951	0.000	218.4	225
80-040000	5.894	0.119	218.7	220.4
82-010000	28.768	0.000	210.3	229.8
82-020000	21.625	0.000	216	225.7
82-030000	23.882	0.000	217.5	221.8
82-040000	28.430	0.546	218.2	218.6
84-010000	573.893	0.641	217	218.5
86-010000	276.840	0.986	215.7	217.4

Table HLt3-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
88-010000	202.853	1.000	215.2	216.4
88-020000	83.659	1.000	215.2	216.2
88-030000	182.966	0.693	216	219.2
90-010000	120.233	0.992	214.8	218.6
92-010000	505.835	1.000	215.1	221.8
94-010000	267.973	1.000	215.1	219.6
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	0.999	213.8	458.6
408-010000	161.115	0.999	213.9	464.6
410-010000	395.598	1.000	213.8	514.1
410-020000	395.598	1.000	213.8	556.7
410-030000	395.598	1.000	213.8	585.9
410-040000	395.598	1.000	213.8	606.2
410-050000	395.598	1.000	213.8	620.4
410-060000	395.598	1.000	213.8	630.5
412-010000	161.115	1.000	213.8	639.3

Table HLt3-4: HL LOCA Case 7B: SG Metal Stored Energy (t= 3957 seconds)

Table HLt3-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.1	551.17
1552-001	sg sep	63.0	543.09
1601-001	sg sep	63.1	554.67
1621-001	sg sep	63.2	557.44
1641-001	sg sep	63.1	554.6
1641-002	sg sep	63.1	553.17
1801-001	1-lp sg sh	63.2	475.02
1801-002	1-lp sg sh	62.2	437.67
1801-003	1-lp sg sh	61.6	413.53
1802-001	1-lp sg sh	64.4	522.51
1803-001	1-lp sg sh	65.3	557.87
1803-002	1-lp sg sh	65.2	551.83
1803-003	1-lp sg sh	65.2	551.93
1803-004	1-lp sg sh	65.3	557.24
1803-005	1-lp sg sh	65.3	557.65
1804-001	1-lp sg sh	65.3	557.7
1806-001	1-lp sg sh	64.5	525.93
1807-001	1-lp sg sh	61.0	417.09
1807-002	1-lp sg sh	58.3	259.15
1808-001	1-lp sg sh	61.2	428.65
1808-002	1-lp sg sh	61.3	432.94
1808-003	1-lp sg sh	61.3	432.21
1808-004	1-lp sg sh	61.3	433.21
1808-005	1-lp sg sh	61.3	431.91
1808-006	1-lp sg sh	61.2	430.82
1808-007	1-lp sg sh	61.3	435.29
1808-008	1-lp sg sh	61.3	436.73
1808-009	1-lp sg sh	61.7	460.46
1808-010	1-lp sg sh	58.3	264.11
1808-011	1-lp sg sh	58.5	272.64
1808-012	1-lp sg sh	58.8	287.5
1808-013	1-lp sg sh	59.2	311.66

Table HLt3-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	59.6	335.04
1808-015	1-lp sg sh	60.4	380.37
1808-016	1-lp sg sh	61.3	434.22
1808-017	1-lp sg sh	61.3	437.06
1808-018	1-lp sg sh	61.7	460.48
6241-001	DC sleeve	60.1	361.27
6241-002	DC sleeve	60.7	400.48
6241-003	DC sleeve	61.5	448.03
6241-004	DC sleeve	62.3	497.73
6301-001	hot DC	60.9	409.42
6301-002	hot DC	61.0	415.17
6301-003	hot DC	61.0	417.47
6301-004	hot DC	61.0	417.22
6301-005	hot DC	61.2	430.87
6301-006	hot DC	61.2	430.24
6301-007	hot DC	61.2	429.66
6301-008	hot DC	61.6	451.18
6301-009	hot DC	61.6	451.9
6301-010	hot DC	62.2	488.37
6301-011	hot DC	62.5	511.49
6311-001	cold DC	58.8	288.42
6311-002	cold DC	58.8	291.05
6311-003	cold DC	58.9	295.25
6311-004	cold DC	59.0	302.66
6311-005	cold DC	59.7	341.98
6311-006	cold DC	59.9	353.29
6311-007	cold DC	60.3	377.01
6311-008	cold DC	61.3	431.52
6311-009	cold DC	61.3	433.01
6311-010	cold DC	61.9	471.53
6311-011	cold DC	62.3	495.01
1543-001	sg sep	63.1	551.59

Table HLt3-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	63.0	547.42
1602-001	sg sep	63.2	556.07
1622-001	sg sep	63.3	562.31
1642-001	sg sep	63.2	554.86
1642-002	sg sep	63.1	553.16
1901-001	3-lp sg sh	62.9	462.79
1901-002	3-lp sg sh	61.9	423.73
1901-003	3-lp sg sh	59.9	348.78
1902-001	3-lp sg sh	64.1	509.12
1903-001	3-lp sg sh	65.4	563.32
1903-002	3-lp sg sh	65.0	546.46
1903-003	3-lp sg sh	65.2	555.4
1903-004	3-lp sg sh	65.4	563.09
1903-005	3-lp sg sh	65.4	563.13
1904-001	3-lp sg sh	65.4	563.14
1906-001	3-lp sg sh	65.0	546.05
1907-001	3-lp sg sh	57.4	212.03
1907-002	3-lp sg sh	60.9	410.38
1908-001	3-lp sg sh	57.4	212.27
1908-002	3-lp sg sh	57.4	213.25
1908-003	3-lp sg sh	57.5	220.06
1908-004	3-lp sg sh	58.5	273.54
1908-005	3-lp sg sh	59.4	323.13
1908-006	3-lp sg sh	59.7	340
1908-007	3-lp sg sh	60.1	362.77
1908-008	3-lp sg sh	60.2	365.87
1908-009	3-lp sg sh	60.2	370.69
1908-010	3-lp sg sh	60.9	411.52
1908-011	3-lp sg sh	60.9	410.26
1908-012	3-lp sg sh	60.9	407.39
1908-013	3-lp sg sh	60.8	403.6
1908-014	3-lp sg sh	60.7	395.49
1908-015	3-lp sg sh	60.5	385.4

Table HLt3-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 3957 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	60.2	366.25
1908-017	3-lp sg sh	60.2	366.5
1908-018	3-lp sg sh	60.2	369.38
7241-001	3-lp DC sleeve	60.1	363.36
7241-002	3-lp DC sleeve	61.0	418.19
7241-003	3-lp DC sleeve	61.7	457.63
7241-004	3-lp DC sleeve	62.5	507.71
7301-001	3-lp DC	58.3	262.5
7301-002	3-lp DC	58.3	262.41
7301-003	3-lp DC	58.3	262.45
7301-004	3-lp DC	58.3	264.36
7301-005	3-lp DC	59.5	329.91
7301-006	3-lp DC	60.0	357.33
7301-007	3-lp DC	60.2	365.45
7301-008	3-lp DC	60.7	400.37
7301-009	3-lp DC	60.8	401.79
7301-010	3-lp DC	61.3	434.56
7301-011	3-lp DC	62.5	512.57
7311-001	3-lp DC cold	60.9	410.77
7311-002	3-lp DC cold	60.9	410.39
7311-003	3-lp DC cold	60.9	409.46
7311-004	3-lp DC cold	60.9	407.64
7311-005	3-lp DC cold	61.1	420.31
7311-006	3-lp DC cold	61.0	416.43
7311-007	3-lp DC cold	60.9	411.62
7311-008	3-lp DC cold	61.1	420.9
7311-009	3-lp DC cold	61.1	420.96
7311-010	3-lp DC cold	61.6	452.85
7311-011	3-lp DC cold	62.8	530.06

Table HLt3-5: HL LOCA Case 7B: SG Wall Film Conditions (t= 3957 seconds)

Table HLt3-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	551.19	551.15	1.8998	1.2191
1552-001	sg sep	640-010000	623-010000	SS-316	542.86	543.32	0.03716	0.04546
1601-001	sg sep	642-010000	645-010000	SS-316	554.67	554.68	0.00104	0.00062
1621-001	sg sep	660-010000	660-010000	SS-316	557.3	557.3	0.00164	0.00164
1641-001	sg sep	645-010000	642-010000	SS-316	554.6	554.6	0.00074	0.00099
1641-002	sg sep	650-010000	650-010000	SS-316	553.17	553.17	0.00045	0.00045
1801-001	1-lp sg sh	625-020000	0	SA-508	471.9	476.65	0.03867	0
1801-002	1-lp sg sh	625-030000	0	SA-508	433.46	439.86	0.04012	0
1801-003	1-lp sg sh	625-040000	0	SA-508	407.96	416.44	0.04222	0
1802-001	1-lp sg sh	625-010000	0	SA-508	517.18	525.32	0.05099	0
1803-001	1-lp sg sh	645-010000	0	SA-508	557.75	557.93	0.00186	0
1803-002	1-lp sg sh	623-010000	0	SA-508	551.52	551.99	0.05367	0
1803-003	1-lp sg sh	639-010000	0	SA-508	551.61	552.09	0.03354	0
1803-004	1-lp sg sh	650-010000	0	SA-508	557.06	557.33	0.00205	0
1803-005	1-lp sg sh	660-010000	0	SA-508	557.56	557.7	0.00171	0
1804-001	1-lp sg sh	670-010000	0	SA-508	557.63	557.74	0.00163	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	521.53	530.31	0.0557	0.06453
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	417.02	417.02	0.03124	0.03124
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	259.22	259.22	0.0269	0.0269
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	428.49	428.49	0.03408	0.03408
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	432.82	432.82	0.03188	0.03188
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	432.14	432.14	0.02868	0.02868
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	433.19	433.19	0.02042	0.02042
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	431.91	431.91	0.01363	0.01363
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	430.82	430.82	0.01573	0.01573
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	435.33	435.33	0.0264	0.0264
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	436.77	436.77	0.0267	0.0267
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	460.55	460.55	0.03096	0.03096
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	264.31	264.31	0.02999	0.02999
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	272.86	272.86	0.0312	0.0312
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	287.76	287.76	0.0328	0.0328

Table HLt3-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	311.94	311.94	0.03435	0.03435
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	335.3	335.3	0.03489	0.03489
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	380.56	380.56	0.03406	0.03406
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	434.27	434.27	0.0274	0.0274
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	437.11	437.11	0.02644	0.02644
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	460.57	460.57	0.03092	0.03092
6241-001	DC sleeve	624-040000	625-040000	SS-316	347.1	375.28	0.06248	0.06989
6241-002	DC sleeve	624-030000	625-030000	SS-316	391.39	409.49	0.05995	0.064
6241-003	DC sleeve	624-020000	625-020000	SS-316	441.89	454.11	0.0579	0.06043
6241-004	DC sleeve	624-010000	625-010000	SS-316	492.48	502.93	0.06761	0.0711
6301-001	hot DC	630-010000	625-040000	SS-316	411.39	407.4	0.05054	0.04089
6301-002	hot DC	630-020000	625-040000	SS-316	419.01	411.27	0.05841	0.04912
6301-003	hot DC	630-030000	625-040000	SS-316	422.14	412.77	0.06096	0.05179
6301-004	hot DC	630-040000	625-040000	SS-316	421.81	412.6	0.06078	0.05151
6301-005	hot DC	630-050000	625-030000	SS-316	431.39	430.33	0.03913	0.02915
6301-006	hot DC	630-060000	625-030000	SS-316	430.62	429.84	0.03674	0.02681
6301-007	hot DC	630-070000	625-030000	SS-316	429.92	429.39	0.03382	0.02427
6301-008	hot DC	632-010000	625-020000	SS-316	446.27	456.06	0.06208	0.05675
6301-009	hot DC	634-010000	625-020000	SS-316	447.25	456.51	0.06144	0.05585
6301-010	hot DC	636-010000	625-010000	SS-316	478.93	497.74	0.07197	0.08411
6301-011	hot DC	638-010000	625-010000	SS-316	511.22	511.75	0.02765	0.02957
6311-001	cold DC	631-010000	624-040000	SS-316	279.16	297.66	0.05855	0.0547
6311-002	cold DC	631-020000	624-040000	SS-316	282.82	299.28	0.05765	0.05295
6311-003	cold DC	631-030000	624-040000	SS-316	288.61	301.9	0.05589	0.0499
6311-004	cold DC	631-040000	624-040000	SS-316	298.66	306.71	0.05149	0.04343
6311-005	cold DC	631-050000	624-030000	SS-316	332.37	351.58	0.06357	0.06042
6311-006	cold DC	631-060000	624-030000	SS-316	348.07	358.53	0.05767	0.05099
6311-007	cold DC	631-070000	624-030000	SS-316	378.19	375.89	0.04518	0.03235
6311-008	cold DC	633-010000	624-020000	SS-316	432.28	430.78	0.0428	0.03135
6311-009	cold DC	635-010000	624-020000	SS-316	434.15	431.88	0.04645	0.03546
6311-010	cold DC	637-010000	624-010000	SS-316	468.42	474.63	0.0575	0.05802
6311-011	cold DC	638-010000	624-010000	SS-316	499.2	490.84	0.0538	0.06323

Table HLt3-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	551.59	551.59	0.00083	0.017
1553-001	sg sep	740-010000	723-010000	SS-316	548.25	546.6	0.11914	0.06548
1602-001	sg sep	742-010000	745-010000	SS-316	556.06	556.05	0.00177	0.00185
1622-001	sg sep	760-010000	760-010000	SS-316	561.44	561.44	0.00273	0.00273
1642-001	sg sep	745-010000	742-010000	SS-316	554.86	554.86	0.00153	0.00142
1642-002	sg sep	750-010000	750-010000	SS-316	553.15	553.15	0.00163	0.00163
1901-001	3-lp sg sh	725-020000	0	SA-508	451.31	468.63	0.05491	0
1901-002	3-lp sg sh	725-030000	0	SA-508	408.74	431.36	0.05624	0
1901-003	3-lp sg sh	725-040000	0	SA-508	330.2	358.47	0.05247	0
1902-001	3-lp sg sh	725-010000	0	SA-508	498.55	514.5	0.06152	0
1903-001	3-lp sg sh	745-010000	0	SA-508	562.74	563.61	0.00278	0
1903-002	3-lp sg sh	723-010000	0	SA-508	543.93	547.74	0.04824	0
1903-003	3-lp sg sh	739-010000	0	SA-508	552.62	556.82	0.09793	0
1903-004	3-lp sg sh	750-010000	0	SA-508	562.38	563.44	0.00296	0
1903-005	3-lp sg sh	760-010000	0	SA-508	562.5	563.45	0.00284	0
1904-001	3-lp sg sh	770-010000	0	SA-508	562.55	563.44	0.00278	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	543.76	548.31	0.04883	0.11915
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	212.01	212.01	0.02026	0.02026
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	410.11	410.11	0.04119	0.04119
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	212.16	212.16	0.02382	0.02382
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	212.99	212.99	0.0284	0.0284
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	219.24	219.24	0.03604	0.03604
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	269.72	269.72	0.05387	0.05387
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	322.56	322.56	0.04039	0.04039
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	339.47	339.47	0.03981	0.03981
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	362.2	362.2	0.04153	0.04153
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	365.28	365.28	0.042	0.042
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	370.1	370.1	0.04219	0.04219
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	410.71	410.71	0.04643	0.04643
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	409.43	409.43	0.0466	0.0466
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	406.57	406.57	0.0464	0.0464

Table HLt3-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 3957 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	402.83	402.83	0.04571	0.04571
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	394.77	394.77	0.04474	0.04474
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	384.72	384.72	0.04377	0.04377
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	365.68	365.68	0.04165	0.04165
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	365.9	365.9	0.04208	0.04208
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	368.8	368.8	0.04202	0.04202
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	381	345.46	0.07539	0.06611
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	425.45	410.7	0.06077	0.05902
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	462.77	452.34	0.05772	0.05677
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	513.35	502	0.07278	0.07139
7301-001	3-lp DC	730-010000	725-040000	SS-316	245.39	279.29	0.06101	0.06344
7301-002	3-lp DC	730-020000	725-040000	SS-316	245.25	279.24	0.06102	0.06348
7301-003	3-lp DC	730-030000	725-040000	SS-316	245.3	279.27	0.06103	0.06345
7301-004	3-lp DC	730-040000	725-040000	SS-316	247.93	280.39	0.06102	0.06254
7301-005	3-lp DC	730-050000	725-030000	SS-316	303.1	355.41	0.07295	0.08106
7301-006	3-lp DC	730-060000	725-030000	SS-316	344.27	369.99	0.06859	0.06681
7301-007	3-lp DC	730-070000	725-030000	SS-316	355.89	374.71	0.06571	0.06108
7301-008	3-lp DC	732-010000	725-020000	SS-316	385.76	414.63	0.07318	0.07368
7301-009	3-lp DC	734-010000	725-020000	SS-316	387.82	415.43	0.07273	0.07273
7301-010	3-lp DC	736-010000	725-010000	SS-316	408.78	459.86	0.08264	0.10765
7301-011	3-lp DC	738-010000	725-010000	SS-316	520.35	504.75	0.06473	0.07798
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	410.29	410.99	0.04201	0.01527
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	409.82	410.67	0.04323	0.0142
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	408.77	409.85	0.04434	0.01585
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	406.64	408.36	0.04661	0.02615
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	413.56	426.76	0.0651	0.05862
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	408.16	424.4	0.06727	0.06242
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	401.37	421.57	0.06956	0.06657
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	399.14	442.22	0.07953	0.0869
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	399.23	442.26	0.07952	0.08686
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	418.5	486.57	0.08753	0.12099
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	531.69	528.38	0.04368	0.05231

Table HLt3-6: HL LOCA Case 7B: SG Fluid Conditions (t= 3957 seconds)

Table HLt3-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0	528.4	551.3
623-010000	366.645	3.08399E-07	545.28	551.3
624-010000	155.893	0	481.87	551.56
624-020000	43.0063	0	427.72	551.96
624-030000	59.1345	0	371.68	552.45
624-040000	43.0063	0	318.31	552.96
625-010000	180.0195	0	512.86	551.55
625-020000	73.3451	0	467.51	551.93
625-030000	100.851	0	427.77	552.41
625-040000	73.3451	0	400.74	552.89
630-010000	70.1162184	0	416.3	553.05
630-020000	70.1162184	0	427.5	552.95
630-030000	70.1162184	0	432.08	552.84
630-040000	70.1162184	0	431.66	552.74
630-050000	105.1801882	0	433.07	552.62
630-060000	140.2324368	0	431.94	552.44
630-070000	140.2324368	0	430.87	552.24
631-010000	70.1162184	0	260.07	553.12
631-020000	70.1162184	0	265.57	553.01
631-030000	70.1162184	0	274.26	552.9
631-040000	70.1162184	0	289.3	552.78
631-050000	105.1801882	0	313.55	552.65
631-060000	140.2324368	0	336.81	552.46
631-070000	140.2324368	0	381.7	552.24
632-010000	140.2324368	0	435.68	552.04
633-010000	140.2324368	0	434.67	552.04
634-010000	140.2324368	0	437.14	551.84
635-010000	140.2324368	0	437.45	551.84
636-010000	86.6724134	0	461.16	551.67
637-010000	86.6724134	0	461.18	551.67
638-010000	609.5223	0	509.78	551.49

Table HLt3-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
639-010000	635.2819708	0.66734	547.6	551.18
640-010000	125.308638	0	540.34	551.29
641-010000	117.5144724	0.73945	550.1	551.19
642-010000	320.0188	1	551.17	554.16
645-010000	1075.296	1	551.17	554.79
650-010000	830.204	1	551.16	553.22
660-010000	703.6759	1	551.15	555.25
670-010000	400	1	551.14	555.6
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	6.18861E-05	551.48	551.48
723-010000	1099.935	0	541.6	551.48
724-010000	467.679	0	523.8	551.73
724-020000	129.0189	0	474.31	552.1
724-030000	177.4035	0	440.63	552.57
724-040000	129.0189	0	410.44	553.05
725-010000	540.0185	0	490.89	551.74
725-020000	220.0353	0	439.42	552.12
725-030000	302.553	0	393.48	552.61
725-040000	220.0353	0	310.67	553.12
730-010000	210.3486552	0	211.6	553.28
730-020000	210.3486552	0	211.38	553.16
730-030000	210.3486552	0	211.4	553.05
730-040000	210.3486552	0	215.26	552.93
730-050000	315.5405646	0	255.6	552.79
730-060000	420.6973104	0	319.59	552.6
730-070000	420.6973104	0	336.92	552.38
731-010000	210.3486552	0	407.89	553.2
731-020000	210.3486552	0	407.12	553.1
731-030000	210.3486552	0	405.77	553
731-040000	210.3486552	0	402.95	552.9
731-050000	315.5405646	0	399.38	552.77

Table HLt3-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 3957 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-060000	420.6973104	0	391.52	552.58
731-070000	420.6973104	0	381.63	552.38
732-010000	420.6973104	0	359.47	552.16
733-010000	420.6973104	0	362.96	552.16
734-010000	420.6973104	0	362.46	551.95
735-010000	420.6973104	0	363.06	551.95
736-010000	260.0172402	0	367.28	551.78
737-010000	260.0172402	0	366.01	551.78
738-010000	1828.5669	0	536.73	551.59
739-010000	1905.845912	0.66862	550.24	551.35
740-010000	375.925914	0.2355	549.36	551.41
741-010000	352.5434172	1	551.36	551.35
742-010000	960.0564	1	551.35	553.59
745-010000	3225.888	1	551.35	553.26
750-010000	2490.612	1	551.33	551.32
760-010000	2111.0277	1	551.33	552.54
770-010000	1200	1	551.32	553.03

Table HLt4-1: HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

Table HLt4-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	57.4	214.51
1001-002	3-lp HL	57.4	214.12
1001-003	3-lp HL	57.4	213.87
1001-004	3-lp HL	57.4	213.22
1081-001	1-lp sg ch	63.9	610.2
1081-002	1-lp sg ch	60.4	377.24
1082-001	3-lp sg ch	59.4	324.64
1082-002	3-lp sg ch	63.2	555.45
1091-001	1-lp sg ch	60.9	400.12
1091-002	1-lp sg ch	57.6	218.43
1092-001	3-lp sg ch	57.5	212.2
1092-002	3-lp sg ch	61.0	407.08
1251-001	3-lp SG tube	57.6	219.27
1251-002	3-lp SG tube	57.6	215.8
1251-003	3-lp SG tube	57.6	216.74
1251-004	3-lp SG tube	57.7	221.94
1251-005	3-lp SG tube	58.0	239.31
1251-006	3-lp SG tube	58.6	274.35
1251-007	3-lp SG tube	59.6	329.22
1251-008	3-lp SG tube	60.1	359.28
1251-009	3-lp SG tube	60.2	362.93
1251-010	3-lp SG tube	60.6	383.3
1251-011	3-lp SG tube	60.6	383.23
1251-012	3-lp SG tube	60.2	362.2
1251-013	3-lp SG tube	60.2	361.84
1251-014	3-lp SG tube	60.3	370.7
1251-015	3-lp SG tube	60.4	376.32
1251-016	3-lp SG tube	60.5	379.49
1251-017	3-lp SG tube	60.5	379.02
1251-018	3-lp SG tube	60.5	380.27
1251-019	3-lp SG tube	60.5	379.24
1251-020	3-lp SG tube	60.4	373.19

Table HLt4-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	61.3	432.22
1401-002	3-lp CL	59.9	352.22
1401-003	3-lp CL	59.6	332.16
1401-004	3-lp CL	59.5	330.15
1401-005	3-lp CL	59.6	331.4
1401-006	3-lp CL	58.8	291.08
1701-001	3-lp CLd	57.4	215.45
1701-002	3-lp CLd	56.6	173.88
1701-003	3-lp CLd	56.4	163.02
1701-004	3-lp CLd	56.4	162.91
1905-001	3-lp sg sh	57.5	213.55
1805-001	1-lp sg sh	57.8	229.62
2001-001	1-lp HL	57.4	213.47
2001-002	1-lp HL	57.4	213.1
2001-003	1-lp HL	62.9	539.22
2001-004	1-lp HL	63.0	547.15
2251-001	sngl tube	60.9	400.68
2251-002	sngl tube	61.1	411.3
2251-003	sngl tube	61.2	418.48
2251-004	sngl tube	61.2	421.66
2251-005	sngl tube	61.4	429.02
2251-006	sngl tube	61.4	430.34
2251-007	sngl tube	61.4	429.95
2251-008	sngl tube	61.5	438.7
2251-009	sngl tube	61.6	440.49
2251-010	sngl tube	62.1	469.32
2251-011	sngl tube	62.1	469.33
2251-012	sngl tube	61.6	440.67
2251-013	sngl tube	61.5	438.16
2251-014	sngl tube	60.8	395.89
2251-015	sngl tube	60.1	358.47
2251-016	sngl tube	59.7	337.54

Table HLt4-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	59.3	312.07
2251-018	sngl tube	59.0	295.13
2251-019	sngl tube	58.8	284.34
2251-020	sngl tube	58.7	277.52
2401-001	1-lp CL suc	57.4	212.75
2401-002	1-lp CL suc	57.2	204.08
2401-003	1-lp CL suc	56.8	183.68
2401-004	1-lp CL suc	56.7	176.42
2401-005	1-lp CL suc	56.5	169.93
2401-006	1-lp CL suc	56.4	161.88
2701-001	1-lp CL dis	56.2	150.83
2701-002	1-lp CL dis	55.9	140.21
2701-003	1-lp CL dis	55.6	125.67
2701-004	1-lp CL dis	55.8	133.6
101-001	RPV head	63.4	555.46
101-002	RPV head	62.8	461.19
102-001	RPV head flange	63.1	528.89
103-001	RPV nozzle	60.5	352.3
103-002	RPV nozzle	60.4	345.45
104-001	RPV int shell	59.1	253.71
104-002	RPV int shell	59.0	250.06
104-003	RPV int shell	59.1	253.18
105-001	RPV lower shell	58.8	236.02
105-002	RPV lower shell	58.8	238.31
106-001	RPV lower hd	57.9	177.43
106-002	RPV lower hd	55.5	181.14
201-001	core barrel	56.8	185.39
201-002	core barrel	56.7	177.26
201-003	core barrel	56.6	174.44
201-004	core barrel	56.5	169.78
201-005	core barrel	56.4	164.97
201-006	core barrel	56.3	156.41

Table HLt4-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	56.0	142.88
203-001	fl dis dvce	55.8	131.03
204-001	HR	56.3	160.03
204-002	HR	56.4	160.72
204-003	HR	56.4	161.88
204-004	HR	56.4	163.04
204-005	HR	56.4	164.39
204-006	HR	56.5	165.92
204-007	HR	56.6	175.44
204-008	HR	56.7	177.28
204-009	HR	56.7	179.24
204-010	HR	56.8	181.29
204-011	HR	56.8	183.41
204-012	HR	56.8	185.58
204-013	HR	56.9	187.75
204-014	HR	57.0	195.07
204-015	HR	57.1	197.13
204-016	HR	57.1	198.92
204-017	HR	57.1	200.55
204-018	HR	57.2	202.01
204-019	HR	57.2	203.3
204-020	HR	57.3	208.6
204-021	HR	57.3	209.57
204-022	HR	57.3	210.36
204-023	HR	57.3	210.98
204-024	HR	57.3	211.44
204-025	HR	57.4	211.63
204-026	HR	57.4	211.77
204-027	HR	57.4	211.83
204-028	HR	57.4	211.73
205-001	UPR core plt	57.4	214.85
206-001	LMP	57.4	214.15
206-002	LMP	57.4	212.85

Table HLt4-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	61.9	469.92
208-001	CRGA	57.4	213.7
208-002	CRGA	57.4	212.86
208-003	CRGA	57.8	232.89
4001-001	pzr srg	63.7	494.16
4101-001	pzr srg	67.4	639.08
4101-002	pzr srg	67.5	646.3
4101-003	pzr srg	67.6	649.4
4101-004	pzr srg	67.7	652.09
4101-005	pzr srg	67.7	653.15
4101-006	pzr srg	67.7	653.39
4201-001	prz hd	67.1	628.25
4301-001	prz upr hd	67.8	654.72
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	39.6	129.83
301-002	FUEL ASS	39.8	142.27
301-003	FUEL ASS	40.0	151.55
301-004	FUEL ASS	40.1	159.64
301-005	FUEL ASS	40.2	166.93
301-006	FUEL ASS	40.3	174.07
301-007	FUEL ASS	40.5	181.17
301-008	FUEL ASS	40.6	188.03
301-009	FUEL ASS	40.7	194.58
301-010	FUEL ASS	40.8	200.75
301-011	FUEL ASS	40.9	206.45
301-012	FUEL ASS	40.9	211.64
301-013	FUEL ASS	41.0	216.25
301-014	FUEL ASS	41.1	220.26
301-015	FUEL ASS	41.1	223.61
301-016	FUEL ASS	41.2	226.06

Table HLt4-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	41.2	227.95
301-018	FUEL ASS	41.2	229.2
301-019	FUEL ASS	41.2	229.81
301-020	FUEL ASS	41.2	229.82
301-021	FUEL ASS	41.2	229.23
301-022	FUEL ASS	41.2	228.11
301-023	FUEL ASS	41.2	226.25
301-024	FUEL ASS	41.1	223.85
301-025	FUEL ASS	41.1	221.23
301-026	FUEL ASS	41.1	219.3
301-027	FUEL ASS	41.0	216.94
301-028	FUEL ASS	40.9	209.11
301-001	Fuel Cladding	28.8	129.83
301-002	Fuel Cladding	28.9	142.27
301-003	Fuel Cladding	28.9	151.55
301-004	Fuel Cladding	29.0	159.64
301-005	Fuel Cladding	29.0	166.93
301-006	Fuel Cladding	29.0	174.07
301-007	Fuel Cladding	29.1	181.17
301-008	Fuel Cladding	29.1	188.03
301-009	Fuel Cladding	29.1	194.58
301-010	Fuel Cladding	29.1	200.75
301-011	Fuel Cladding	29.2	206.45
301-012	Fuel Cladding	29.2	211.64
301-013	Fuel Cladding	29.2	216.25
301-014	Fuel Cladding	29.2	220.26
301-015	Fuel Cladding	29.3	223.61
301-016	Fuel Cladding	29.3	226.06
301-017	Fuel Cladding	29.3	227.95
301-018	Fuel Cladding	29.3	229.2
301-019	Fuel Cladding	29.3	229.81
301-020	Fuel Cladding	29.3	229.82
301-021	Fuel Cladding	29.3	229.23

Table HLt4-1 - HL LOCA Case 7B: RCS Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	Fuel Cladding	29.3	228.11
301-023	Fuel Cladding	29.3	226.25
301-024	Fuel Cladding	29.3	223.85
301-025	Fuel Cladding	29.2	221.23
301-026	Fuel Cladding	29.2	219.3
301-027	Fuel Cladding	29.2	216.94
301-028	Fuel Cladding	29.2	209.11

Table HLt4-2: HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

Table HLt4-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	213.45	215.04	0.03166	0
1001-002	3-lp HL	105-010000	0	SS-316	213.38	214.53	0.04237	0
1001-003	3-lp HL	110-010000	0	SS-316	213.24	214.23	0.01863	0
1001-004	3-lp HL	115-010000	0	SS-316	213.13	213.3	0.00956	0
1081-001	1-lp sg ch	220-010000	0	SS-316	607.24	611.83	0.00020	0
1081-002	1-lp sg ch	230-010000	0	SS-316	375.04	378.64	0.00018	0
1082-001	3-lp sg ch	120-010000	0	SS-316	283.32	356.8	0.00016	0
1082-002	3-lp sg ch	130-010000	0	SS-316	552.26	557	0.00032	0
1091-001	1-lp sg ch	221-010000	0	alloy690	400.12	400.12	0.00062	0
1091-002	1-lp sg ch	229-010000	0	alloy690	218.45	218.43	0.00033	0
1092-001	3-lp sg ch	121-010000	0	alloy690	212.2	212.2	0.00064	0
1092-002	3-lp sg ch	129-010000	0	alloy690	407.05	407.08	0.00114	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	219.27	219.27	0.00071	0.02443
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	215.8	215.8	0.00078	0.02089
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	216.73	216.74	0.00085	0.02245
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	221.93	221.94	0.00090	0.02637
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	239.3	239.31	0.00094	0.02971
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	274.34	274.35	0.00099	0.03114
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	329.21	329.22	0.00102	0.02522
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	359.27	359.28	0.00106	0.02477
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	362.93	362.93	0.00110	0.02720
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	383.29	383.31	0.00112	0.03802
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	383.22	383.24	0.00114	0.03803
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	362.2	362.2	0.00115	0.02637
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	361.83	361.84	0.00115	0.02634
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	370.7	370.7	0.00115	0.02254
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	376.32	376.32	0.00114	0.02069
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	379.49	379.49	0.00114	0.01889
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	379.02	379.02	0.00114	0.01890
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	380.27	380.27	0.00114	0.02087
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	379.24	379.24	0.00114	0.02465

Table HLt4-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	373.19	373.19	0.00114	0.02899
1401-001	3-lp CL	135-010000	0	SS-316	316.7	471.51	0.02761	0
1401-002	3-lp CL	140-010000	0	SS-316	225.12	417.12	0.83865	0
1401-003	3-lp CL	145-010000	0	SS-316	227.99	386.65	0.76322	0
1401-004	3-lp CL	150-010000	0	SS-316	229.63	382.72	0.93703	0
1401-005	3-lp CL	155-010000	0	SS-316	226.34	386.02	0.98097	0
1401-006	3-lp CL	160-010000	0	SS-316	218.76	329.19	0.84709	0
1701-001	3-lp CLd	165-010000	0	SS-316	179.79	234.53	0.24172	0
1701-002	3-lp CLd	170-010000	0	SS-316	156.03	183.42	0.21978	0
1701-003	3-lp CLd	175-010000	0	SS-316	141.65	174.21	0.21936	0
1701-004	3-lp CLd	180-010000	0	SS-316	141.61	174.02	0.21699	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	213.29	214.1	0.00009	0.02283
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	230.68	229.25	0.00021	0.00015
2001-001	1-lp HL	200-010000	0	SS-316	212.61	213.74	0.16132	0
2001-002	1-lp HL	205-010000	0	SS-316	212.5	213.3	0.21296	0
2001-003	1-lp HL	210-010000	0	SS-316	537.68	540.06	0.00092	0
2001-004	1-lp HL	215-010000	0	SS-316	545.94	547.82	0.00085	0
2251-001	sngl tube	225-010000	630-010000	alloy690	400.68	400.68	0.00060	0.02333
2251-002	sngl tube	225-020000	630-020000	alloy690	411.3	411.3	0.00057	0.02421
2251-003	sngl tube	225-030000	630-030000	alloy690	418.48	418.48	0.00054	0.02423
2251-004	sngl tube	225-040000	630-040000	alloy690	421.66	421.66	0.00052	0.02365
2251-005	sngl tube	225-050000	630-050000	alloy690	429.02	429.02	0.00048	0.02034
2251-006	sngl tube	225-060000	630-060000	alloy690	430.34	430.34	0.00045	0.01819
2251-007	sngl tube	225-070000	630-070000	alloy690	429.95	429.95	0.00045	0.01820
2251-008	sngl tube	225-080000	632-010000	alloy690	438.7	438.7	0.00045	0.01806
2251-009	sngl tube	225-090000	634-010000	alloy690	440.49	440.49	0.00045	0.01803
2251-010	sngl tube	225-100000	636-010000	alloy690	469.32	469.32	0.00047	0.02339
2251-011	sngl tube	225-110000	637-010000	alloy690	469.33	469.33	0.00047	0.02346
2251-012	sngl tube	225-120000	635-010000	alloy690	440.67	440.67	0.00046	0.01803
2251-013	sngl tube	225-130000	633-010000	alloy690	438.16	438.16	0.00045	0.01882
2251-014	sngl tube	225-140000	631-070000	alloy690	395.89	395.89	0.00043	0.02296

Table HLt4-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	358.47	358.47	0.00040	0.02471
2251-016	sngl tube	225-160000	631-050000	alloy690	337.54	337.54	0.00039	0.02515
2251-017	sngl tube	225-170000	631-040000	alloy690	312.07	312.07	0.00037	0.02414
2251-018	sngl tube	225-180000	631-030000	alloy690	295.13	295.13	0.00036	0.02344
2251-019	sngl tube	225-190000	631-020000	alloy690	284.34	284.34	0.00035	0.02291
2251-020	sngl tube	225-200000	631-010000	alloy690	277.51	277.52	0.00035	0.02295
2401-001	1-lp CL suc	235-010000	0	SS-316	212.21	213.06	0.57251	0
2401-002	1-lp CL suc	240-010000	0	SS-316	190.4	209.8	0.12030	0
2401-003	1-lp CL suc	245-010000	0	SS-316	178.25	186.22	0.11811	0
2401-004	1-lp CL suc	250-010000	0	SS-316	172.3	178.31	0.11617	0
2401-005	1-lp CL suc	255-010000	0	SS-316	166.15	171.66	0.11566	0
2401-006	1-lp CL suc	260-010000	0	SS-316	158.82	163.31	0.12646	0
2701-001	1-lp CL dis	265-010000	0	SS-316	147.73	152.33	0.05567	0
2701-002	1-lp CL dis	270-010000	0	SS-316	137.02	141.78	0.05348	0
2701-003	1-lp CL dis	275-010000	0	SS-316	123.07	126.96	0.02004	0
2701-004	1-lp CL dis	280-010000	0	SS-316	125.21	137.94	0.02006	0
101-001	RPV head	94-010000	0	alloy600	550.85	558.02	0.00022	0
101-002	RPV head	90-010000	0	SA-508	446.01	469.69	0.00183	0
102-001	RPV head flange	90-010000	0	alloy600	474.95	557.89	0.00135	0
103-001	RPV nozzle	10-010000	0	alloy600	181.83	435.45	0.04257	0
103-002	RPV nozzle	12-010000	0	alloy600	173.92	426.42	0.13721	0
104-001	RPV int shell	12-010000	0	alloy600	164.36	296.45	0.13721	0
104-002	RPV int shell	14-010000	0	alloy600	164.65	290.38	0.09923	0
104-003	RPV int shell	16-010000	0	alloy600	166.29	293.89	0.09959	0
105-001	RPV lower shell	16-010000	0	alloy600	163.47	269.68	0.09959	0
105-002	RPV lower shell	18-010000	0	alloy600	164.56	272.28	0.08870	0
106-001	RPV lower hd	18-010000	0	alloy600	150.91	190.2	0.08870	0
106-002	RPV lower hd	20-010000	0	SA-508	149.59	196.57	0.04435	0
201-001	core barrel	10-010000	86-010000	SS-316	160.11	211.96	0.03473	0.42040
201-002	core barrel	12-010000	84-010000	SS-316	145.07	201.24	0.13721	0.04541
201-003	core barrel	14-010000	80-040000	SS-316	146.88	191.65	0.09923	0.16743

Table HLt4-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	145.86	181.38	0.09923	0.16096
201-005	core barrel	16-010000	80-020000	SS-316	145.47	170.52	0.09959	0.15405
201-006	core barrel	16-010000	80-010000	SS-316	143.05	155.32	0.09959	0.14518
202-001	low sup plate	22-010000	0	SS-316	139.93	144.16	0.07412	0
203-001	fl dis dvce	22-010000	0	SS-316	130.88	131.11	0.07412	0
204-001	HR	24-010000	80-010000	SS-316	140.76	157.2	0.16471	0.14518
204-002	HR	26-010000	80-010000	SS-316	141.92	157.35	0.16550	0.14518
204-003	HR	28-010000	80-010000	SS-316	143.89	157.61	0.16685	0.14518
204-004	HR	30-010000	80-010000	SS-316	145.88	157.87	0.16827	0.14518
204-005	HR	32-010000	80-010000	SS-316	148.29	158.16	0.17002	0.14518
204-006	HR	34-010000	80-010000	SS-316	151.05	158.48	0.17203	0.14518
204-007	HR	36-010000	80-020000	SS-316	155.47	174.12	0.17428	0.15405
204-008	HR	38-010000	80-020000	SS-316	158.86	174.49	0.17672	0.15405
204-009	HR	40-010000	80-020000	SS-316	162.49	174.88	0.17932	0.15405
204-010	HR	42-010000	80-020000	SS-316	166.32	175.28	0.18205	0.15405
204-011	HR	44-010000	80-020000	SS-316	170.29	175.69	0.18485	0.15405
204-012	HR	46-010000	80-020000	SS-316	174.36	176.1	0.18769	0.15405
204-013	HR	48-010000	80-020000	SS-316	178.46	176.51	0.19054	0.15405
204-014	HR	50-010000	80-030000	SS-316	183.25	188.37	0.19334	0.16096
204-015	HR	52-010000	80-030000	SS-316	187.23	188.74	0.19605	0.16096
204-016	HR	54-010000	80-030000	SS-316	190.78	189.05	0.19848	0.16096
204-017	HR	56-010000	80-030000	SS-316	194.14	189.31	0.20079	0.16096
204-018	HR	58-010000	80-030000	SS-316	197.27	189.52	0.20295	0.16096
204-019	HR	60-010000	80-030000	SS-316	200.15	189.7	0.20494	0.16096
204-020	HR	62-010000	80-040000	SS-316	203.23	200.54	0.20674	0.16743
204-021	HR	64-010000	80-040000	SS-316	205.54	200.66	0.20826	0.16743
204-022	HR	66-010000	80-040000	SS-316	207.52	200.74	0.20946	0.16743
204-023	HR	68-010000	80-040000	SS-316	209.15	200.79	0.21047	0.16743
204-024	HR	70-010000	80-040000	SS-316	210.42	200.81	0.21125	0.16743
204-025	HR	72-010000	80-040000	SS-316	211.05	200.82	0.21166	0.16743
204-026	HR	74-010000	80-040000	SS-316	211.52	200.81	0.21197	0.16743
204-027	HR	76-010000	80-040000	SS-316	211.79	200.8	0.21216	0.16743

Table HLt4-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	211.82	200.75	0.21215	0.16743
205-001	UPR core plt	84-010000	0	SS-316	214.33	215.33	0.04541	0
206-001	LMP	84-010000	0	SS-316	213.77	214.34	0.04541	0
206-002	LMP	86-010000	0	SS-316	213.13	212.76	0.46552	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	456.01	474.19	0.00265	0.00022
208-001	CRGA	84-010000	0	SS-316	213.42	213.85	0.04541	0
208-002	CRGA	86-010000	0	SS-316	213.21	212.74	0.46924	0
208-003	CRGA	92-010000	0	SS-316	232.14	233.15	0.00012	0
4001-001	pzr srg	400-010000	0	SA-508	493.73	494.35	0.00030	0
4101-001	pzr srg	410-010000	0	SA-508	638.21	639.63	0.00013	0
4101-002	pzr srg	410-020000	0	SA-508	645.77	646.65	0.00011	0
4101-003	pzr srg	410-030000	0	SA-508	649.08	649.61	0.00010	0
4101-004	pzr srg	410-040000	0	SA-508	651.89	652.21	0.00009	0
4101-005	pzr srg	410-050000	0	SA-508	653.03	653.22	0.00008	0
4101-006	pzr srg	410-060000	0	SA-508	653.32	653.43	0.00007	0
4201-001	prz hd	408-010000	0	SA-508	626.48	629.42	0.00016	0
4301-001	prz upr hd	412-010000	0	SA-508	654.69	654.73	0.00005	0
						Surface Temp	Surface Temp	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				
301-012	FUEL ASS	0	46-010000	Fuel				

Table HLt4-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		129.86		0.16471
301-002	Fuel Cladding	0	26-010000	cladding		134.42		0.1655
301-003	Fuel Cladding	0	28-010000	cladding		139.42		0.16685
301-004	Fuel Cladding	0	30-010000	cladding		143.96		0.16827
301-005	Fuel Cladding	0	32-010000	cladding		148.44		0.17002
301-006	Fuel Cladding	0	34-010000	cladding		153.13		0.17203
301-007	Fuel Cladding	0	36-010000	cladding		157.96		0.17428
301-008	Fuel Cladding	0	38-010000	cladding		162.86		0.17672
301-009	Fuel Cladding	0	40-010000	cladding		167.79		0.17932
301-010	Fuel Cladding	0	42-010000	cladding		172.68		0.18205
301-011	Fuel Cladding	0	44-010000	cladding		177.5		0.18485
301-012	Fuel Cladding	0	46-010000	cladding		182.18		0.18769
301-013	Fuel Cladding	0	48-010000	cladding		186.67		0.19054
301-014	Fuel Cladding	0	50-010000	cladding		190.93		0.19334
301-015	Fuel Cladding	0	52-010000	cladding		194.89		0.19605
301-016	Fuel Cladding	0	54-010000	cladding		198.25		0.19848

Table HLt4-2 – HL LOCA Case 7B: RCS Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-017	Fuel Cladding	0	56-010000	cladding		201.33		0.20079
301-018	Fuel Cladding	0	58-010000	cladding		204.05		0.20295
301-019	Fuel Cladding	0	60-010000	cladding		206.4		0.20494
301-020	Fuel Cladding	0	62-010000	cladding		208.35		0.20674
301-021	Fuel Cladding	0	64-010000	cladding		209.89		0.20826
301-022	Fuel Cladding	0	66-010000	cladding		210.99		0.20946
301-023	Fuel Cladding	0	68-010000	cladding		211.65		0.21047
301-024	Fuel Cladding	0	70-010000	cladding		211.83		0.21125
301-025	Fuel Cladding	0	72-010000	cladding		211.5		0.21166
301-026	Fuel Cladding	0	74-010000	cladding		211.2		0.21197
301-027	Fuel Cladding	0	76-010000	cladding		210.61		0.21216
301-028	Fuel Cladding	0	78-010000	cladding		208.98		0.21215

Table HLt4-3: HL LOCA Case 7B: RCS Fluid Conditions (t= 5470 seconds)

Table HLt4-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.092	212.3	215.8
105-010000	112.108	0.112	212.7	214.8
110-010000	90.692	0.175	212.6	213.4
115-010000	99.530	0.672	212.3	220.6
117-010000	34.487	1.000	210.4	222.8
120-010000	605.616	1.000	210.4	222.7
121-010000	90.006	1.000	210.4	211.6
125-010000	104.546	1.000	210.4	214.5
125-020000	104.546	1.000	210.4	212.8
125-030000	104.546	1.000	210.4	213.8
125-040000	104.546	1.000	210.4	219.4
125-050000	156.828	1.000	210.4	236.0
125-060000	209.092	1.000	210.5	269.2
125-070000	209.092	1.000	210.5	318.9
125-080000	209.092	1.000	210.5	350.7
125-090000	209.092	1.000	210.5	359.4
125-100000	182.764	1.000	210.6	375.9
125-110000	182.764	1.000	210.6	378.5
125-120000	209.092	1.000	210.6	363.0
125-130000	209.092	1.000	210.6	360.0
125-140000	209.092	1.000	210.6	366.5
125-150000	209.092	1.000	210.6	372.4
125-160000	156.828	1.000	210.6	375.8
125-170000	104.546	1.000	210.6	376.4
125-180000	104.546	1.000	210.6	377.2
125-190000	104.546	1.000	210.6	376.8
125-200000	104.546	1.000	210.6	373.9
129-010000	90.006	1.000	210.6	384.5
130-010000	605.616	0.996	210.6	285.3
132-010000	34.487	0.591	209.3	250.0
135-010000	51.857	0.356	206.1	206.0
140-010000	61.586	0.013	204.9	205.5

Table HLt4-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	0.0002	201.6	205.0
150-010000	102.591	0.003	194.6	198.9
155-010000	108.946	0.155	187.0	187.7
160-010000	413.100	0.105	177.4	178.0
165-010000	105.120	0.000	164.3	184.7
170-010000	105.120	0.000	148.2	191.0
175-010000	135.835	0.000	131.0	197.1
180-010000	116.691	0.000	128.2	203.1
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.637	211.4	222.4
205-010000	37.369	0.693	211.5	215.6
210-010000	30.231	1.000	212.1	287.9
215-010000	33.177	1.000	212.1	366.9
217-010000	11.496	1.000	212.1	402.1
220-010000	201.872	1.000	212.1	432
221-010000	30.002	1.000	212.1	412.5
225-010000	34.849	1.000	212.1	405.5
225-020000	34.849	1.000	212.1	410.2
225-030000	34.849	1.000	212.2	416.6
225-040000	34.849	1.000	212.2	421.3
225-050000	52.276	1.000	212.2	427.9
225-060000	69.697	1.000	212.2	430.4
225-070000	69.697	1.000	212.2	431.1
225-080000	69.697	1.000	212.2	438.2
225-090000	69.697	1.000	212.2	442.4
225-100000	60.921	1.000	212.2	465.1
225-110000	60.921	1.000	212.2	467.8
225-120000	69.697	1.000	212.2	445.4
225-130000	69.697	1.000	212.3	437.6
225-140000	69.697	1.000	212.3	400.9
225-150000	69.697	1.000	212.3	364.3

Table HLt4-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	1.000	212.3	341.5
225-170000	34.849	1.000	212.3	318.9
225-180000	34.849	1.000	212.3	300.8
225-190000	34.849	1.000	212.3	287.9
225-200000	34.849	1.000	212.3	276.8
229-010000	30.002	1.000	212.3	243
230-010000	201.872	1.000	212.3	283.3
232-010000	11.496	1.000	212.3	269.9
235-010000	17.286	0.712	181.9	227
240-010000	20.529	0.000	178.5	213.5
245-010000	38.892	0.000	172.4	213.8
250-010000	34.197	0.000	167	209.8
255-010000	36.315	0.000	161	197.9
260-010000	137.700	0.036	154.9	154.9
265-010000	35.040	0.000	143.8	178.1
270-010000	35.040	0.000	132.9	186.9
275-010000	45.278	0.000	122.2	195.6
280-010000	38.897	0.000	122.1	203.5
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.000	127.3	199.8
12-010000	184.160	0.000	127.0	210.2
14-010000	366.488	0.000	127.6	222.0
16-010000	414.895	0.000	128.6	233.8
18-010000	120.792	0.000	128.8	240.6
20-010000	212.629	0.000	129.0	243.1
22-010000	315.096	0.000	129.4	240.1
24-010000	45.438	0.000	129.8	238.0
26-010000	48.504	0.000	131.0	237.3
28-010000	48.504	0.000	133.1	236.6
30-010000	35.789	0.000	135.3	236.0
32-010000	35.789	0.000	138.0	235.5

Table HLt4-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
34-010000	35.789	0.000	141.1	235.0
36-010000	35.789	0.000	144.7	234.5
38-010000	35.789	0.000	148.5	233.9
40-010000	35.789	0.000	152.7	233.4
42-010000	35.789	0.000	157.1	232.9
44-010000	35.789	0.000	161.6	232.3
46-010000	35.789	0.000	166.2	231.8
48-010000	35.789	0.000	170.9	231.2
50-010000	35.789	0.000	175.6	230.7
52-010000	35.789	0.000	180.1	230.1
54-010000	33.109	0.000	184.2	229.6
56-010000	33.109	0.000	188.1	229.1
58-010000	33.109	0.000	191.8	228.6
60-010000	33.109	0.000	195.2	228.0
62-010000	33.109	0.000	198.3	227.5
64-010000	33.109	0.000	201.1	227.0
66-010000	33.109	0.000	203.5	226.4
68-010000	33.109	0.000	205.5	225.9
70-010000	33.109	0.000	207.0	225.3
72-010000	21.064	0.000	207.8	224.9
74-010000	21.064	0.000	208.5	224.5
76-010000	21.051	0.000	208.9	224.2
78-010000	86.638	0.000	208.9	223.3
80-010000	5.964	0.000	149.0	235.5
80-020000	4.483	0.000	166.5	232.1
80-030000	4.951	0.000	180.5	228.8
80-040000	5.894	0.000	194.0	224.8
82-010000	28.768	0.000	143.0	236.3
82-020000	21.625	0.000	159.1	232.7
82-030000	23.882	0.000	178.2	229.2
82-040000	28.430	0.000	196.5	225.0
84-010000	573.893	0.000	211.1	219.2
86-010000	276.840	0.828	211.6	219.4

Table HLt4-3 – HL LOCA Case 7B: RCS Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
88-010000	202.853	0.472	207.7	206.6
88-020000	83.659	0.307	210.9	210.6
88-030000	182.966	0.000	213.6	216.0
90-010000	120.233	0.972	187.4	197.1
92-010000	505.835	0.999	194.1	207.5
94-010000	267.973	0.998	194.2	194.1
400-010000	82.382	0.993	212.9	410.6
408-010000	161.115	1.000	213.1	522.0
410-010000	395.598	1.000	213.1	580.6
410-020000	395.598	1.000	213.0	607.2
410-030000	395.598	1.000	213.0	622.6
410-040000	395.598	1.000	213.0	632.9
410-050000	395.598	1.000	213.0	639.9
410-060000	395.598	1.000	213.0	644.8
412-010000	161.115	1.000	213.0	650.9

Table HLt4-4: HL LOCA Case 7B: SG Metal Stored Energy (t= 5470 seconds)

Table HLt4-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.1	550.13
1552-001	sg sep	62.9	540.22
1601-001	sg sep	63.1	554.29
1621-001	sg sep	63.2	557.18
1641-001	sg sep	63.1	554.10
1641-002	sg sep	63.1	552.81
1801-001	1-lp sg sh	62.9	465.86
1801-002	1-lp sg sh	61.9	426.05
1801-003	1-lp sg sh	61.2	397.12
1802-001	1-lp sg sh	64.2	513.23
1803-001	1-lp sg sh	65.3	557.55
1803-002	1-lp sg sh	65.1	550.94
1803-003	1-lp sg sh	65.1	551.05
1803-004	1-lp sg sh	65.3	556.80
1803-005	1-lp sg sh	65.3	557.42
1804-001	1-lp sg sh	65.3	557.50
1806-001	1-lp sg sh	64.4	524.00
1807-001	1-lp sg sh	60.8	401.10
1807-002	1-lp sg sh	58.6	276.81
1808-001	1-lp sg sh	60.9	412.11
1808-002	1-lp sg sh	61.1	419.28
1808-003	1-lp sg sh	61.1	422.35
1808-004	1-lp sg sh	61.2	429.39
1808-005	1-lp sg sh	61.2	430.54
1808-006	1-lp sg sh	61.2	430.10
1808-007	1-lp sg sh	61.4	438.50
1808-008	1-lp sg sh	61.4	440.28
1808-009	1-lp sg sh	61.8	468.76
1808-010	1-lp sg sh	58.7	283.18
1808-011	1-lp sg sh	58.9	293.92
1808-012	1-lp sg sh	59.2	310.83
1808-013	1-lp sg sh	59.6	336.28

Table HLt4-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	60.0	357.39
1808-015	1-lp sg sh	60.7	395.20
1808-016	1-lp sg sh	61.4	437.93
1808-017	1-lp sg sh	61.4	440.47
1808-018	1-lp sg sh	61.8	468.77
6241-001	DC sleeve	60.0	359.20
6241-002	DC sleeve	60.7	400.58
6241-003	DC sleeve	61.5	446.43
6241-004	DC sleeve	62.3	495.20
6301-001	hot DC	60.7	395.72
6301-002	hot DC	60.8	401.26
6301-003	hot DC	60.8	404.95
6301-004	hot DC	60.8	406.56
6301-005	hot DC	61.2	425.35
6301-006	hot DC	61.2	426.03
6301-007	hot DC	61.2	425.82
6301-008	hot DC	61.5	449.44
6301-009	hot DC	61.6	450.33
6301-010	hot DC	62.2	489.01
6301-011	hot DC	62.5	507.95
6311-001	cold DC	59.0	301.39
6311-002	cold DC	59.1	304.71
6311-003	cold DC	59.2	310.03
6311-004	cold DC	59.3	318.63
6311-005	cold DC	60.0	357.85
6311-006	cold DC	60.2	368.26
6311-007	cold DC	60.5	388.41
6311-008	cold DC	61.3	435.06
6311-009	cold DC	61.3	436.39
6311-010	cold DC	62.0	475.92
6311-011	cold DC	62.3	494.92
1543-001	sg sep	63.0	546.05

Table HLt4-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	62.9	538.31
1602-001	sg sep	63.1	552.28
1622-001	sg sep	63.2	560.68
1642-001	sg sep	63.1	551.40
1642-002	sg sep	63.1	548.24
1901-001	3-lp sg sh	61.7	418.36
1901-002	3-lp sg sh	60.3	364.48
1901-003	3-lp sg sh	58.5	295.20
1902-001	3-lp sg sh	63.4	483.01
1903-001	3-lp sg sh	65.4	561.85
1903-002	3-lp sg sh	64.8	539.16
1903-003	3-lp sg sh	65.1	549.56
1903-004	3-lp sg sh	65.4	561.10
1903-005	3-lp sg sh	65.4	561.67
1904-001	3-lp sg sh	65.4	561.82
1906-001	3-lp sg sh	64.7	534.93
1907-001	3-lp sg sh	57.5	218.14
1907-002	3-lp sg sh	60.3	374.10
1908-001	3-lp sg sh	57.4	214.56
1908-002	3-lp sg sh	57.4	215.22
1908-003	3-lp sg sh	57.5	219.46
1908-004	3-lp sg sh	57.8	235.53
1908-005	3-lp sg sh	58.5	270.94
1908-006	3-lp sg sh	59.5	327.98
1908-007	3-lp sg sh	60.0	357.86
1908-008	3-lp sg sh	60.1	361.53
1908-009	3-lp sg sh	60.4	380.10
1908-010	3-lp sg sh	60.4	380.09
1908-011	3-lp sg sh	60.4	380.67
1908-012	3-lp sg sh	60.4	379.11
1908-013	3-lp sg sh	60.4	379.21
1908-014	3-lp sg sh	60.3	375.79
1908-015	3-lp sg sh	60.2	369.96

Table HLt4-4 – HL LOCA Case 7B: SG Metal Stored Energy (t= 5470 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	60.1	360.47
1908-017	3-lp sg sh	60.1	360.81
1908-018	3-lp sg sh	60.4	379.98
7241-001	3-lp DC sleeve	59.4	319.99
7241-002	3-lp DC sleeve	60.2	368.30
7241-003	3-lp DC sleeve	61.1	419.33
7241-004	3-lp DC sleeve	62.1	485.62
7301-001	3-lp DC	58.0	247.59
7301-002	3-lp DC	58.0	246.00
7301-003	3-lp DC	58.0	246.42
7301-004	3-lp DC	58.1	248.82
7301-005	3-lp DC	58.9	291.84
7301-006	3-lp DC	59.1	307.91
7301-007	3-lp DC	59.6	335.09
7301-008	3-lp DC	60.4	379.19
7301-009	3-lp DC	60.4	380.98
7301-010	3-lp DC	61.2	427.38
7301-011	3-lp DC	62.2	491.79
7311-001	3-lp DC cold	60.2	366.93
7311-002	3-lp DC cold	60.2	370.02
7311-003	3-lp DC cold	60.2	370.51
7311-004	3-lp DC cold	60.2	369.84
7311-005	3-lp DC cold	60.5	385.75
7311-006	3-lp DC cold	60.5	384.09
7311-007	3-lp DC cold	60.4	381.20
7311-008	3-lp DC cold	60.7	399.94
7311-009	3-lp DC cold	60.7	400.11
7311-010	3-lp DC cold	61.5	448.51
7311-011	3-lp DC cold	62.5	511.76

Table HLt4-5: HL LOCA Case 7B: SG Wall Film Conditions (t= 5470 seconds)

Table HLt4-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	550.16	550.10	1.92960	1.12050
1552-001	sg sep	640-010000	623-010000	SS-316	540.02	540.41	0.03529	0.04314
1601-001	sg sep	642-010000	645-010000	SS-316	554.29	554.29	0.00109	0.00082
1621-001	sg sep	660-010000	660-010000	SS-316	557.03	557.03	0.00169	0.00169
1641-001	sg sep	645-010000	642-010000	SS-316	554.10	554.10	0.00052	0.00097
1641-002	sg sep	650-010000	650-010000	SS-316	552.81	552.81	0.00089	0.00089
1801-001	1-lp sg sh	625-020000	0	SA-508	464.09	466.78	0.03268	0
1801-002	1-lp sg sh	625-030000	0	SA-508	424.05	427.10	0.03220	0
1801-003	1-lp sg sh	625-040000	0	SA-508	394.12	398.68	0.03493	0
1802-001	1-lp sg sh	625-010000	0	SA-508	510.14	514.84	0.04351	0
1803-001	1-lp sg sh	645-010000	0	SA-508	557.40	557.62	0.00192	0
1803-002	1-lp sg sh	623-010000	0	SA-508	550.53	551.15	0.06218	0
1803-003	1-lp sg sh	639-010000	0	SA-508	550.65	551.26	0.03737	0
1803-004	1-lp sg sh	650-010000	0	SA-508	556.60	556.89	0.00207	0
1803-005	1-lp sg sh	660-010000	0	SA-508	557.32	557.47	0.00175	0
1804-001	1-lp sg sh	670-010000	0	SA-508	557.41	557.55	0.00170	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	519.86	528.13	0.05481	0.06318
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	401.06	401.06	0.02743	0.02743
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	276.87	276.87	0.02683	0.02683
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	412.00	412.00	0.03164	0.03164
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	419.17	419.17	0.03164	0.03164
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	422.25	422.25	0.03067	0.03067
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	429.35	429.35	0.02646	0.02646
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	430.52	430.52	0.02290	0.02290
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	430.08	430.08	0.02136	0.02136
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	438.53	438.53	0.02294	0.02294
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	440.30	440.30	0.02326	0.02326
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	468.84	468.84	0.03015	0.03015
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	283.35	283.35	0.02985	0.02985
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	294.10	294.10	0.03063	0.03063
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	311.02	311.02	0.03156	0.03156

Table HLt4-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	336.47	336.47	0.03277	0.03277
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	357.55	357.55	0.03236	0.03236
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	395.29	395.29	0.03002	0.03002
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	437.96	437.96	0.02376	0.02376
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	440.49	440.49	0.02298	0.02298
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	468.84	468.84	0.03015	0.03015
6241-001	DC sleeve	624-040000	625-040000	SS-316	349.15	369.16	0.05741	0.06249
6241-002	DC sleeve	624-030000	625-030000	SS-316	394.44	406.69	0.05417	0.05683
6241-003	DC sleeve	624-020000	625-020000	SS-316	442.16	450.68	0.05241	0.05411
6241-004	DC sleeve	624-010000	625-010000	SS-316	491.30	499.06	0.06212	0.06487
6301-001	hot DC	630-010000	625-040000	SS-316	397.04	394.38	0.04619	0.03571
6301-002	hot DC	630-020000	625-040000	SS-316	404.25	398.24	0.05499	0.04489
6301-003	hot DC	630-030000	625-040000	SS-316	409.18	400.69	0.05927	0.04950
6301-004	hot DC	630-040000	625-040000	SS-316	411.37	401.74	0.06094	0.05129
6301-005	hot DC	630-050000	625-030000	SS-316	426.28	424.42	0.04396	0.03357
6301-006	hot DC	630-060000	625-030000	SS-316	427.15	424.91	0.04577	0.03528
6301-007	hot DC	630-070000	625-030000	SS-316	426.88	424.76	0.04531	0.03476
6301-008	hot DC	632-010000	625-020000	SS-316	446.23	452.62	0.05709	0.04983
6301-009	hot DC	634-010000	625-020000	SS-316	447.43	453.21	0.05602	0.04843
6301-010	hot DC	636-010000	625-010000	SS-316	482.50	495.48	0.06716	0.07513
6301-011	hot DC	638-010000	625-010000	SS-316	508.05	507.84	0.02043	0.02417
6311-001	cold DC	631-010000	624-040000	SS-316	293.73	309.05	0.05786	0.05271
6311-002	cold DC	631-020000	624-040000	SS-316	298.29	311.13	0.05636	0.05017
6311-003	cold DC	631-030000	624-040000	SS-316	305.52	314.56	0.05324	0.04550
6311-004	cold DC	631-040000	624-040000	SS-316	316.87	320.43	0.04485	0.03521
6311-005	cold DC	631-050000	624-030000	SS-316	351.27	364.42	0.06056	0.05498
6311-006	cold DC	631-060000	624-030000	SS-316	365.40	371.14	0.05223	0.04361
6311-007	cold DC	631-070000	624-030000	SS-316	390.52	386.35	0.05104	0.03939
6311-008	cold DC	633-010000	624-020000	SS-316	435.81	434.32	0.04277	0.03149
6311-009	cold DC	635-010000	624-020000	SS-316	437.49	435.31	0.04616	0.03522
6311-010	cold DC	637-010000	624-010000	SS-316	474.09	477.76	0.05197	0.05014
6311-011	cold DC	638-010000	624-010000	SS-316	498.74	491.13	0.05254	0.06160

Table HLt4-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	546.06	546.05	0.00113	0.01213
1553-001	sg sep	740-010000	723-010000	SS-316	538.77	537.72	0.03952	0.06314
1602-001	sg sep	742-010000	745-010000	SS-316	552.27	552.28	0.00160	0.00144
1622-001	sg sep	760-010000	760-010000	SS-316	559.84	559.84	0.00248	0.00248
1642-001	sg sep	745-010000	742-010000	SS-316	551.40	551.39	0.00111	0.00136
1642-002	sg sep	750-010000	750-010000	SS-316	548.24	548.24	0.00131	0.00131
1901-001	3-lp sg sh	725-020000	0	SA-508	409.87	422.83	0.04752	0
1901-002	3-lp sg sh	725-030000	0	SA-508	354.12	369.97	0.04637	0
1901-003	3-lp sg sh	725-040000	0	SA-508	287.83	299.15	0.03747	0
1902-001	3-lp sg sh	725-010000	0	SA-508	473.49	488.01	0.05688	0
1903-001	3-lp sg sh	745-010000	0	SA-508	561.21	562.17	0.00267	0
1903-002	3-lp sg sh	723-010000	0	SA-508	535.82	540.87	0.05147	0
1903-003	3-lp sg sh	739-010000	0	SA-508	547.23	550.73	0.06919	0
1903-004	3-lp sg sh	750-010000	0	SA-508	560.22	561.55	0.00294	0
1903-005	3-lp sg sh	760-010000	0	SA-508	561.08	561.97	0.00259	0
1904-001	3-lp sg sh	770-010000	0	SA-508	561.29	562.09	0.00251	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	531.20	537.72	0.05590	0.04543
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	218.25	218.25	0.02716	0.02716
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	374.00	374.00	0.03249	0.03249
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	214.73	214.73	0.02666	0.02666
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	215.44	215.44	0.02813	0.02813
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	219.85	219.85	0.03214	0.03214
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	236.20	236.20	0.03682	0.03682
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	271.55	271.55	0.03830	0.03830
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	328.17	328.17	0.03238	0.03238
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	358.09	358.09	0.03437	0.03437
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	361.75	361.75	0.03472	0.03472
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	380.71	380.71	0.04371	0.04371
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	379.97	379.97	0.03127	0.03127
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	380.62	380.62	0.02601	0.02601
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	379.10	379.10	0.01863	0.01863

Table HLt4-5 – HL LOCA Case 7B: SG Wall Film Conditions (t= 5470 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	379.24	379.24	0.02361	0.02361
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	375.86	375.86	0.02764	0.02764
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	370.06	370.06	0.02987	0.02987
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	360.68	360.68	0.03438	0.03438
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	361.03	361.03	0.03451	0.03451
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	380.60	380.60	0.04384	0.04384
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	333.19	306.73	0.06470	0.05676
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	376.00	360.53	0.05842	0.05502
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	424.75	413.84	0.05629	0.05451
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	492.15	479.05	0.07405	0.07183
7301-001	3-lp DC	730-010000	725-040000	SS-316	238.74	256.46	0.05400	0.04973
7301-002	3-lp DC	730-020000	725-040000	SS-316	236.48	255.48	0.05445	0.05064
7301-003	3-lp DC	730-030000	725-040000	SS-316	237.08	255.74	0.05432	0.05040
7301-004	3-lp DC	730-040000	725-040000	SS-316	240.44	257.23	0.05359	0.04899
7301-005	3-lp DC	730-050000	725-030000	SS-316	273.54	310.01	0.06498	0.06874
7301-006	3-lp DC	730-060000	725-030000	SS-316	296.62	319.18	0.06220	0.06009
7301-007	3-lp DC	730-070000	725-030000	SS-316	333.53	336.64	0.04466	0.03388
7301-008	3-lp DC	732-010000	725-020000	SS-316	372.71	385.64	0.06179	0.05586
7301-009	3-lp DC	734-010000	725-020000	SS-316	375.20	386.75	0.06056	0.05411
7301-010	3-lp DC	736-010000	725-010000	SS-316	411.30	443.39	0.07580	0.09152
7301-011	3-lp DC	738-010000	725-010000	SS-316	501.00	482.53	0.06622	0.07920
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	368.67	365.08	0.04732	0.03777
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	372.74	367.21	0.05243	0.04225
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	373.42	367.54	0.05326	0.04288
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	372.55	367.08	0.05248	0.04199
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	384.09	387.36	0.04821	0.03713
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	381.94	386.18	0.05050	0.04017
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	378.14	384.21	0.05386	0.04463
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	386.38	413.36	0.07205	0.07276
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	386.63	413.46	0.07199	0.07264
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	423.46	473.33	0.08309	0.10815
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	513.83	509.62	0.04528	0.05451

Table HLt4-6: HL LOCA Case 7B: SG Fluid Conditions (t= 5470 seconds)

Table HLt4-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	520.07	550.27
623-010000	366.645	0.000	542.16	550.27
624-010000	155.893	0.000	482.76	550.54
624-020000	43.0063	0.000	431.28	550.93
624-030000	59.1345	0.000	379.71	551.43
624-040000	43.0063	0.000	326.97	551.94
625-010000	180.0195	0.000	507.16	550.53
625-020000	73.3451	0.000	461.13	550.91
625-030000	100.851	0.000	420.67	551.39
625-040000	73.3451	0.000	389.39	551.88
630-010000	70.1162184	0.000	400.62	552.04
630-020000	70.1162184	0.000	411.23	551.94
630-030000	70.1162184	0.000	418.42	551.83
630-040000	70.1162184	0.000	421.6	551.73
630-050000	105.1801882	0.000	428.99	551.6
630-060000	140.2324368	0.000	430.32	551.43
630-070000	140.2324368	0.000	429.93	551.22
631-010000	70.1162184	0.000	277.62	552.1
631-020000	70.1162184	0.000	284.44	551.99
631-030000	70.1162184	0.000	295.23	551.87
631-040000	70.1162184	0.000	312.17	551.76
631-050000	105.1801882	0.000	337.64	551.63
631-060000	140.2324368	0.000	358.56	551.44
631-070000	140.2324368	0.000	395.94	551.23
632-010000	140.2324368	0.000	438.72	551.02
633-010000	140.2324368	0.000	438.18	551.02
634-010000	140.2324368	0.000	440.5	550.82
635-010000	140.2324368	0.000	440.68	550.82
636-010000	86.6724134	0.000	469.37	550.66
637-010000	86.6724134	0.000	469.38	550.66
638-010000	609.5223	0.000	508.63	550.47
639-010000	635.2819708	0.676	545.58	550.14

Table HLt4-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.308638	0.000	537.77	550.27
641-010000	117.5144724	0.685	549.83	550.16
642-010000	320.0188	1.000	550.14	553.67
645-010000	1075.296	1.000	550.14	554.03
650-010000	830.204	1.000	550.13	552.48
660-010000	703.6759	1.000	550.12	554.71
670-010000	400	1.000	550.11	555.01
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	545.89	545.91
723-010000	1099.935	0.000	532.95	545.91
724-010000	467.679	0.000	504.08	546.17
724-020000	129.0189	0.000	437.41	546.57
724-030000	177.4035	0.000	392.75	547.07
724-040000	129.0189	0.000	358.49	547.59
725-010000	540.0185	0.000	466.46	546.18
725-020000	220.0353	0.000	400.17	546.59
725-030000	302.553	0.000	342.12	547.12
725-040000	220.0353	0.000	277.47	547.65
730-010000	210.3486552	0.000	219.48	547.82
730-020000	210.3486552	0.000	215.91	547.7
730-030000	210.3486552	0.000	216.89	547.59
730-040000	210.3486552	0.000	222.21	547.47
730-050000	315.5405646	0.000	239.69	547.32
730-060000	420.6973104	0.000	274.7	547.12
730-070000	420.6973104	0.000	329.33	546.89
731-010000	210.3486552	0.000	373.03	547.75
731-020000	210.3486552	0.000	379.16	547.65
731-030000	210.3486552	0.000	380.23	547.54
731-040000	210.3486552	0.000	379	547.43
731-050000	315.5405646	0.000	379.5	547.29
731-060000	420.6973104	0.000	376.36	547.1

Table HLt4-6 – HL LOCA Case 7B: SG Fluid Conditions (t= 5470 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.6973104	0.000	370.76	546.89
732-010000	420.6973104	0.000	359.37	546.67
733-010000	420.6973104	0.000	361.95	546.67
734-010000	420.6973104	0.000	363.06	546.44
735-010000	420.6973104	0.000	362.31	546.45
736-010000	260.0172402	0.000	383.75	546.27
737-010000	260.0172402	0.000	383.68	546.27
738-010000	1828.5669	0.000	519.86	546.07
739-010000	1905.845912	0.788	541.52	545.82
740-010000	375.925914	0.049	540.63	545.87
741-010000	352.5434172	1.000	545.8	546.79
742-010000	960.0564	1.000	545.79	550.01
745-010000	3225.888	1.000	545.79	550.64
750-010000	2490.612	1.000	545.78	547.07
760-010000	2111.0277	1.000	545.77	551.27
770-010000	1200	1.000	545.76	552.2

Table CLSt1-1: CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

Table CLSt1-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.6	587.38
1001-002	3-lp HL	63.6	585.52
1001-003	3-lp HL	63.7	595.57
1001-004	3-lp HL	63.5	580.21
1081-001	1-lp sg ch	63.9	609.62
1081-002	1-lp sg ch	63.2	558.13
1082-001	3-lp sg ch	63.9	604.68
1082-002	3-lp sg ch	63.3	563.72
1091-001	1-lp sg ch	60.4	373.21
1091-002	1-lp sg ch	61.8	450.78
1092-001	3-lp sg ch	63.3	538.47
1092-002	3-lp sg ch	63.2	533.29
1251-001	3-lp SG tube	63.2	528.8
1251-002	3-lp SG tube	63.1	524.24
1251-003	3-lp SG tube	63.1	524.28
1251-004	3-lp SG tube	63.1	526.12
1251-005	3-lp SG tube	63.2	529.66
1251-006	3-lp SG tube	63.3	534.17
1251-007	3-lp SG tube	63.3	536.5
1251-008	3-lp SG tube	63.1	525.68
1251-009	3-lp SG tube	63.2	530.37
1251-010	3-lp SG tube	63.2	532.88
1251-011	3-lp SG tube	63.0	520.33
1251-012	3-lp SG tube	62.9	513.3
1251-013	3-lp SG tube	62.7	501.61
1251-014	3-lp SG tube	62.5	491.2
1251-015	3-lp SG tube	62.3	480.39
1251-016	3-lp SG tube	62.1	470.06
1251-017	3-lp SG tube	62.0	463.6
1251-018	3-lp SG tube	61.9	460.38
1251-019	3-lp SG tube	61.9	457.93
1251-020	3-lp SG tube	61.9	456.01

Table CLSt1-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.2	556.46
1401-002	3-lp CL	63.2	556.4
1401-003	3-lp CL	63.2	556.18
1401-004	3-lp CL	63.2	556.03
1401-005	3-lp CL	63.2	555.98
1401-006	3-lp CL	63.2	556.46
1701-001	3-lp CLd	63.2	555.91
1701-002	3-lp CLd	63.2	556.01
1701-003	3-lp CLd	63.1	550.57
1701-004	3-lp CLd	63.1	554.04
1905-001	3-lp sg sh	63.4	544.6
1805-001	1-lp sg sh	63.1	526.62
2001-001	1-lp HL	63.8	599.95
2001-002	1-lp HL	63.8	602.19
2001-003	1-lp HL	63.8	602.43
2001-004	1-lp HL	63.8	603.03
2251-001	sngl tube	60.1	357.06
2251-002	sngl tube	60.1	356.58
2251-003	sngl tube	60.1	356.06
2251-004	sngl tube	60.1	355.61
2251-005	sngl tube	60.1	355.04
2251-006	sngl tube	60.0	354.29
2251-007	sngl tube	60.0	353.52
2251-008	sngl tube	60.0	353.13
2251-009	sngl tube	60.0	353.32
2251-010	sngl tube	60.1	355.54
2251-011	sngl tube	60.0	351.51
2251-012	sngl tube	61.3	423.27
2251-013	sngl tube	61.4	431.99
2251-014	sngl tube	61.5	435.61
2251-015	sngl tube	61.5	437.19
2251-016	sngl tube	61.5	437.9

Table CLSt1-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	61.5	438.37
2251-018	sngl tube	61.6	438.93
2251-019	sngl tube	61.6	439.67
2251-020	sngl tube	61.6	440.59
2401-001	1-lp CL suc	62.9	539.23
2401-002	1-lp CL suc	62.9	537.41
2401-003	1-lp CL suc	62.9	535.63
2401-004	1-lp CL suc	62.8	531.66
2401-005	1-lp CL suc	63.0	546.24
2401-006	1-lp CL suc	63.0	544.47
2701-001	1-lp CL dis	63.1	548.25
2701-002	1-lp CL dis	63.0	547.17
2701-003	1-lp CL dis	63.0	545.63
2701-004	1-lp CL dis	63.0	547.75
101-001	RPV head	63.6	564.02
101-002	RPV head	65.3	558.19
102-001	RPV head flange	63.5	562.78
103-001	RPV nozzle	63.6	563.94
103-002	RPV nozzle	63.5	560.43
104-001	RPV int shell	63.5	557.84
104-002	RPV int shell	63.4	556.08
104-003	RPV int shell	63.4	555.81
105-001	RPV lower shell	63.4	555.01
105-002	RPV lower shell	63.4	554.35
106-001	RPV lower hd	63.3	548.25
106-002	RPV lower hd	65.1	550.36
201-001	core barrel	63.4	574.56
201-002	core barrel	63.2	554.86
201-003	core barrel	62.5	513.79
201-004	core barrel	62.5	510.87
201-005	core barrel	62.4	507.29
201-006	core barrel	62.4	502.18

Table CLSt1-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	62.1	486.88
203-001	fl dis dvce	59.2	312.27
204-001	HR	62.5	507.98
204-002	HR	62.5	509.18
204-003	HR	62.5	510.65
204-004	HR	62.5	511.98
204-005	HR	62.5	513.75
204-006	HR	62.6	516.34
204-007	HR	62.7	522.62
204-008	HR	62.7	524.83
204-009	HR	62.7	526.83
204-010	HR	62.8	528.63
204-011	HR	62.8	530.45
204-012	HR	62.8	532.18
204-013	HR	62.8	533.92
204-014	HR	62.9	536.85
204-015	HR	62.9	538.39
204-016	HR	62.9	539.72
204-017	HR	62.9	540.9
204-018	HR	63.0	541.98
204-019	HR	63.0	542.99
204-020	HR	63.0	546.58
204-021	HR	63.0	547.43
204-022	HR	63.1	548.14
204-023	HR	63.1	548.71
204-024	HR	63.1	549.19
204-025	HR	63.1	549.33
204-026	HR	63.1	548.09
204-027	HR	63.1	548.17
204-028	HR	63.0	547.91
205-001	UPR core plt	63.1	548.75
206-001	LMP	62.7	523.59
206-002	LMP	63.0	542.38

Table CLSt1-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.1	549.88
208-001	CRGA	62.3	499.59
208-002	CRGA	62.7	525.49
208-003	CRGA	60.5	388.67
4001-001	pzr srg	66.1	590.64
4101-001	pzr srg	67.5	643.5
4101-002	pzr srg	67.6	649.42
4101-003	pzr srg	67.7	651.67
4101-004	pzr srg	67.7	653.82
4101-005	pzr srg	67.8	654.53
4101-006	pzr srg	67.8	654.51
4201-001	prz hd	67.4	638.49
4301-001	prz upr hd	67.8	655.63
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	40.5	180.69
301-002	FUEL ASS	41.4	241.64
301-003	FUEL ASS	41.5	248.6
301-004	FUEL ASS	41.7	261.6
301-005	FUEL ASS	41.9	275.88
301-006	FUEL ASS	42.2	292.21
301-007	FUEL ASS	42.4	310.81
301-008	FUEL ASS	42.6	327.7
301-009	FUEL ASS	42.8	342.65
301-010	FUEL ASS	43	357.29
301-011	FUEL ASS	43.2	371.87
301-012	FUEL ASS	43.3	381.13
301-013	FUEL ASS	43.4	389.53
301-014	FUEL ASS	43.5	396.46
301-015	FUEL ASS	43.6	400.51
301-016	FUEL ASS	43.6	403.47

Table CLSt1-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	43.6	405.15
301-018	FUEL ASS	43.6	406.12
301-019	FUEL ASS	43.6	404.99
301-020	FUEL ASS	43.6	402.56
301-021	FUEL ASS	43.6	400
301-022	FUEL ASS	43.5	397.26
301-023	FUEL ASS	43.5	393.4
301-024	FUEL ASS	43.4	389.59
301-025	FUEL ASS	43.4	386.62
301-026	FUEL ASS	43.4	386.27
301-027	FUEL ASS	43.4	389.09
301-028	FUEL ASS	43.1	359.33
301-001	Fuel Cladding	29.1	180.69
301-002	Fuel Cladding	29.3	241.64
301-003	Fuel Cladding	29.4	248.6
301-004	Fuel Cladding	29.4	261.6
301-005	Fuel Cladding	29.5	275.88
301-006	Fuel Cladding	29.6	292.21
301-007	Fuel Cladding	29.7	310.81
301-008	Fuel Cladding	29.7	327.7
301-009	Fuel Cladding	29.8	342.65
301-010	Fuel Cladding	29.9	357.29
301-011	Fuel Cladding	30	371.87
301-012	Fuel Cladding	30	381.13
301-013	Fuel Cladding	30	389.53
301-014	Fuel Cladding	30.1	396.46
301-015	Fuel Cladding	30.1	400.51
301-016	Fuel Cladding	30.1	403.47
301-017	Fuel Cladding	30.1	405.15
301-018	Fuel Cladding	30.1	406.12
301-019	Fuel Cladding	30.1	404.99
301-020	Fuel Cladding	30.1	402.56
301-021	Fuel Cladding	30.1	400

Table CLSt1-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	Fuel Cladding	30.1	397.26
301-023	Fuel Cladding	30.1	393.4
301-024	Fuel Cladding	30	389.59
301-025	Fuel Cladding	30	386.62
301-026	Fuel Cladding	30	386.27
301-027	Fuel Cladding	30	389.09
301-028	Fuel Cladding	29.9	359.33

Table CLSt1-2: CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

Table CLSt1-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	431.18	625.46	0.00199	0
1001-002	3-lp HL	105-010000	0	SS-316	420.45	625.45	0.01132	0
1001-003	3-lp HL	110-010000	0	SS-316	477.25	625.48	0.34409	0
1001-004	3-lp HL	115-010000	0	SS-316	389.24	625.46	0.12855	0
1081-001	1-lp sg ch	220-010000	0	SS-316	512.45	625.76	0.01845	0
1081-002	1-lp sg ch	230-010000	0	SS-316	523.9	564.86	0.00831	0
1082-001	3-lp sg ch	120-010000	0	SS-316	403.48	625.76	0.39783	0
1082-002	3-lp sg ch	130-010000	0	SS-316	558.32	564.85	0.00131	0
1091-001	1-lp sg ch	221-010000	0	alloy690	353.96	377.93	1.17420	0
1091-002	1-lp sg ch	229-010000	0	alloy690	447.54	451.76	0.05378	0
1092-001	3-lp sg ch	121-010000	0	alloy690	537.59	538.68	0.00387	0
1092-002	3-lp sg ch	129-010000	0	alloy690	532.39	533.49	0.00816	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	528.42	529.2	0.00379	0.08636
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	523.89	524.58	0.00404	0.08184
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	523.93	524.6	0.00428	0.07961
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	525.77	526.43	0.00450	0.07813
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	529.31	529.97	0.00476	0.07710
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	533.8	534.48	0.00510	0.07734
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	536.13	536.82	0.00549	0.07749
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	525.39	525.87	0.00590	0.05999
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	530.07	530.59	0.00623	0.08047
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	532.59	533.1	0.00652	0.10671
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	520.12	520.46	0.00683	0.10538
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	513.15	513.38	0.00708	0.13115
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	501.52	501.63	0.00762	0.17096
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	491.16	491.18	0.00777	0.19359
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	480.39	480.33	0.00791	0.19359
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	470.09	469.98	0.00802	0.19354
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	463.63	463.53	0.00809	0.19346
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	460.41	460.32	0.00814	0.19339
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	457.95	457.88	0.00818	0.19334

Table CLSt1-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	456.03	455.96	0.00822	0.19332
1401-001	3-lp CL	135-010000	0	SS-316	524.17	564.73	0.00897	0
1401-002	3-lp CL	140-010000	0	SS-316	523.88	564.73	0.00898	0
1401-003	3-lp CL	145-010000	0	SS-316	522.75	564.73	0.00901	0
1401-004	3-lp CL	150-010000	0	SS-316	522.06	564.72	0.00903	0
1401-005	3-lp CL	155-010000	0	SS-316	521.83	564.72	0.00905	0
1401-006	3-lp CL	160-010000	0	SS-316	522.75	565.1	0.00807	0
1701-001	3-lp CLd	165-010000	0	SS-316	518.75	565.41	0.00903	0
1701-002	3-lp CLd	170-010000	0	SS-316	519.21	565.41	0.00898	0
1701-003	3-lp CLd	175-010000	0	SS-316	489.99	565.39	0.06195	0
1701-004	3-lp CLd	180-010000	0	SS-316	507.83	565.4	0.00955	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	389.06	559.35	0.29124	0.00131
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	382.25	492.15	0.39760	0.00843
2001-001	1-lp HL	200-010000	0	SS-316	489.79	625.58	0.11256	0
2001-002	1-lp HL	205-010000	0	SS-316	504.53	625.57	0.04218	0
2001-003	1-lp HL	210-010000	0	SS-316	506.6	625.56	0.03915	0
2001-004	1-lp HL	215-010000	0	SS-316	510.7	625.55	0.03458	0
2251-001	sngl tube	225-010000	630-010000	alloy690	351.83	361.73	1.24130	0.12398
2251-002	sngl tube	225-020000	630-020000	alloy690	351.27	361.32	1.28560	0.12438
2251-003	sngl tube	225-030000	630-030000	alloy690	350.66	360.88	1.33980	0.12482
2251-004	sngl tube	225-040000	630-040000	alloy690	350.1	360.53	1.39100	0.12534
2251-005	sngl tube	225-050000	630-050000	alloy690	349.41	360.08	1.44590	0.12601
2251-006	sngl tube	225-060000	630-060000	alloy690	348.42	359.54	1.51990	0.12718
2251-007	sngl tube	225-070000	630-070000	alloy690	347.28	359.12	1.60590	0.12904
2251-008	sngl tube	225-080000	632-010000	alloy690	346.25	359.32	1.68580	0.13213
2251-009	sngl tube	225-090000	634-010000	alloy690	345.41	360.46	1.75490	0.13675
2251-010	sngl tube	225-100000	636-010000	alloy690	345.44	364.69	1.80320	0.14546
2251-011	sngl tube	225-110000	637-010000	alloy690	342.83	359.35	1.80800	0.14689
2251-012	sngl tube	225-120000	635-010000	alloy690	421.02	425.47	0.05324	0.17022
2251-013	sngl tube	225-130000	633-010000	alloy690	430.28	433.61	0.05287	0.18294
2251-014	sngl tube	225-140000	631-070000	alloy690	434.27	436.88	0.05301	0.18553

Table CLSt1-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	436.09	438.25	0.05323	0.18645
2251-016	sngl tube	225-160000	631-050000	alloy690	436.9	438.86	0.05351	0.18716
2251-017	sngl tube	225-170000	631-040000	alloy690	437.42	439.31	0.05378	0.18764
2251-018	sngl tube	225-180000	631-030000	alloy690	438.02	439.83	0.05392	0.18802
2251-019	sngl tube	225-190000	631-020000	alloy690	438.79	440.55	0.05397	0.18840
2251-020	sngl tube	225-200000	631-010000	alloy690	439.69	441.5	0.05401	0.18876
2401-001	1-lp CL suc	235-010000	0	SS-316	434.98	564.63	0.05362	0
2401-002	1-lp CL suc	240-010000	0	SS-316	426.99	564.61	0.05331	0
2401-003	1-lp CL suc	245-010000	0	SS-316	419.45	564.58	0.05363	0
2401-004	1-lp CL suc	250-010000	0	SS-316	403.11	564.51	0.05297	0
2401-005	1-lp CL suc	255-010000	0	SS-316	471.8	564.67	0.01559	0
2401-006	1-lp CL suc	260-010000	0	SS-316	465.41	564.99	0.01366	0
2701-001	1-lp CL dis	265-010000	0	SS-316	476.38	565.62	0.08647	0
2701-002	1-lp CL dis	270-010000	0	SS-316	469.31	565.62	0.09767	0
2701-003	1-lp CL dis	275-010000	0	SS-316	460.13	565.62	0.78608	0
2701-004	1-lp CL dis	280-010000	0	SS-316	473.56	565.62	0.16367	0
101-001	RPV head	94-010000	0	alloy600	552.15	565.61	0.00122	0
101-002	RPV head	90-010000	0	SA-508	380.9	565.32	1.06800	0
102-001	RPV head flange	90-010000	0	alloy600	380.81	565.32	1.06430	0
103-001	RPV nozzle	10-010000	0	alloy600	492.69	565.56	0.00143	0
103-002	RPV nozzle	12-010000	0	alloy600	390.92	565.54	0.10112	0
104-001	RPV int shell	12-010000	0	alloy600	392.07	565.54	0.09676	0
104-002	RPV int shell	14-010000	0	alloy600	364.18	565.57	1.06380	0
104-003	RPV int shell	16-010000	0	alloy600	364.19	565.58	0.85409	0
105-001	RPV lower shell	16-010000	0	alloy600	363.24	565.58	0.79555	0
105-002	RPV lower shell	18-010000	0	alloy600	352.06	565.59	0.09625	0
106-001	RPV lower hd	18-010000	0	alloy600	348.81	565.58	0.09558	0
106-002	RPV lower hd	20-010000	0	SA-508	373.14	565.59	1.04780	0
201-001	core barrel	10-010000	86-010000	SS-316	501.16	567.11	0.00143	0.00117
201-002	core barrel	12-010000	84-010000	SS-316	385.54	547.71	0.13577	0.02650
201-003	core barrel	14-010000	80-040000	SS-316	357.45	365.45	0.62327	1.03930

Table CLSt1-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	357.44	361.37	0.62301	1.15650
201-005	core barrel	16-010000	80-020000	SS-316	334.52	346.74	0.10073	0.32134
201-006	core barrel	16-010000	80-010000	SS-316	334.51	299.64	0.10073	0.28635
202-001	low sup plate	22-010000	0	SS-316	329.69	546.27	0.07146	0
203-001	fl dis dvce	22-010000	0	SS-316	271.54	337.59	0.06082	0
204-001	HR	24-010000	80-010000	SS-316	266.96	299.81	0.08887	0.28635
204-002	HR	26-010000	80-010000	SS-316	271.11	299.84	0.09018	0.28635
204-003	HR	28-010000	80-010000	SS-316	275.91	299.9	0.09168	0.28635
204-004	HR	30-010000	80-010000	SS-316	280.18	299.95	0.09301	0.28635
204-005	HR	32-010000	80-010000	SS-316	285.61	300.02	0.09466	0.28635
204-006	HR	34-010000	80-010000	SS-316	293.07	300.1	0.09682	0.28635
204-007	HR	36-010000	80-020000	SS-316	299.45	347.14	0.09887	0.32134
204-008	HR	38-010000	80-020000	SS-316	306.87	347.22	0.10121	0.32134
204-009	HR	40-010000	80-020000	SS-316	313.94	347.3	0.10352	0.32134
204-010	HR	42-010000	80-020000	SS-316	320.91	347.37	0.10539	0.32134
204-011	HR	44-010000	80-020000	SS-316	328.06	347.46	0.10719	0.32134
204-012	HR	46-010000	80-020000	SS-316	335.09	347.54	0.10881	0.32134
204-013	HR	48-010000	80-020000	SS-316	342.15	347.63	0.11025	0.32134
204-014	HR	50-010000	80-030000	SS-316	348.94	361.67	0.11131	1.17800
204-015	HR	52-010000	80-030000	SS-316	355.12	361.69	0.40085	1.17980
204-016	HR	54-010000	80-030000	SS-316	358.36	361.72	0.63181	1.18140
204-017	HR	56-010000	80-030000	SS-316	360.06	361.74	0.76434	1.18300
204-018	HR	58-010000	80-030000	SS-316	361.26	361.76	0.86529	1.18470
204-019	HR	60-010000	80-030000	SS-316	362.18	361.79	0.94651	1.18680
204-020	HR	62-010000	80-040000	SS-316	362.9	366.18	1.01400	1.05850
204-021	HR	64-010000	80-040000	SS-316	363.6	366.22	1.07970	1.05950
204-022	HR	66-010000	80-040000	SS-316	364.07	366.3	1.12900	1.06160
204-023	HR	68-010000	80-040000	SS-316	364.47	366.36	1.17210	1.06320
204-024	HR	70-010000	80-040000	SS-316	364.75	366.39	1.20570	1.06410
204-025	HR	72-010000	80-040000	SS-316	364.77	366.41	1.21340	1.06450
204-026	HR	74-010000	80-040000	SS-316	364.52	366.41	1.19630	1.06470
204-027	HR	76-010000	80-040000	SS-316	364.58	366.42	1.19330	1.06490

Table CLSt1-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	364.72	366.38	1.19080	1.06380
205-001	UPR core plt	84-010000	0	SS-316	528.81	566.93	0.03380	0
206-001	LMP	84-010000	0	SS-316	514.03	528.09	0.03929	0
206-002	LMP	86-010000	0	SS-316	541.29	543	0.00112	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	571.74	438.21	0.00118	0.19342
208-001	CRGA	84-010000	0	SS-316	489.65	504.64	0.05295	0
208-002	CRGA	86-010000	0	SS-316	524.76	525.96	0.00109	0
208-003	CRGA	92-010000	0	SS-316	369.5	400.3	0.32673	0
4001-001	pzr srg	400-010000	0	SA-508	538.88	617.23	0.02151	0
4101-001	pzr srg	410-010000	0	SA-508	625.86	646.64	0.00133	0
4101-002	pzr srg	410-020000	0	SA-508	635.41	651.9	0.00135	0
4101-003	pzr srg	410-030000	0	SA-508	640.95	653.51	0.00136	0
4101-004	pzr srg	410-040000	0	SA-508	646.18	655.06	0.00136	0
4101-005	pzr srg	410-050000	0	SA-508	650.44	655.04	0.00137	0
4101-006	pzr srg	410-060000	0	SA-508	650.4	655.02	0.00137	0
4201-001	prz hd	408-010000	0	SA-508	613.42	643.25	0.00120	0
4301-001	prz upr hd	412-010000	0	SA-508	651.34	656.21	0.00137	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLSt1-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		166.32		0.07214
301-002	Fuel Cladding	0	26-010000	cladding		181.92		0.07304
301-003	Fuel Cladding	0	28-010000	cladding		190.94		0.07412
301-004	Fuel Cladding	0	30-010000	cladding		199.22		0.07509
301-005	Fuel Cladding	0	32-010000	cladding		207.72		0.07623
301-006	Fuel Cladding	0	34-010000	cladding		217.54		0.07760
301-007	Fuel Cladding	0	36-010000	cladding		228.48		0.07923
301-008	Fuel Cladding	0	38-010000	cladding		239.43		0.08113
301-009	Fuel Cladding	0	40-010000	cladding		250.24		0.08326
301-010	Fuel Cladding	0	42-010000	cladding		261.53		0.08535
301-011	Fuel Cladding	0	44-010000	cladding		273.36		0.08758
301-012	Fuel Cladding	0	46-010000	cladding		283.65		0.08989
301-013	Fuel Cladding	0	48-010000	cladding		293.96		0.09223
301-014	Fuel Cladding	0	50-010000	cladding		303.94		0.09447
301-015	Fuel Cladding	0	52-010000	cladding		312.99		0.09660

Table CLSt1-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		320.96		0.09849
301-017	Fuel Cladding	0	56-010000	cladding		328.47		0.10028
301-018	Fuel Cladding	0	58-010000	cladding		335.54		0.10195
301-019	Fuel Cladding	0	60-010000	cladding		341.66		0.10339
301-020	Fuel Cladding	0	62-010000	cladding		346.9		0.10470
301-021	Fuel Cladding	0	64-010000	cladding		351.43		0.22256
301-022	Fuel Cladding	0	66-010000	cladding		353.45		0.37189
301-023	Fuel Cladding	0	68-010000	cladding		354.1		0.42781
301-024	Fuel Cladding	0	70-010000	cladding		354.35		0.45465
301-025	Fuel Cladding	0	72-010000	cladding		354.03		0.43849
301-026	Fuel Cladding	0	74-010000	cladding		353.65		0.43151
301-027	Fuel Cladding	0	76-010000	cladding		353.28		0.42667
301-028	Fuel Cladding	0	78-010000	cladding		351.63		0.35403

Table CLSt1-3: CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 40.5 seconds)

Table CLSt1-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.986	349.5	352.5
105-010000	112.108	0.961	349.9	358.6
110-010000	90.692	0.705	350.3	364.3
115-010000	99.530	0.798	348.9	352.0
117-010000	34.487	0.772	348	348.1
120-010000	605.616	0.901	348.5	347.8
121-010000	90.006	1.000	347.9	403.2
125-010000	104.546	0.999	347.9	406.3
125-020000	104.546	0.998	347.9	403.3
125-030000	104.546	0.997	347.9	401.5
125-040000	104.546	0.997	347.9	401.8
125-050000	156.828	0.997	347.9	405.1
125-060000	209.092	0.997	347.8	412.1
125-070000	209.092	0.998	347.8	420.6
125-080000	209.092	0.998	347.8	426.0
125-090000	209.092	0.999	347.8	436.1
125-100000	182.764	0.999	347.8	447.9
125-110000	182.764	1.000	347.7	455.2
125-120000	209.092	1.000	347.7	461.6
125-130000	209.092	1.000	347.7	463.2
125-140000	209.092	1.000	347.7	462.9
125-150000	209.092	1.000	347.7	461.4
125-160000	156.828	1.000	347.7	459.7
125-170000	104.546	1.000	347.7	458.5
125-180000	104.546	1.000	347.7	457.5
125-190000	104.546	1.000	347.7	456.4
125-200000	104.546	1.000	347.7	455.3
129-010000	90.006	1.000	347.7	477.4
130-010000	605.616	1.000	347.7	472.4
132-010000	34.487	1.000	347.6	472.0
135-010000	51.857	1.000	347.7	471.9
140-010000	61.586	1.000	347.7	472.0

Table CLSt1-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	347.7	472.1
150-010000	102.591	1.000	347.7	472.3
155-010000	108.946	1.000	347.8	472.6
160-010000	413.100	1.000	347.9	485.6
165-010000	105.120	1.000	348	486.9
170-010000	105.120	1.000	348.1	488.3
175-010000	135.835	0.961	176.2	487.4
180-010000	116.691	0.992	186.5	488.4
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.969	347.9	349.1
205-010000	37.369	0.974	346.9	347.6
210-010000	30.231	0.979	346.5	347.4
215-010000	33.177	0.980	346.1	346.7
217-010000	11.496	0.989	345.5	345.4
220-010000	201.872	0.970	346.4	346.5
221-010000	30.002	0.983	346.1	346.1
225-010000	34.849	0.985	345.7	345.7
225-020000	34.849	0.988	345.3	345.3
225-030000	34.849	0.990	344.8	344.8
225-040000	34.849	0.992	344.4	344.3
225-050000	52.276	0.993	343.8	343.9
225-060000	69.697	0.995	342.9	343.1
225-070000	69.697	0.996	341.7	342.1
225-080000	69.697	0.997	340.4	340.9
225-090000	69.697	0.998	339	339.7
225-100000	60.921	0.999	337.5	338.3
225-110000	60.921	0.999	336	337
225-120000	69.697	0.999	334.3	366.3
225-130000	69.697	0.999	332.4	386.3
225-140000	69.697	1.000	330.3	399.6
225-150000	69.697	1.000	328.1	408.1

Table CLSt1-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	1.000	326	412.1
225-170000	34.849	1.000	324.4	413.9
225-180000	34.849	1.000	323.1	416.1
225-190000	34.849	1.000	321.7	418
225-200000	34.849	1.000	320.3	419.1
229-010000	30.002	1.000	319	422.9
230-010000	201.872	1.000	319	413.1
232-010000	11.496	1.000	303.1	338.6
235-010000	17.286	1.000	298.1	324.4
240-010000	20.529	1.000	293.5	312
245-010000	38.892	1.000	290.6	305.8
250-010000	34.197	1.000	283.2	287
255-010000	36.315	0.973	307	314.1
260-010000	137.700	0.893	328	335.9
265-010000	35.040	0.977	331.4	418.2
270-010000	35.040	0.976	318.2	419.8
275-010000	45.278	0.971	294.6	420.5
280-010000	38.897	0.987	318.8	427.5
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.992	331.6	404.9
12-010000	184.160	0.908	260	468.9
14-010000	366.488	0.000	244.8	349.4
16-010000	414.895	0.000	194.2	351.5
18-010000	120.792	0.000	165.3	352.9
20-010000	212.629	0.000	141.4	353.5
22-010000	315.096	0.000	154.4	352.8
24-010000	45.438	0.000	156.4	352.2
26-010000	48.504	0.000	159.9	352.1
28-010000	48.504	0.000	164.1	351.9
30-010000	35.789	0.000	167.8	351.8

Table CLSt1-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
32-010000	35.789	0.000	172.2	351.6
34-010000	35.789	0.000	177.5	351.5
36-010000	35.789	0.000	184	351.4
38-010000	35.789	0.000	191.6	351.2
40-010000	35.789	0.000	200.4	351.1
42-010000	35.789	0.000	210.2	351
44-010000	35.789	0.000	221.1	350.9
46-010000	35.789	0.000	232.5	350.7
48-010000	35.789	0.000	244.4	350.6
50-010000	35.789	0.000	256.5	350.5
52-010000	35.789	0.000	268.7	350.4
54-010000	33.109	0.000	279.8	350.2
56-010000	33.109	0.000	290.6	350.1
58-010000	33.109	0.000	301.1	350
60-010000	33.109	0.000	311.1	349.9
62-010000	33.109	0.000	320.4	349.8
64-010000	33.109	0.000	329	349.7
66-010000	33.109	0.000	336.8	349.6
68-010000	33.109	0.000	343.4	349.5
70-010000	33.109	0.000	348.6	349.3
72-010000	21.064	0.235	349.3	349.3
74-010000	21.064	0.386	349.2	349.2
76-010000	21.051	0.470	349.2	349.2
78-010000	86.638	0.551	349.1	349.1
80-010000	5.964	0.000	234.5	351.1
80-020000	4.483	0.000	298	350.2
80-030000	4.951	0.225	343.5	349.4
80-040000	5.894	0.951	348.9	349
82-010000	28.768	0.000	192.5	349.6
82-020000	21.625	0.000	239.9	348.7
82-030000	23.882	0.000	301.2	347.9
82-040000	28.430	0.285	342.3	347.1
84-010000	573.893	0.819	349.8	348.7

Table CLSt1-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
86-010000	276.840	1.000	348.7	351.5
88-010000	202.853	1.000	352.6	352.4
88-020000	83.659	1.000	352.6	352.5
88-030000	182.966	1.000	352.6	352.5
90-010000	120.233	0.557	356.2	356.1
92-010000	505.835	0.546	356.7	361.3
94-010000	267.973	1.000	355.6	356.2
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	0.997	350.9	380.6
408-010000	161.115	0.998	353.2	353.1
410-010000	395.598	1.000	353.2	353
410-020000	395.598	1.000	353.2	353
410-030000	395.598	1.000	353.2	353
410-040000	395.598	1.000	353.2	353
410-050000	395.598	1.000	353.2	353
410-060000	395.598	1.000	353.2	352.9
412-010000	161.115	1.000	353.2	353

Table CLSt1-4: CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 40.5 seconds)

Table CLSt1-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.262	562.59
1552-001	sg sep	63.169	556.14
1601-001	sg sep	63.543	582.31
1621-001	sg sep	63.277	563.62
1641-001	sg sep	63.584	585.17
1641-002	sg sep	63.612	587.18
1801-001	1-lp sg sh	65.300	557.65
1801-002	1-lp sg sh	65.262	556.17
1801-003	1-lp sg sh	65.185	553.14
1802-001	1-lp sg sh	65.333	558.93
1803-001	1-lp sg sh	65.409	561.91
1803-002	1-lp sg sh	65.339	559.17
1803-003	1-lp sg sh	65.351	559.65
1803-004	1-lp sg sh	65.411	562.02
1803-005	1-lp sg sh	65.410	561.95
1804-001	1-lp sg sh	65.412	562.05
1806-001	1-lp sg sh	65.341	559.24
1807-001	1-lp sg sh	62.331	499.89
1807-002	1-lp sg sh	61.816	466.64
1808-001	1-lp sg sh	62.577	516.08
1808-002	1-lp sg sh	62.572	515.78
1808-003	1-lp sg sh	62.571	515.68
1808-004	1-lp sg sh	62.572	515.79
1808-005	1-lp sg sh	62.578	516.2
1808-006	1-lp sg sh	62.584	516.57
1808-007	1-lp sg sh	62.598	517.51
1808-008	1-lp sg sh	62.648	520.8
1808-009	1-lp sg sh	62.713	525.19
1808-010	1-lp sg sh	62.007	478.89
1808-011	1-lp sg sh	62.081	483.61
1808-012	1-lp sg sh	62.146	487.83
1808-013	1-lp sg sh	62.228	493.16

Table CLSt1-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	62.329	499.77
1808-015	1-lp sg sh	62.402	504.53
1808-016	1-lp sg sh	62.463	508.53
1808-017	1-lp sg sh	62.561	515.03
1808-018	1-lp sg sh	62.593	517.16
6241-001	DC sleeve	61.878	470.61
6241-002	DC sleeve	62.077	483.39
6241-003	DC sleeve	62.157	488.55
6241-004	DC sleeve	62.390	503.78
6301-001	hot DC	62.192	490.82
6301-002	hot DC	62.186	490.44
6301-003	hot DC	62.183	490.24
6301-004	hot DC	62.182	490.18
6301-005	hot DC	62.417	505.52
6301-006	hot DC	62.421	505.78
6301-007	hot DC	62.426	506.1
6301-008	hot DC	62.552	514.45
6301-009	hot DC	62.597	517.4
6301-010	hot DC	62.727	526.09
6301-011	hot DC	63.128	553.31
6311-001	cold DC	61.657	456.64
6311-002	cold DC	61.659	456.71
6311-003	cold DC	61.661	456.87
6311-004	cold DC	61.664	457.08
6311-005	cold DC	61.655	456.51
6311-006	cold DC	61.669	457.39
6311-007	cold DC	61.684	458.33
6311-008	cold DC	61.673	457.63
6311-009	cold DC	61.693	458.89
6311-010	cold DC	61.809	466.24
6311-011	cold DC	62.238	493.78

Table CLSt1-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1543-001	sg sep	63.279	563.8
1553-001	sg sep	63.220	559.68
1602-001	sg sep	63.607	586.8
1622-001	sg sep	63.297	565
1642-001	sg sep	63.639	589.12
1642-002	sg sep	63.762	597.86
1901-001	3-lp sg sh	65.333	558.96
1901-002	3-lp sg sh	65.327	558.69
1901-003	3-lp sg sh	65.320	558.43
1902-001	3-lp sg sh	65.337	559.09
1903-001	3-lp sg sh	65.429	562.7
1903-002	3-lp sg sh	65.341	559.24
1903-003	3-lp sg sh	65.353	559.73
1903-004	3-lp sg sh	65.436	562.99
1903-005	3-lp sg sh	65.434	562.89
1904-001	3-lp sg sh	65.438	563.06
1906-001	3-lp sg sh	65.492	565.17
1907-001	3-lp sg sh	63.068	549.25
1907-002	3-lp sg sh	61.890	471.37
1908-001	3-lp sg sh	63.094	551.02
1908-002	3-lp sg sh	63.094	551
1908-003	3-lp sg sh	63.103	551.62
1908-004	3-lp sg sh	63.127	553.28
1908-005	3-lp sg sh	63.160	555.54
1908-006	3-lp sg sh	63.176	556.66
1908-007	3-lp sg sh	63.136	553.92
1908-008	3-lp sg sh	63.153	555.07
1908-009	3-lp sg sh	63.145	554.5
1908-010	3-lp sg sh	62.106	485.26
1908-011	3-lp sg sh	62.221	492.72
1908-012	3-lp sg sh	62.329	499.74
1908-013	3-lp sg sh	62.473	509.19
1908-014	3-lp sg sh	62.645	520.66

Table CLSt1-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 40.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-015	3-lp sg sh	62.779	529.57
1908-016	3-lp sg sh	62.888	536.99
1908-017	3-lp sg sh	63.000	544.59
1908-018	3-lp sg sh	63.070	549.34
7241-001	3-lp DC sleeve	62.259	495.15
7241-002	3-lp DC sleeve	62.254	494.83
7241-003	3-lp DC sleeve	62.237	493.72
7241-004	3-lp DC sleeve	62.434	506.63
7301-001	3-lp DC	63.102	551.58
7301-002	3-lp DC	63.081	550.09
7301-003	3-lp DC	63.078	549.93
7301-004	3-lp DC	63.085	550.38
7301-005	3-lp DC	63.114	552.35
7301-006	3-lp DC	63.141	554.26
7301-007	3-lp DC	63.155	555.18
7301-008	3-lp DC	63.121	552.83
7301-009	3-lp DC	63.134	553.75
7301-010	3-lp DC	63.136	553.91
7301-011	3-lp DC	63.252	561.92
7311-001	3-lp DC cold	61.712	460.09
7311-002	3-lp DC cold	61.737	461.65
7311-003	3-lp DC cold	61.765	463.46
7311-004	3-lp DC cold	61.798	465.52
7311-005	3-lp DC cold	61.835	467.9
7311-006	3-lp DC cold	61.908	472.52
7311-007	3-lp DC cold	61.975	476.85
7311-008	3-lp DC cold	62.006	478.8
7311-009	3-lp DC cold	62.047	481.43
7311-010	3-lp DC cold	62.227	493.1
7311-011	3-lp DC cold	62.355	501.45

Table CLSt1-5: CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 40.5 seconds)

Table CLSt1-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	562.07	562.88	0.05508	0.02667
1552-001	sg sep	640-010000	623-010000	SS-316	554.91	556.97	0.06633	0.05025
1601-001	sg sep	642-010000	645-010000	SS-316	582.69	585.13	0.22407	0.30948
1621-001	sg sep	660-010000	660-010000	SS-316	577.25	577.25	0.26210	0.26210
1641-001	sg sep	645-010000	642-010000	SS-316	586.27	584.65	0.34020	0.24568
1641-002	sg sep	650-010000	650-010000	SS-316	587.6	587.62	0.51286	0.51624
1801-001	1-lp sg sh	625-020000	0	SA-508	550.13	558.81	0.15226	0
1801-002	1-lp sg sh	625-030000	0	SA-508	541.22	558.58	0.15345	0
1801-003	1-lp sg sh	625-040000	0	SA-508	521.82	558.42	0.15303	0
1802-001	1-lp sg sh	625-010000	0	SA-508	558.44	558.97	0.07665	0
1803-001	1-lp sg sh	645-010000	0	SA-508	577.43	558.95	0.23284	0
1803-002	1-lp sg sh	623-010000	0	SA-508	559.54	559.09	0.01621	0
1803-003	1-lp sg sh	639-010000	0	SA-508	562.46	559.09	0.01296	0
1803-004	1-lp sg sh	650-010000	0	SA-508	578.94	558.69	0.28576	0
1803-005	1-lp sg sh	660-010000	0	SA-508	578.56	558.68	0.27034	0
1804-001	1-lp sg sh	670-010000	0	SA-508	579.49	558.63	0.31320	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	552.66	558.99	0.07752	0.07520
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	481.16	481.16	0.09809	0.09809
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	461.04	461.04	0.14349	0.14349
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	491.44	491.44	0.10136	0.10136
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	491.2	491.2	0.10123	0.10123
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	491.19	491.19	0.10114	0.10114
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	491.43	491.43	0.10109	0.10109
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	492.15	492.15	0.10103	0.10103
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	492.9	492.9	0.10070	0.10070
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	494.87	494.87	0.10011	0.10011
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	500.07	500.07	0.09964	0.09964
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	507.96	507.96	0.09696	0.09696
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	466.86	466.86	0.14321	0.14321
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	469.3	469.3	0.14293	0.14293
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	471.57	471.57	0.14264	0.14264

Table CLSt1-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	474.66	474.66	0.14228	0.14228
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	478.94	478.94	0.14173	0.14173
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	482.47	482.47	0.14104	0.14104
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	486.33	486.33	0.13907	0.13907
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	493.66	493.66	0.12940	0.12940
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	495.75	495.75	0.11166	0.11166
6241-001	DC sleeve	624-040000	625-040000	SS-316	458.19	469	0.43151	0.15303
6241-002	DC sleeve	624-030000	625-030000	SS-316	459.83	497.17	0.43129	0.15345
6241-003	DC sleeve	624-020000	625-020000	SS-316	459.5	511.07	0.43107	0.15226
6241-004	DC sleeve	624-010000	625-010000	SS-316	478.32	525.76	0.12571	0.10390
6301-001	hot DC	630-010000	625-040000	SS-316	472.88	482.87	0.09516	0.15303
6301-002	hot DC	630-020000	625-040000	SS-316	472.66	482.57	0.09503	0.15303
6301-003	hot DC	630-030000	625-040000	SS-316	472.59	482.4	0.09493	0.15303
6301-004	hot DC	630-040000	625-040000	SS-316	472.69	482.3	0.09485	0.15303
6301-005	hot DC	630-050000	625-030000	SS-316	479.09	511.46	0.09702	0.15345
6301-006	hot DC	630-060000	625-030000	SS-316	479.77	511.47	0.09692	0.15345
6301-007	hot DC	630-070000	625-030000	SS-316	480.83	511.45	0.09663	0.15345
6301-008	hot DC	632-010000	625-020000	SS-316	485.97	526.76	0.09707	0.15226
6301-009	hot DC	634-010000	625-020000	SS-316	491.18	527.91	0.09648	0.15226
6301-010	hot DC	636-010000	625-010000	SS-316	502	539.76	0.09457	0.06988
6301-011	hot DC	638-010000	625-010000	SS-316	546.65	555.18	0.07223	0.06596
6311-001	cold DC	631-010000	624-040000	SS-316	455.18	453.52	0.14349	0.43151
6311-002	cold DC	631-020000	624-040000	SS-316	454.88	453.58	0.14321	0.43151
6311-003	cold DC	631-030000	624-040000	SS-316	454.86	453.66	0.14293	0.43151
6311-004	cold DC	631-040000	624-040000	SS-316	454.97	453.74	0.14264	0.43151
6311-005	cold DC	631-050000	624-030000	SS-316	454.67	452.87	0.14228	0.43129
6311-006	cold DC	631-060000	624-030000	SS-316	455.52	453.18	0.14173	0.43129
6311-007	cold DC	631-070000	624-030000	SS-316	456.57	453.48	0.14104	0.43129
6311-008	cold DC	633-010000	624-020000	SS-316	456.41	452.22	0.13907	0.43107
6311-009	cold DC	635-010000	624-020000	SS-316	457.53	452.64	0.12940	0.43107
6311-010	cold DC	637-010000	624-010000	SS-316	458.87	461.99	0.11166	0.12571
6311-011	cold DC	638-010000	624-010000	SS-316	507.65	474.19	0.05862	0.12571

Table CLSt1-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
					#N/A	#N/A	#N/A	#N/A
1543-001	sg sep	741-010000	739-010000	SS-316	562.77	564.58	0.08378	0.05647
1553-001	sg sep	740-010000	723-010000	SS-316	558.69	560.42	0.08392	0.05565
1602-001	sg sep	742-010000	745-010000	SS-316	582.4	592.62	0.11710	0.24231
1622-001	sg sep	760-010000	760-010000	SS-316	582.51	582.51	0.22764	0.22764
1642-001	sg sep	745-010000	742-010000	SS-316	592.81	585.55	0.24373	0.12375
1642-002	sg sep	750-010000	750-010000	SS-316	598.47	598.51	0.43774	0.44046
1901-001	3-lp sg sh	725-020000	0	SA-508	559.44	558.81	0.01396	0
1901-002	3-lp sg sh	725-030000	0	SA-508	558.99	558.58	0.01981	0
1901-003	3-lp sg sh	725-040000	0	SA-508	558.24	558.42	0.02799	0
1902-001	3-lp sg sh	725-010000	0	SA-508	559.65	558.97	0.03761	0
1903-001	3-lp sg sh	745-010000	0	SA-508	582.45	558.95	0.19600	0
1903-002	3-lp sg sh	723-010000	0	SA-508	560.1	559.09	0.05787	0
1903-003	3-lp sg sh	739-010000	0	SA-508	563.07	559.08	0.06573	0
1903-004	3-lp sg sh	750-010000	0	SA-508	585.2	558.69	0.24855	0
1903-005	3-lp sg sh	760-010000	0	SA-508	584.65	558.68	0.23520	0
1904-001	3-lp sg sh	770-010000	0	SA-508	586.02	558.63	0.27214	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	563.32	563.2	0.06288	0.08392
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	547.29	547.29	0.06526	0.06526
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	466.09	466.09	0.14696	0.14696
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	546.55	546.55	0.07218	0.07218
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	546.37	546.37	0.07268	0.07268
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	547.13	547.13	0.07203	0.07203
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	549.25	549.25	0.07087	0.07087
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	552.23	552.23	0.06910	0.06910
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	553.66	553.66	0.06796	0.06796
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	549.2	549.2	0.07816	0.07816
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	550.8	550.8	0.07498	0.07498
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	550.07	550.07	0.08112	0.08112
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	474.45	474.45	0.14698	0.14698
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	480.22	480.22	0.14701	0.14701
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	486.14	486.14	0.14706	0.14706

Table CLSt1-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 40.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	494.98	494.98	0.14713	0.14713
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	506.44	506.44	0.14716	0.14716
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	516.38	516.38	0.14716	0.14716
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	526.12	526.12	0.12996	0.12996
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	536.74	536.74	0.09970	0.09970
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	543.03	543.03	0.08011	0.08011
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	464.2	523.07	0.44126	0.10217
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	463.04	523.7	0.44096	0.10367
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	461.17	523.62	0.44065	0.10531
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	479.33	532.49	0.12855	0.11816
7301-001	3-lp DC	730-010000	725-040000	SS-316	548.02	553.81	0.06641	0.03925
7301-002	3-lp DC	730-020000	725-040000	SS-316	545.12	553.17	0.07045	0.04230
7301-003	3-lp DC	730-030000	725-040000	SS-316	544.79	553.11	0.07082	0.04258
7301-004	3-lp DC	730-040000	725-040000	SS-316	545.51	553.37	0.07004	0.04138
7301-005	3-lp DC	730-050000	725-030000	SS-316	547.84	555.13	0.06904	0.04045
7301-006	3-lp DC	730-060000	725-030000	SS-316	550.61	556.38	0.06679	0.03348
7301-007	3-lp DC	730-070000	725-030000	SS-316	551.98	556.98	0.06539	0.02916
7301-008	3-lp DC	732-010000	725-020000	SS-316	546.55	556.3	0.07563	0.03998
7301-009	3-lp DC	734-010000	725-020000	SS-316	548.49	556.75	0.07243	0.03762
7301-010	3-lp DC	736-010000	725-010000	SS-316	548.4	557.37	0.08112	0.05326
7301-011	3-lp DC	738-010000	725-010000	SS-316	559.49	562.81	0.05707	0.03635
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	459.8	456.2	0.14696	0.44126
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	461.86	456.67	0.14698	0.44126
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	464.34	457.18	0.14701	0.44126
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	467.33	457.75	0.14706	0.44126
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	472.17	457.27	0.14713	0.44096
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	480.08	458.37	0.14716	0.44096
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	487.93	459.35	0.14716	0.44096
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	493.65	458.14	0.12996	0.44065
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	498.96	458.67	0.09970	0.44065
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	507.48	473.83	0.08011	0.12855
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	521.2	477.76	0.07618	0.12855

Table CLSt1-6: CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 40.5 seconds)

Table CLSt1-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	552.42	588.86
623-010000	366.645	0.000	559.4	588.86
624-010000	155.893	0.000	448.08	589.08
624-020000	43.006	0.000	449.05	589.37
624-030000	59.135	0.000	450.41	589.74
624-040000	43.006	0.000	451.33	590.11
625-010000	180.02	0.000	548.03	589.05
625-020000	73.345	0.000	521.9	589.34
625-030000	100.851	0.000	495.67	589.7
625-040000	73.345	0.000	448.86	590.06
630-010000	70.116	0.000	408.69	590.2
630-020000	70.116	0.000	408.86	590.12
630-030000	70.116	0.000	409.07	590.03
630-040000	70.116	0.000	409.46	589.95
630-050000	105.18	0.000	409.99	589.85
630-060000	140.232	0.000	411.17	589.71
630-070000	140.232	0.000	413.49	589.54
631-010000	70.116	0.000	449.09	590.18
631-020000	70.116	0.000	447.74	590.1
631-030000	70.116	0.000	447.06	590.02
631-040000	70.116	0.000	446.74	589.94
631-050000	105.18	0.000	446.49	589.84
631-060000	140.232	0.000	446.5	589.7
631-070000	140.232	0.000	446.72	589.54
632-010000	140.232	0.000	418.3	589.38
633-010000	140.232	0.000	446.4	589.38
634-010000	140.232	0.000	426.61	589.22
635-010000	140.232	0.000	444.67	589.22
636-010000	86.672	0.000	445.28	589.09
637-010000	86.672	0.000	427.1	589.09
638-010000	609.522	0.000	521.23	588.94
639-010000	635.282	0.000	562.37	588.74

Table CLSt1-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.000	543.86	588.78
641-010000	117.514	0.000	555.6	588.67
642-010000	320.019	0.653	561.49	601.9
645-010000	1075.296	0.901	563.65	604.13
650-010000	830.204	1.000	588.52	600.65
660-010000	703.676	1.000	588.51	598.52
670-010000	400	1.000	588.5	597.54
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	558.49	600.36
723-010000	1099.935	0.000	563.53	600.36
724-010000	467.679	0.000	449.07	600.57
724-020000	129.019	0.000	450.45	600.83
724-030000	177.404	0.000	452.44	601.18
724-040000	129.019	0.000	453.82	601.53
725-010000	540.019	0.000	561.29	600.55
725-020000	220.035	0.000	559.49	600.81
725-030000	302.553	0.000	558.43	601.12
725-040000	220.035	0.000	556.91	601.43
730-010000	210.349	0.000	537.11	601.53
730-020000	210.349	0.000	531.07	601.46
730-030000	210.349	0.000	530.42	601.4
730-040000	210.349	0.000	531.81	601.33
730-050000	315.541	0.000	535.03	601.24
730-060000	420.697	0.000	539.53	601.12
730-070000	420.697	0.000	541.87	600.99
731-010000	210.349	0.000	455.4	601.6
731-020000	210.349	0.000	457.24	601.52
731-030000	210.349	0.000	459.53	601.45
731-040000	210.349	0.000	462.54	601.37
731-050000	315.541	0.000	468.75	601.28
731-060000	420.697	0.000	479.09	601.15

Table CLSt1-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 40.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.000	490.17	601
732-010000	420.697	0.000	527.76	600.85
733-010000	420.697	0.000	500.85	600.86
734-010000	420.697	0.000	532.88	600.72
735-010000	420.697	0.000	513.18	600.72
736-010000	260.017	0.000	535.12	600.61
737-010000	260.017	0.000	521.08	600.61
738-010000	1828.567	0.000	548.16	600.48
739-010000	1905.846	0.000	567.86	600.26
740-010000	375.926	0.000	552.25	600.33
741-010000	352.543	0.000	556.03	600.22
742-010000	960.056	0.201	562.61	622.47
745-010000	3225.888	0.817	566.88	626.17
750-010000	2490.612	1.000	599.92	620.06
760-010000	2111.028	1.000	600	617.97
770-010000	1200.000	1.000	599.99	615.55

Table CLSt2-1: CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

Table CLSt2-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.4	572.71
1001-002	3-lp HL	63.4	572.48
1001-003	3-lp HL	63.7	593.38
1001-004	3-lp HL	63.4	571.17
1081-001	1-lp sg ch	63.9	609
1081-002	1-lp sg ch	63.2	557.83
1082-001	3-lp sg ch	63.8	598.73
1082-002	3-lp sg ch	63.3	563.64
1091-001	1-lp sg ch	59.8	343.4
1091-002	1-lp sg ch	61.6	443.57
1092-001	3-lp sg ch	63.2	531.2
1092-002	3-lp sg ch	63.2	529.66
1251-001	3-lp SG tube	63.0	519.25
1251-002	3-lp SG tube	63.0	518.73
1251-003	3-lp SG tube	63.0	520.51
1251-004	3-lp SG tube	63.1	522.95
1251-005	3-lp SG tube	63.1	525.53
1251-006	3-lp SG tube	63.1	527.59
1251-007	3-lp SG tube	63.1	523.86
1251-008	3-lp SG tube	62.8	507.02
1251-009	3-lp SG tube	62.9	515.46
1251-010	3-lp SG tube	63.0	518.65
1251-011	3-lp SG tube	62.7	503.08
1251-012	3-lp SG tube	62.5	494.28
1251-013	3-lp SG tube	62.3	481.49
1251-014	3-lp SG tube	62.1	472.13
1251-015	3-lp SG tube	62.0	463.7
1251-016	3-lp SG tube	61.9	457.13
1251-017	3-lp SG tube	61.8	453.76
1251-018	3-lp SG tube	61.8	452.16
1251-019	3-lp SG tube	61.8	450.97
1251-020	3-lp SG tube	61.8	450.22

Table CLSt2-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.2	555.62
1401-002	3-lp CL	63.2	555.55
1401-003	3-lp CL	63.2	555.32
1401-004	3-lp CL	63.2	555.18
1401-005	3-lp CL	63.2	555.13
1401-006	3-lp CL	63.2	555.73
1701-001	3-lp CLd	63.2	555.08
1701-002	3-lp CLd	63.2	555.18
1701-003	3-lp CLd	63.0	546.99
1701-004	3-lp CLd	63.1	549.19
1905-001	3-lp sg sh	63.3	534.8
1805-001	1-lp sg sh	63.0	519.32
2001-001	1-lp HL	63.6	586.83
2001-002	1-lp HL	63.7	594.3
2001-003	1-lp HL	63.7	595.29
2001-004	1-lp HL	63.8	598.43
2251-001	sngl tube	59.7	333.44
2251-002	sngl tube	59.7	332.96
2251-003	sngl tube	59.7	332.46
2251-004	sngl tube	59.6	331.97
2251-005	sngl tube	59.6	331.39
2251-006	sngl tube	59.6	330.61
2251-007	sngl tube	59.6	329.95
2251-008	sngl tube	59.6	329.84
2251-009	sngl tube	59.6	330.75
2251-010	sngl tube	59.7	333.72
2251-011	sngl tube	59.6	330.54
2251-012	sngl tube	61.1	411.97
2251-013	sngl tube	61.2	419.34
2251-014	sngl tube	61.3	426.1
2251-015	sngl tube	61.4	428.82
2251-016	sngl tube	61.4	430.64

Table CLSt2-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	61.4	432.28
2251-018	sngl tube	61.5	433.99
2251-019	sngl tube	61.5	436.03
2251-020	sngl tube	61.5	438.08
2401-001	1-lp CL suc	62.9	535.55
2401-002	1-lp CL suc	62.8	533.7
2401-003	1-lp CL suc	62.8	531.96
2401-004	1-lp CL suc	62.8	528.17
2401-005	1-lp CL suc	63.0	544.34
2401-006	1-lp CL suc	63.0	542.68
2701-001	1-lp CL dis	63.0	546.24
2701-002	1-lp CL dis	63.0	545.15
2701-003	1-lp CL dis	63.0	542.42
2701-004	1-lp CL dis	63.0	545.67
101-001	RPV head	63.6	563.96
101-002	RPV head	65.2	554.88
102-001	RPV head flange	63.5	561.6
103-001	RPV nozzle	63.5	560.62
103-002	RPV nozzle	63.5	557.37
104-001	RPV int shell	63.4	553.21
104-002	RPV int shell	63.4	551.69
104-003	RPV int shell	63.4	551.32
105-001	RPV lower shell	63.4	550.16
105-002	RPV lower shell	63.4	549.77
106-001	RPV lower hd	63.2	541.3
106-002	RPV lower hd	65.0	544.59
201-001	core barrel	63.1	554.8
201-002	core barrel	62.9	538.57
201-003	core barrel	62.2	489.14
201-004	core barrel	62.1	487.47
201-005	core barrel	62.1	484.01
201-006	core barrel	62.0	479.17

Table CLSt2-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	61.8	466.64
203-001	fl dis dvce	58.3	262.58
204-001	HR	62.2	491.46
204-002	HR	62.2	493.29
204-003	HR	62.3	495.34
204-004	HR	62.3	497.21
204-005	HR	62.3	499.36
204-006	HR	62.4	501.8
204-007	HR	62.4	507.68
204-008	HR	62.5	509.58
204-009	HR	62.5	511.28
204-010	HR	62.5	512.81
204-011	HR	62.6	514.33
204-012	HR	62.6	515.77
204-013	HR	62.6	517.21
204-014	HR	62.6	519.88
204-015	HR	62.7	521.15
204-016	HR	62.7	522.31
204-017	HR	62.7	523.32
204-018	HR	62.7	524.27
204-019	HR	62.7	525.19
204-020	HR	62.8	530.31
204-021	HR	62.8	529.88
204-022	HR	62.8	530.53
204-023	HR	62.8	531.25
204-024	HR	62.8	531.66
204-025	HR	62.8	531.8
204-026	HR	62.8	529.18
204-027	HR	62.8	529.02
204-028	HR	62.8	532.08
205-001	UPR core plt	63.0	542.74
206-001	LMP	62.5	511.96
206-002	LMP	62.9	541.01

Table CLSt2-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.0	542.7
208-001	CRGA	62.0	480.84
208-002	CRGA	62.7	523.78
208-003	CRGA	60.1	360.14
4001-001	pzr srg	66.1	588.13
4101-001	pzr srg	67.5	643.4
4101-002	pzr srg	67.6	649.32
4101-003	pzr srg	67.7	651.56
4101-004	pzr srg	67.7	653.71
4101-005	pzr srg	67.8	654.41
4101-006	pzr srg	67.8	654.39
4201-001	prz hd	67.3	638.39
4301-001	prz upr hd	67.8	655.51
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	40.9	206.68
301-002	FUEL ASS	41.5	245.41
301-003	FUEL ASS	41.8	270.31
301-004	FUEL ASS	42.2	293.36
301-005	FUEL ASS	42.4	313.39
301-006	FUEL ASS	42.7	332.05
301-007	FUEL ASS	42.9	349.46
301-008	FUEL ASS	43.1	364.22
301-009	FUEL ASS	43.2	373.52
301-010	FUEL ASS	43.3	379.63
301-011	FUEL ASS	43.4	383.86
301-012	FUEL ASS	43.4	386.34
301-013	FUEL ASS	43.4	387.77
301-014	FUEL ASS	43.4	388.34
301-015	FUEL ASS	43.4	388.01
301-016	FUEL ASS	43.4	387.11

Table CLSt2-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	43.4	385.58
301-018	FUEL ASS	43.4	383.46
301-019	FUEL ASS	43.3	380.69
301-020	FUEL ASS	43.3	377.48
301-021	FUEL ASS	43.2	373.91
301-022	FUEL ASS	43.2	370.3
301-023	FUEL ASS	43.1	365.97
301-024	FUEL ASS	43.1	361.72
301-025	FUEL ASS	43.0	358.21
301-026	FUEL ASS	43.0	356.75
301-027	FUEL ASS	43.0	357.11
301-028	FUEL ASS	42.7	334.69
301-001	**Fuel Cladding**	**29.2**	**206.68**
301-002	**Fuel Cladding**	**29.4**	**245.41**
301-003	**Fuel Cladding**	**29.5**	**270.31**
301-004	**Fuel Cladding**	**29.6**	**293.36**
301-005	**Fuel Cladding**	**29.7**	**313.39**
301-006	**Fuel Cladding**	**29.8**	**332.05**
301-007	**Fuel Cladding**	**29.9**	**349.46**
301-008	**Fuel Cladding**	**29.9**	**364.22**
301-009	**Fuel Cladding**	**30.0**	**373.52**
301-010	**Fuel Cladding**	**30.0**	**379.63**
301-011	**Fuel Cladding**	**30.0**	**383.86**
301-012	**Fuel Cladding**	**30.0**	**386.34**
301-013	**Fuel Cladding**	**30.0**	**387.77**
301-014	**Fuel Cladding**	**30.0**	**388.34**
301-015	**Fuel Cladding**	**30.0**	**388.01**
301-016	**Fuel Cladding**	**30.0**	**387.11**
301-017	**Fuel Cladding**	**30.0**	**385.58**
301-018	**Fuel Cladding**	**30.0**	**383.46**
301-019	**Fuel Cladding**	**30.0**	**380.69**
301-020	**Fuel Cladding**	**30.0**	**377.48**
301-021	**Fuel Cladding**	**30.0**	**373.91**

Table CLSt2-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	**Fuel Cladding**	**30.0**	**370.3**
301-023	**Fuel Cladding**	**29.9**	**365.97**
301-024	**Fuel Cladding**	**29.9**	**361.72**
301-025	**Fuel Cladding**	**29.9**	**358.21**
301-026	**Fuel Cladding**	**29.9**	**356.75**
301-027	**Fuel Cladding**	**29.9**	**357.11**
301-028	**Fuel Cladding**	**29.8**	**334.69**

Table CLSt2-2: CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

Table CLSt2-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	361.39	625.17	0.10984	0
1001-002	3-lp HL	105-010000	0	SS-316	361.24	625.15	0.28170	0
1001-003	3-lp HL	110-010000	0	SS-316	479.08	625.22	0.00209	0
1001-004	3-lp HL	115-010000	0	SS-316	358.27	625.16	0.01971	0
1081-001	1-lp sg ch	220-010000	0	SS-316	532.98	625.76	0.00364	0
1081-002	1-lp sg ch	230-010000	0	SS-316	524.2	564.86	0.00652	0
1082-001	3-lp sg ch	120-010000	0	SS-316	380.05	625.76	0.33362	0
1082-002	3-lp sg ch	130-010000	0	SS-316	557.2	564.85	0.00167	0
1091-001	1-lp sg ch	221-010000	0	alloy690	331.01	346.47	0.93602	0
1091-002	1-lp sg ch	229-010000	0	alloy690	440.53	444.37	0.04116	0
1092-001	3-lp sg ch	121-010000	0	alloy690	528.8	531.81	0.00468	0
1092-002	3-lp sg ch	129-010000	0	alloy690	527.67	530.17	0.01076	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	518.75	519.72	0.00473	0.09630
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	518.26	519.19	0.00498	0.09664
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	520.06	520.97	0.00524	0.09692
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	522.49	523.41	0.00553	0.09719
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	525.07	525.98	0.00592	0.09758
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	527.15	528	0.00646	0.09815
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	523.48	524.19	0.00710	0.09899
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	506.69	507.29	0.00777	0.07278
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	515.06	515.8	0.00833	0.07823
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	518.23	519	0.00888	0.07909
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	502.75	503.33	0.00945	0.08556
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	493.98	494.49	0.00995	0.11575
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	481.22	481.66	0.01043	0.15914
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	471.89	472.29	0.01080	0.18346
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	463.47	463.86	0.01107	0.18358
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	456.9	457.3	0.01123	0.18364
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	453.52	453.93	0.01128	0.18371
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	451.92	452.34	0.01129	0.18377
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	450.73	451.16	0.01128	0.18384

Table CLSt2-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	449.97	450.41	0.01124	0.18390
1401-001	3-lp CL	135-010000	0	SS-316	523.08	564.66	0.01013	0
1401-002	3-lp CL	140-010000	0	SS-316	522.76	564.66	0.01002	0
1401-003	3-lp CL	145-010000	0	SS-316	521.69	564.66	0.00982	0
1401-004	3-lp CL	150-010000	0	SS-316	521.14	564.65	0.00950	0
1401-005	3-lp CL	155-010000	0	SS-316	520.89	564.65	0.00927	0
1401-006	3-lp CL	160-010000	0	SS-316	522.5	565.03	0.00790	0
1701-001	3-lp CLd	165-010000	0	SS-316	518.35	565.33	0.00860	0
1701-002	3-lp CLd	170-010000	0	SS-316	518.72	565.33	0.00905	0
1701-003	3-lp CLd	175-010000	0	SS-316	476.05	565.29	0.00977	0
1701-004	3-lp CLd	180-010000	0	SS-316	484.33	565.32	0.05650	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	366.79	562.19	0.24861	0.00167
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	382.59	503.79	0.01701	0.00657
2001-001	1-lp HL	200-010000	0	SS-316	424.05	625.41	0.29934	0
2001-002	1-lp HL	205-010000	0	SS-316	468.87	625.4	0.13044	0
2001-003	1-lp HL	210-010000	0	SS-316	475.3	625.39	0.09390	0
2001-004	1-lp HL	215-010000	0	SS-316	494.46	625.38	0.04992	0
2251-001	sngl tube	225-010000	630-010000	alloy690	329.74	336.78	0.99416	0.11300
2251-002	sngl tube	225-020000	630-020000	alloy690	329.21	336.33	1.03910	0.11324
2251-003	sngl tube	225-030000	630-030000	alloy690	328.67	335.87	1.08270	0.11347
2251-004	sngl tube	225-040000	630-040000	alloy690	328.14	335.42	1.12090	0.11373
2251-005	sngl tube	225-050000	630-050000	alloy690	327.5	334.89	1.16110	0.11410
2251-006	sngl tube	225-060000	630-060000	alloy690	326.59	334.24	1.22540	0.11499
2251-007	sngl tube	225-070000	630-070000	alloy690	325.62	333.86	1.31010	0.11698
2251-008	sngl tube	225-080000	632-010000	alloy690	324.84	334.38	1.39100	0.12114
2251-009	sngl tube	225-090000	634-010000	alloy690	324.45	336.48	1.47300	0.12825
2251-010	sngl tube	225-100000	636-010000	alloy690	324.94	341.74	1.55390	0.13927
2251-011	sngl tube	225-110000	637-010000	alloy690	322.51	337.88	1.61330	0.16465
2251-012	sngl tube	225-120000	635-010000	alloy690	410.35	413.48	0.03846	0.18668
2251-013	sngl tube	225-130000	633-010000	alloy690	418.05	420.51	0.03901	0.18587
2251-014	sngl tube	225-140000	631-070000	alloy690	424.94	427.16	0.03943	0.17659

Table CLSt2-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	427.79	429.77	0.03986	0.17735
2251-016	sngl tube	225-160000	631-050000	alloy690	429.63	431.56	0.04025	0.17797
2251-017	sngl tube	225-170000	631-040000	alloy690	431.25	433.22	0.04059	0.17842
2251-018	sngl tube	225-180000	631-030000	alloy690	432.97	434.93	0.04080	0.17881
2251-019	sngl tube	225-190000	631-020000	alloy690	435.01	436.97	0.04094	0.17922
2251-020	sngl tube	225-200000	631-010000	alloy690	437.03	439.06	0.04108	0.17960
2401-001	1-lp CL suc	235-010000	0	SS-316	425.73	564.45	0.04069	0
2401-002	1-lp CL suc	240-010000	0	SS-316	418.31	564.4	0.04028	0
2401-003	1-lp CL suc	245-010000	0	SS-316	411.67	564.35	0.03976	0
2401-004	1-lp CL suc	250-010000	0	SS-316	397.78	564.22	0.03796	0
2401-005	1-lp CL suc	255-010000	0	SS-316	469.7	564.54	0.01551	0
2401-006	1-lp CL suc	260-010000	0	SS-316	464.37	564.81	0.01685	0
2701-001	1-lp CL dis	265-010000	0	SS-316	473.37	565.5	0.01839	0
2701-002	1-lp CL dis	270-010000	0	SS-316	467.05	565.5	0.01841	0
2701-003	1-lp CL dis	275-010000	0	SS-316	452.12	565.5	0.01862	0
2701-004	1-lp CL dis	280-010000	0	SS-316	470.48	565.5	0.01706	0
101-001	RPV head	94-010000	0	alloy600	553.85	565.61	0.00173	0
101-002	RPV head	90-010000	0	SA-508	356.04	565.32	0.90008	0
102-001	RPV head flange	90-010000	0	alloy600	355.92	565.32	0.89487	0
103-001	RPV nozzle	10-010000	0	alloy600	324.66	565.56	1.10300	0
103-002	RPV nozzle	12-010000	0	alloy600	324.33	565.54	0.65394	0
104-001	RPV int shell	12-010000	0	alloy600	324.51	565.54	0.66288	0
104-002	RPV int shell	14-010000	0	alloy600	322.66	565.57	0.17976	0
104-003	RPV int shell	16-010000	0	alloy600	320.27	565.58	0.08750	0
105-001	RPV lower shell	16-010000	0	alloy600	318.57	565.58	0.08713	0
105-002	RPV lower shell	18-010000	0	alloy600	321.99	565.59	0.08656	0
106-001	RPV lower hd	18-010000	0	alloy600	318.92	565.55	0.08593	0
106-002	RPV lower hd	20-010000	0	SA-508	350.68	565.57	1.04360	0
201-001	core barrel	10-010000	86-010000	SS-316	315.2	570.6	0.66225	0.00118
201-002	core barrel	12-010000	84-010000	SS-316	309.82	551.87	0.25622	0.00295
201-003	core barrel	14-010000	80-040000	SS-316	282.64	348.31	0.07963	0.01659

Table CLSt2-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	282.62	350.05	0.07963	0.11586
201-005	core barrel	16-010000	80-020000	SS-316	275.71	342.21	0.07695	0.91475
201-006	core barrel	16-010000	80-010000	SS-316	275.7	324.25	0.07695	0.31001
202-001	low sup plate	22-010000	0	SS-316	318.13	528.2	0.09467	0
203-001	fl dis dvce	22-010000	0	SS-316	245.19	273.28	0.09467	0
204-001	HR	24-010000	80-010000	SS-316	284.89	324.58	0.23215	0.31001
204-002	HR	26-010000	80-010000	SS-316	297.85	324.61	0.24229	0.31001
204-003	HR	28-010000	80-010000	SS-316	310.67	324.68	0.25117	0.31001
204-004	HR	30-010000	80-010000	SS-316	322.58	324.74	0.25836	0.31001
204-005	HR	32-010000	80-010000	SS-316	332.91	324.81	0.61696	0.31001
204-006	HR	34-010000	80-010000	SS-316	336.31	324.9	0.83371	0.31001
204-007	HR	36-010000	80-020000	SS-316	338.22	342.46	0.96519	0.92694
204-008	HR	38-010000	80-020000	SS-316	339.49	342.5	1.05320	0.92876
204-009	HR	40-010000	80-020000	SS-316	340.51	342.54	1.00170	0.93097
204-010	HR	42-010000	80-020000	SS-316	341.24	342.6	0.95248	0.93357
204-011	HR	44-010000	80-020000	SS-316	341.66	342.65	0.95052	0.93612
204-012	HR	46-010000	80-020000	SS-316	341.88	342.71	0.94916	0.93894
204-013	HR	48-010000	80-020000	SS-316	342.02	342.77	0.95510	0.94210
204-014	HR	50-010000	80-030000	SS-316	342.15	350.87	0.96016	0.11164
204-015	HR	52-010000	80-030000	SS-316	342.26	350.93	0.96344	0.11132
204-016	HR	54-010000	80-030000	SS-316	343.38	350.99	0.61994	0.11104
204-017	HR	56-010000	80-030000	SS-316	342.81	351.04	0.98247	0.11077
204-018	HR	58-010000	80-030000	SS-316	342.51	351.1	0.97156	0.11051
204-019	HR	60-010000	80-030000	SS-316	343.92	351.16	0.52580	0.11020
204-020	HR	62-010000	80-040000	SS-316	384.42	349.51	0.04076	0.01535
204-021	HR	64-010000	80-040000	SS-316	359.73	349.56	0.12527	0.01531
204-022	HR	66-010000	80-040000	SS-316	358.69	349.63	0.13659	0.01524
204-023	HR	68-010000	80-040000	SS-316	365.05	349.69	0.09942	0.01519
204-024	HR	70-010000	80-040000	SS-316	367.13	349.72	0.11598	0.01515
204-025	HR	72-010000	80-040000	SS-316	368.75	349.74	0.09597	0.01514
204-026	HR	74-010000	80-040000	SS-316	342.78	349.75	0.98687	0.01513
204-027	HR	76-010000	80-040000	SS-316	342.51	349.75	0.97654	0.01512

Table CLSt2-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	414.97	349.71	0.01232	0.01517
205-001	UPR core plt	84-010000	0	SS-316	526.94	557.15	0.00294	0
206-001	LMP	84-010000	0	SS-316	508.21	514.19	0.00294	0
206-002	LMP	86-010000	0	SS-316	540.1	541.49	0.00115	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	571.59	411.4	0.00118	0.72832
208-001	CRGA	84-010000	0	SS-316	478	482.63	0.00411	0
208-002	CRGA	86-010000	0	SS-316	523.14	524.16	0.00113	0
208-003	CRGA	92-010000	0	SS-316	351.88	365.14	0.17688	0
4001-001	pzr srg	400-010000	0	SA-508	555.04	609.19	0.01207	0
4101-001	pzr srg	410-010000	0	SA-508	626.37	646.64	0.00107	0
4101-002	pzr srg	410-020000	0	SA-508	635.67	651.9	0.00108	0
4101-003	pzr srg	410-030000	0	SA-508	640.97	653.51	0.00109	0
4101-004	pzr srg	410-040000	0	SA-508	645.99	655.06	0.00110	0
4101-005	pzr srg	410-050000	0	SA-508	650	655.04	0.00110	0
4101-006	pzr srg	410-060000	0	SA-508	649.98	655.02	0.00110	0
4201-001	prz hd	408-010000	0	SA-508	614.98	643.25	0.00095	0
4301-001	prz upr hd	412-010000	0	SA-508	650.9	656.21	0.00110	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLSt2-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		210.34		0.23215
301-002	Fuel Cladding	0	26-010000	cladding		235.05		0.24229
301-003	Fuel Cladding	0	28-010000	cladding		256.28		0.25117
301-004	Fuel Cladding	0	30-010000	cladding		275.79		0.25836
301-005	Fuel Cladding	0	32-010000	cladding		292.99		0.26459
301-006	Fuel Cladding	0	34-010000	cladding		308.74		0.26989
301-007	Fuel Cladding	0	36-010000	cladding		322.73		0.27398
301-008	Fuel Cladding	0	38-010000	cladding		333.1		0.28275
301-009	Fuel Cladding	0	40-010000	cladding		337.45		0.22120
301-010	Fuel Cladding	0	42-010000	cladding		339.29		0.11350
301-011	Fuel Cladding	0	44-010000	cladding		340.51		0.12662
301-012	Fuel Cladding	0	46-010000	cladding		341.07		0.15346
301-013	Fuel Cladding	0	48-010000	cladding		341.46		0.16895
301-014	Fuel Cladding	0	50-010000	cladding		341.62		0.17649
301-015	Fuel Cladding	0	52-010000	cladding		341.56		0.18419

Table CLSt2-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		341.44		0.17484
301-017	Fuel Cladding	0	56-010000	cladding		340.96		0.17143
301-018	Fuel Cladding	0	58-010000	cladding		340.55		0.16645
301-019	Fuel Cladding	0	60-010000	cladding		340.17		0.14200
301-020	Fuel Cladding	0	62-010000	cladding		339.2		0.13678
301-021	Fuel Cladding	0	64-010000	cladding		338.26		0.12988
301-022	Fuel Cladding	0	66-010000	cladding		337.23		0.10797
301-023	Fuel Cladding	0	68-010000	cladding		336.04		0.06203
301-024	Fuel Cladding	0	70-010000	cladding		334.95		0.05084
301-025	Fuel Cladding	0	72-010000	cladding		334.14		0.05615
301-026	Fuel Cladding	0	74-010000	cladding		333.45		0.05934
301-027	Fuel Cladding	0	76-010000	cladding		332.69		0.03992
301-028	Fuel Cladding	0	78-010000	cladding		329.8		0.03844

Table CLSt2-3: CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 50.5 seconds)

Table CLSt2-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.962	326.5	326.3
105-010000	112.108	0.950	326.8	326
110-010000	90.692	0.989	326.8	333.2
115-010000	99.530	0.991	326.4	328.4
117-010000	34.487	0.952	326.6	326.4
120-010000	605.616	0.807	327.2	326.8
121-010000	90.006	0.983	326.6	352.5
125-010000	104.546	0.987	326.7	373.7
125-020000	104.546	0.994	326.6	394.3
125-030000	104.546	0.997	326.6	407
125-040000	104.546	0.997	326.5	412.6
125-050000	156.828	0.997	326.5	417.3
125-060000	209.092	0.998	326.5	423.8
125-070000	209.092	0.998	326.5	427.8
125-080000	209.092	0.998	326.4	425.1
125-090000	209.092	0.998	326.4	428
125-100000	182.764	0.998	326.4	431.3
125-110000	182.764	0.998	326.4	429.3
125-120000	209.092	0.999	326.3	427.1
125-130000	209.092	0.999	326.3	423.5
125-140000	209.092	0.999	326.3	420.3
125-150000	209.092	0.999	326.2	417.3
125-160000	156.828	0.999	326.2	415.1
125-170000	104.546	0.999	326.2	413.8
125-180000	104.546	0.999	326.2	413
125-190000	104.546	0.999	326.2	412.8
125-200000	104.546	0.999	326.2	412.8
129-010000	90.006	0.999	326.2	431.5
130-010000	605.616	0.999	326.3	387.1
132-010000	34.487	1.000	326.2	383.4
135-010000	51.857	1.000	326.3	382
140-010000	61.586	1.000	326.5	380.6

Table CLSt2-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	326.8	377.8
150-010000	102.591	1.000	325.9	382.2
155-010000	108.946	1.000	327.3	380.6
160-010000	413.100	1.000	327.8	388.1
165-010000	105.120	1.000	325.7	394.2
170-010000	105.120	1.000	325.9	400.1
175-010000	135.835	0.993	162.9	403.4
180-010000	116.691	0.991	218.8	403.2
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.979	325.7	325.9
205-010000	37.369	0.981	325.5	326.4
210-010000	30.231	0.989	325.4	326.9
215-010000	33.177	0.989	324.9	325.6
217-010000	11.496	0.994	324.5	324.4
220-010000	201.872	0.971	325	325
221-010000	30.002	0.983	324.8	324.8
225-010000	34.849	0.986	324.4	324.4
225-020000	34.849	0.987	324.1	324.1
225-030000	34.849	0.989	323.7	323.7
225-040000	34.849	0.991	323.3	323.3
225-050000	52.276	0.993	322.8	322.7
225-060000	69.697	0.995	322	322.2
225-070000	69.697	0.996	321	321.3
225-080000	69.697	0.997	319.8	320.4
225-090000	69.697	0.998	318.5	319.4
225-100000	60.921	0.999	317.1	318.1
225-110000	60.921	0.999	315.6	317
225-120000	69.697	0.999	313.9	350.2
225-130000	69.697	0.999	311.9	369
225-140000	69.697	0.999	309.7	381.7
225-150000	69.697	0.999	307.3	389.5

Table CLSt2-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	0.999	305.1	393
225-170000	34.849	0.999	303.4	394.7
225-180000	34.849	0.999	302	397
225-190000	34.849	0.999	300.5	399.3
225-200000	34.849	1.000	298.9	400.4
229-010000	30.002	1.000	297.4	405.4
230-010000	201.872	0.999	297.3	389.1
232-010000	11.496	1.000	281.2	302.6
235-010000	17.286	1.000	275.1	285.8
240-010000	20.529	1.000	269.1	269.8
245-010000	38.892	1.000	264.3	263.7
250-010000	34.197	1.000	252	250.9
255-010000	36.315	0.717	244.4	266.1
260-010000	137.700	0.000	219.9	288.7
265-010000	35.040	0.000	220	305.3
270-010000	35.040	0.000	219.8	304.4
275-010000	45.278	0.000	219.7	303.7
280-010000	38.897	0.005	223.3	298.9
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.336	237.1	307.3
12-010000	184.160	0.319	204.6	313.8
14-010000	366.488	0.000	163.4	318.3
16-010000	414.895	0.000	158	324
18-010000	120.792	0.000	153.3	327.5
20-010000	212.629	0.000	148.3	328.4
22-010000	315.096	0.000	184.8	327.5
24-010000	45.438	0.000	211	327.1
26-010000	48.504	0.000	231.7	327
28-010000	48.504	0.000	251.1	326.9
30-010000	35.789	0.000	268.8	326.8

Table CLSt2-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
32-010000	35.789	0.000	285	326.7
34-010000	35.789	0.000	299.6	326.6
36-010000	35.789	0.000	312.3	326.6
38-010000	35.789	0.004	322.4	326.5
40-010000	35.789	0.358	325.9	326.5
42-010000	35.789	0.600	326.4	326.5
44-010000	35.789	0.742	326.4	326.5
46-010000	35.789	0.814	326.4	326.5
48-010000	35.789	0.862	326.4	326.5
50-010000	35.789	0.892	326.4	326.5
52-010000	35.789	0.903	326.4	326.5
54-010000	33.109	0.925	326.4	326.5
56-010000	33.109	0.919	326.4	326.5
58-010000	33.109	0.909	326.4	326.5
60-010000	33.109	0.925	326.4	326.5
62-010000	33.109	0.915	326.4	326.5
64-010000	33.109	0.907	326.3	326.5
66-010000	33.109	0.901	326.3	326.5
68-010000	33.109	0.898	326.3	326.5
70-010000	33.109	0.877	326.3	326.5
72-010000	21.064	0.886	326.3	326.5
74-010000	21.064	0.874	326.3	326.4
76-010000	21.051	0.915	326.3	326.4
78-010000	86.638	0.947	326.3	326.5
80-010000	5.964	0.000	282.4	326.4
80-020000	4.483	0.853	324	326.6
80-030000	4.951	0.964	325.8	330.1
80-040000	5.894	0.990	326.2	334.1
82-010000	28.768	0.000	266.7	327.7
82-020000	21.625	0.001	310.8	327.1
82-030000	23.882	0.569	326.9	326.7
82-040000	28.430	0.934	326.5	326.5
84-010000	573.893	0.947	326.3	326.7

Table CLSt2-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
86-010000	276.840	0.991	326.3	327.6
88-010000	202.853	0.999	330	329.9
88-020000	83.659	1.000	330	329.9
88-030000	182.966	0.993	330	330
90-010000	120.233	0.350	334.3	348.4
92-010000	505.835	0.667	333.9	352.5
94-010000	267.973	0.967	333.2	336.1
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	0.997	327.7	382.1
408-010000	161.115	0.999	328.5	328.4
410-010000	395.598	1.000	328.5	328.4
410-020000	395.598	1.000	328.5	328.4
410-030000	395.598	1.000	328.5	328.4
410-040000	395.598	1.000	328.5	328.4
410-050000	395.598	1.000	328.5	328.4
410-060000	395.598	1.000	328.5	328.3
412-010000	161.115	1.000	328.5	328.4

Table CLSt2-4: CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 50.5 seconds)

Table CLSt2-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.2	557.85
1552-001	sg sep	63.0	547.16
1601-001	sg sep	63.6	585.91
1621-001	sg sep	63.3	565.1
1641-001	sg sep	63.6	588.06
1641-002	sg sep	63.7	594.84
1801-001	1-lp sg sh	65.2	555.06
1801-002	1-lp sg sh	65.2	552.43
1801-003	1-lp sg sh	65.1	547.89
1802-001	1-lp sg sh	65.3	558.29
1803-001	1-lp sg sh	65.4	562.74
1803-002	1-lp sg sh	65.3	559.12
1803-003	1-lp sg sh	65.4	559.64
1803-004	1-lp sg sh	65.4	563.07
1803-005	1-lp sg sh	65.4	562.98
1804-001	1-lp sg sh	65.4	563.13
1806-001	1-lp sg sh	65.1	550.23
1807-001	1-lp sg sh	61.8	463.74
1807-002	1-lp sg sh	61.7	459.36
1808-001	1-lp sg sh	62.2	488.59
1808-002	1-lp sg sh	62.2	488.36
1808-003	1-lp sg sh	62.2	488.3
1808-004	1-lp sg sh	62.2	488.39
1808-005	1-lp sg sh	62.2	488.81
1808-006	1-lp sg sh	62.2	489.57
1808-007	1-lp sg sh	62.2	491.43
1808-008	1-lp sg sh	62.3	496.23
1808-009	1-lp sg sh	62.4	504.54
1808-010	1-lp sg sh	61.9	471.07
1808-011	1-lp sg sh	61.9	474.33
1808-012	1-lp sg sh	62.0	477.29
1808-013	1-lp sg sh	62.0	481.12

Table CLSt2-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	62.1	485.92
1808-015	1-lp sg sh	62.2	489.2
1808-016	1-lp sg sh	62.2	490.45
1808-017	1-lp sg sh	62.2	493.8
1808-018	1-lp sg sh	62.2	489.85
6241-001	DC sleeve	61.5	448.41
6241-002	DC sleeve	61.8	465.17
6241-003	DC sleeve	61.9	474.89
6241-004	DC sleeve	62.3	496.31
6301-001	hot DC	61.5	446.91
6301-002	hot DC	61.5	446.74
6301-003	hot DC	61.5	446.64
6301-004	hot DC	61.5	446.63
6301-005	hot DC	61.8	467.11
6301-006	hot DC	61.8	467.39
6301-007	hot DC	61.8	468.06
6301-008	hot DC	62.1	481.91
6301-009	hot DC	62.1	485.84
6301-010	hot DC	62.4	504.91
6301-011	hot DC	62.9	539.72
6311-001	cold DC	61.6	451.4
6311-002	cold DC	61.6	450.86
6311-003	cold DC	61.6	450.47
6311-004	cold DC	61.6	450.2
6311-005	cold DC	61.5	449.46
6311-006	cold DC	61.5	449.48
6311-007	cold DC	61.5	449.49
6311-008	cold DC	61.5	447.67
6311-009	cold DC	61.5	447.01
6311-010	cold DC	61.5	444.95
6311-011	cold DC	62.1	483.13

Table CLSt2-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1543-001	sg sep	63.2	561.34
1553-001	sg sep	63.2	557.3
1602-001	sg sep	63.6	586.55
1622-001	sg sep	63.3	566.92
1642-001	sg sep	63.6	586.02
1642-002	sg sep	63.9	606.48
1901-001	3-lp sg sh	65.3	558.88
1901-002	3-lp sg sh	65.3	558.52
1901-003	3-lp sg sh	65.3	557.93
1902-001	3-lp sg sh	65.3	559.11
1903-001	3-lp sg sh	65.5	563.66
1903-002	3-lp sg sh	65.3	559.31
1903-003	3-lp sg sh	65.4	559.83
1903-004	3-lp sg sh	65.5	564.34
1903-005	3-lp sg sh	65.5	564.22
1904-001	3-lp sg sh	65.5	564.45
1906-001	3-lp sg sh	65.4	561.62
1907-001	3-lp sg sh	63.0	544.25
1907-002	3-lp sg sh	61.8	464.21
1908-001	3-lp sg sh	63.0	547.16
1908-002	3-lp sg sh	63.0	547.37
1908-003	3-lp sg sh	63.1	548.29
1908-004	3-lp sg sh	63.1	550.14
1908-005	3-lp sg sh	63.1	552.48
1908-006	3-lp sg sh	63.1	552.98
1908-007	3-lp sg sh	63.0	547.3
1908-008	3-lp sg sh	63.1	549.99
1908-009	3-lp sg sh	63.1	550.24
1908-010	3-lp sg sh	62.0	477.77
1908-011	3-lp sg sh	62.1	483.75
1908-012	3-lp sg sh	62.2	489.45
1908-013	3-lp sg sh	62.3	497.43
1908-014	3-lp sg sh	62.5	507.86

Table CLSt2-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-015	3-lp sg sh	62.6	516.8
1908-016	3-lp sg sh	62.7	525.77
1908-017	3-lp sg sh	62.9	536.51
1908-018	3-lp sg sh	63.0	542.74
7241-001	3-lp DC sleeve	62.2	491.11
7241-002	3-lp DC sleeve	62.2	492.92
7241-003	3-lp DC sleeve	62.2	492.74
7241-004	3-lp DC sleeve	62.4	505.29
7301-001	3-lp DC	63.0	545.92
7301-002	3-lp DC	63.0	544.64
7301-003	3-lp DC	63.0	544.76
7301-004	3-lp DC	63.0	545.44
7301-005	3-lp DC	63.1	549.42
7301-006	3-lp DC	63.1	551.06
7301-007	3-lp DC	63.1	551.18
7301-008	3-lp DC	63.0	547.05
7301-009	3-lp DC	63.1	549.35
7301-010	3-lp DC	63.1	550.24
7301-011	3-lp DC	63.2	558.84
7311-001	3-lp DC cold	61.6	454.73
7311-002	3-lp DC cold	61.6	455.54
7311-003	3-lp DC cold	61.7	456.54
7311-004	3-lp DC cold	61.7	457.74
7311-005	3-lp DC cold	61.7	459.24
7311-006	3-lp DC cold	61.8	462.87
7311-007	3-lp DC cold	61.8	466.87
7311-008	3-lp DC cold	61.9	469.54
7311-009	3-lp DC cold	61.9	473.06
7311-010	3-lp DC cold	62.1	484.9
7311-011	3-lp DC cold	62.3	495.88

Table CLSt2-5: CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 50.5 seconds)

Table CLSt2-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	**556.74**	**558.63**	**0.06450**	**0.05204**
1552-001	sg sep	640-010000	623-010000	SS-316	544.75	548.89	0.07762	0.06559
1601-001	sg sep	642-010000	645-010000	SS-316	583.94	589.64	0.15815	0.24146
1621-001	sg sep	660-010000	660-010000	SS-316	582.56	582.56	0.24344	0.24344
1641-001	sg sep	645-010000	642-010000	SS-316	590.19	586.16	0.24608	0.16515
1641-002	sg sep	650-010000	650-010000	SS-316	595.32	595.35	0.47686	0.47991
1801-001	1-lp sg sh	625-020000	0	SA-508	533.06	558.81	0.13719	0
1801-002	1-lp sg sh	625-030000	0	SA-508	517.76	558.58	0.13669	0
1801-003	1-lp sg sh	625-040000	0	SA-508	491.52	558.41	0.13522	0
1802-001	1-lp sg sh	625-010000	0	SA-508	553.59	558.97	0.10757	0
1803-001	1-lp sg sh	645-010000	0	SA-508	581.32	558.95	0.19940	0
1803-002	1-lp sg sh	623-010000	0	SA-508	559.11	559.09	0.06716	0
1803-003	1-lp sg sh	639-010000	0	SA-508	562.02	559.09	0.02854	0
1803-004	1-lp sg sh	650-010000	0	SA-508	584.33	558.7	0.26384	0
1803-005	1-lp sg sh	660-010000	0	SA-508	583.86	558.69	0.24952	0
1804-001	1-lp sg sh	670-010000	0	SA-508	585.03	558.64	0.28903	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	538.56	550.05	0.08589	0.08602
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	443.82	443.82	0.09443	0.09443
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	455.16	455.16	0.13653	0.13653
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	456.91	456.91	0.09857	0.09857
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	456.76	456.76	0.09855	0.09855
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	456.76	456.76	0.09857	0.09857
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	456.9	456.9	0.09862	0.09862
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	457.47	457.47	0.09869	0.09869
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	458.69	458.69	0.09863	0.09863
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	461.71	461.71	0.09833	0.09833
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	468.55	468.55	0.09783	0.09783
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	481.37	481.37	0.09616	0.09616
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	459.66	459.66	0.13624	0.13624
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	460.75	460.75	0.13593	0.13593
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	461.87	461.87	0.13563	0.13563

Table CLSt2-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	463.52	463.52	0.13529	0.13529
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	465.91	465.91	0.13481	0.13481
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	467.55	467.55	0.13424	0.13424
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	466.68	466.68	0.14130	0.14130
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	468.19	468.19	0.14191	0.14191
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	459.87	459.87	0.12517	0.12517
6241-001	DC sleeve	624-040000	625-040000	SS-316	451.12	434.62	0.41061	0.13522
6241-002	DC sleeve	624-030000	625-030000	SS-316	454.69	465.52	0.41057	0.13669
6241-003	DC sleeve	624-020000	625-020000	SS-316	456.17	485.25	0.41047	0.13719
6241-004	DC sleeve	624-010000	625-010000	SS-316	475.44	512.19	0.11971	0.08178
6301-001	hot DC	630-010000	625-040000	SS-316	431.94	438.65	0.09016	0.13522
6301-002	hot DC	630-020000	625-040000	SS-316	431.77	438.53	0.09013	0.13522
6301-003	hot DC	630-030000	625-040000	SS-316	431.66	438.47	0.09014	0.13522
6301-004	hot DC	630-040000	625-040000	SS-316	431.64	438.46	0.09016	0.13522
6301-005	hot DC	630-050000	625-030000	SS-316	441.75	470.9	0.09383	0.13669
6301-006	hot DC	630-060000	625-030000	SS-316	442.15	471.05	0.09385	0.13669
6301-007	hot DC	630-070000	625-030000	SS-316	443.36	471.31	0.09373	0.13669
6301-008	hot DC	632-010000	625-020000	SS-316	452.03	492.82	0.09522	0.13719
6301-009	hot DC	634-010000	625-020000	SS-316	458.89	494.52	0.09454	0.13719
6301-010	hot DC	636-010000	625-010000	SS-316	476.57	520.65	0.09436	0.05610
6301-011	hot DC	638-010000	625-010000	SS-316	528.91	541.1	0.07976	0.08446
6311-001	cold DC	631-010000	624-040000	SS-316	450.21	450.4	0.13653	0.41061
6311-002	cold DC	631-020000	624-040000	SS-316	448.93	450.31	0.13624	0.41061
6311-003	cold DC	631-030000	624-040000	SS-316	447.9	450.27	0.13593	0.41061
6311-004	cold DC	631-040000	624-040000	SS-316	447.1	450.24	0.13563	0.41061
6311-005	cold DC	631-050000	624-030000	SS-316	445.98	449.74	0.13529	0.41057
6311-006	cold DC	631-060000	624-030000	SS-316	445.48	449.82	0.13481	0.41057
6311-007	cold DC	631-070000	624-030000	SS-316	444.95	449.9	0.13424	0.41057
6311-008	cold DC	633-010000	624-020000	SS-316	441.3	448.99	0.14130	0.41047
6311-009	cold DC	635-010000	624-020000	SS-316	439.08	449	0.14191	0.41047
6311-010	cold DC	637-010000	624-010000	SS-316	427.69	451.18	0.12517	0.11971
6311-011	cold DC	638-010000	624-010000	SS-316	491.2	469.04	0.02409	0.11971

Table CLSt2-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	560.21	562.34	0.06061	0.06686
1553-001	sg sep	740-010000	723-010000	SS-316	556.18	558.29	0.06018	0.06698
1602-001	sg sep	742-010000	745-010000	SS-316	576.78	595.28	0.08405	0.19610
1622-001	sg sep	760-010000	760-010000	SS-316	589.39	589.39	0.21480	0.21480
1642-001	sg sep	745-010000	742-010000	SS-316	592.24	579.77	0.18664	0.08979
1642-002	sg sep	750-010000	750-010000	SS-316	606.84	606.87	0.40171	0.40284
1901-001	3-lp sg sh	725-020000	0	SA-508	558.78	558.81	0.14124	0
1901-002	3-lp sg sh	725-030000	0	SA-508	557.64	558.58	0.14175	0
1901-003	3-lp sg sh	725-040000	0	SA-508	554.46	558.42	0.14270	0
1902-001	3-lp sg sh	725-010000	0	SA-508	559.7	558.97	0.05484	0
1903-001	3-lp sg sh	745-010000	0	SA-508	586.64	558.95	0.17258	0
1903-002	3-lp sg sh	723-010000	0	SA-508	560.45	559.09	0.05355	0
1903-003	3-lp sg sh	739-010000	0	SA-508	563.34	559.08	0.06130	0
1903-004	3-lp sg sh	750-010000	0	SA-508	592.03	558.7	0.23708	0
1903-005	3-lp sg sh	760-010000	0	SA-508	591.39	558.69	0.22071	0
1904-001	3-lp sg sh	770-010000	0	SA-508	593.06	558.64	0.25584	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	559.1	560.04	0.06440	0.06964
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	541.48	541.48	0.07321	0.07321
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	460.09	460.09	0.13980	0.13980
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	542.23	542.23	0.07346	0.07346
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	542.54	542.54	0.07368	0.07368
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	543.76	543.76	0.07388	0.07388
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	545.97	545.97	0.07418	0.07418
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	548.66	548.66	0.07461	0.07461
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	548.77	548.77	0.07700	0.07700
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	540.19	540.19	0.08305	0.08305
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	544.24	544.24	0.07891	0.07891
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	544.98	544.98	0.07665	0.07665
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	467.17	467.17	0.13975	0.13975
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	471.29	471.29	0.13970	0.13970
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	475.51	475.51	0.13965	0.13965

Table CLSt2-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	482.15	482.15	0.13960	0.13960
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	491.79	491.79	0.13956	0.13956
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	501.23	501.23	0.13946	0.13946
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	512.4	512.4	0.12097	0.12097
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	526.87	526.87	0.08799	0.08799
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	534.87	534.87	0.08280	0.08280
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	461.6	517.46	0.41992	0.14270
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	461.1	523.32	0.41969	0.14175
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	459.96	524.92	0.41945	0.14124
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	478.64	530.98	0.12232	0.11708
7301-001	3-lp DC	730-010000	725-040000	SS-316	542.12	545.11	0.07321	0.14270
7301-002	3-lp DC	730-020000	725-040000	SS-316	540.71	544.34	0.07346	0.14270
7301-003	3-lp DC	730-030000	725-040000	SS-316	541.21	544.32	0.07368	0.14270
7301-004	3-lp DC	730-040000	725-040000	SS-316	542.43	544.61	0.07388	0.14270
7301-005	3-lp DC	730-050000	725-030000	SS-316	545.06	551.61	0.07418	0.14175
7301-006	3-lp DC	730-060000	725-030000	SS-316	546.99	552.55	0.07461	0.14175
7301-007	3-lp DC	730-070000	725-030000	SS-316	545.99	552.9	0.07525	0.14175
7301-008	3-lp DC	732-010000	725-020000	SS-316	537.24	553.06	0.08082	0.14124
7301-009	3-lp DC	734-010000	725-020000	SS-316	541.89	553.89	0.07679	0.14124
7301-010	3-lp DC	736-010000	725-010000	SS-316	543.45	554.64	0.07515	0.05901
7301-011	3-lp DC	738-010000	725-010000	SS-316	555.43	560.44	0.05936	0.05484
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	454.43	452.69	0.13980	0.41992
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	455.43	452.95	0.13975	0.41992
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	456.74	453.25	0.13970	0.41992
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	458.37	453.61	0.13965	0.41992
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	461.14	453.37	0.13960	0.41969
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	466.74	454.36	0.13956	0.41969
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	473.33	455.38	0.13946	0.41969
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	479.26	455	0.12097	0.41945
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	485.95	455.79	0.08799	0.41945
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	495.92	469.45	0.06504	0.12232
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	514.52	474.55	0.07577	0.12232

Table CLSt2-6: CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 50.5 seconds)

Table CLSt2-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	545.22	596.82
623-010000	366.645	0.000	553.85	596.82
624-010000	155.893	0.000	447.72	597.05
624-020000	43.006	0.000	448.28	597.33
624-030000	59.135	0.000	449.02	597.69
624-040000	43.006	0.000	449.44	598.04
625-010000	180.020	0.000	526.06	597.01
625-020000	73.345	0.000	482.72	597.3
625-030000	100.851	0.000	451.25	597.65
625-040000	73.345	0.000	406.14	598.02
630-010000	70.116	0.000	373.42	598.15
630-020000	70.116	0.000	373.31	598.07
630-030000	70.116	0.000	373.16	597.99
630-040000	70.116	0.000	373.07	597.91
630-050000	105.180	0.000	373.03	597.81
630-060000	140.232	0.000	373.51	597.66
630-070000	140.232	0.000	375.6	597.5
631-010000	70.116	0.000	446.79	598.11
631-020000	70.116	0.000	444.4	598.04
631-030000	70.116	0.000	442.31	597.96
631-040000	70.116	0.000	440.56	597.88
631-050000	105.180	0.000	438.68	597.79
631-060000	140.232	0.000	437.01	597.65
631-070000	140.232	0.000	435.26	597.5
632-010000	140.232	0.000	381.37	597.34
633-010000	140.232	0.000	428.85	597.34
634-010000	140.232	0.000	393.07	597.18
635-010000	140.232	0.000	424.6	597.18
636-010000	86.672	0.000	415.41	597.05
637-010000	86.672	0.000	394.84	597.06
638-010000	609.522	0.000	490.13	596.91
639-010000	635.282	0.000	561.4	596.71

Table CLSt2-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.000	526.67	596.75
641-010000	117.514	0.000	546.46	596.64
642-010000	320.019	0.416	559.24	617.52
645-010000	1075.296	0.772	563.74	619.45
650-010000	830.204	1.000	596.4	613.97
660-010000	703.676	1.000	596.45	609.05
670-010000	400.000	1.000	596.44	607.37
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	552.53	609.19
723-010000	1099.935	0.000	563.33	609.19
724-010000	467.679	0.000	448.33	609.4
724-020000	129.019	0.000	449.28	609.66
724-030000	177.404	0.000	450.54	609.99
724-040000	129.019	0.000	451.4	610.33
725-010000	540.019	0.000	559.84	609.37
725-020000	220.035	0.000	555.27	609.61
725-030000	302.553	0.000	550.38	609.91
725-040000	220.035	0.000	538.09	610.22
730-010000	210.349	0.000	526.88	610.33
730-020000	210.349	0.000	526.65	610.26
730-030000	210.349	0.000	528.53	610.2
730-040000	210.349	0.000	531.02	610.13
730-050000	315.541	0.000	533.23	610.05
730-060000	420.697	0.000	534.26	609.94
730-070000	420.697	0.000	528.38	609.81
731-010000	210.349	0.000	451.67	610.39
731-020000	210.349	0.000	452.33	610.32
731-030000	210.349	0.000	453.4	610.25
731-040000	210.349	0.000	454.9	610.18
731-050000	315.541	0.000	458.12	610.09
731-060000	420.697	0.000	464.49	609.96

Table CLSt2-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.000	472.81	609.82
732-010000	420.697	0.000	511.57	609.67
733-010000	420.697	0.000	482.3	609.68
734-010000	420.697	0.000	521.4	609.54
735-010000	420.697	0.000	496.01	609.55
736-010000	260.017	0.000	524.81	609.44
737-010000	260.017	0.000	506.34	609.44
738-010000	1828.567	0.000	542.14	609.31
739-010000	1905.846	0.000	567.44	609.09
740-010000	375.926	0.000	547.41	609.17
741-010000	352.543	0.000	551.49	609.07
742-010000	960.056	0.000	560.13	608.93
745-010000	3225.888	0.686	567.88	643.11
750-010000	2490.612	0.920	580.29	631.28
760-010000	2111.028	1.000	608.8	630.32
770-010000	1200.000	1.000	608.79	627.64

Table CLSt3-1: CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

Table CLSt3-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.3	562.46
1001-002	3-lp HL	63.3	564.19
1001-003	3-lp HL	63.6	587.94
1001-004	3-lp HL	63.3	563.88
1081-001	1-lp sg ch	63.9	607.5
1081-002	1-lp sg ch	63.2	556.68
1082-001	3-lp sg ch	63.6	588.79
1082-002	3-lp sg ch	63.3	563.36
1091-001	1-lp sg ch	58.8	286.04
1091-002	1-lp sg ch	61.3	425.39
1092-001	3-lp sg ch	62.9	512.96
1092-002	3-lp sg ch	63.0	517.96
1251-001	3-lp SG tube	62.7	505.39
1251-002	3-lp SG tube	62.7	504.73
1251-003	3-lp SG tube	62.7	501.81
1251-004	3-lp SG tube	62.6	497.01
1251-005	3-lp SG tube	62.5	490.76
1251-006	3-lp SG tube	62.3	479.73
1251-007	3-lp SG tube	62.0	464.21
1251-008	3-lp SG tube	61.8	452.22
1251-009	3-lp SG tube	61.9	456.5
1251-010	3-lp SG tube	61.9	459.02
1251-011	3-lp SG tube	61.8	454.72
1251-012	3-lp SG tube	61.7	447.28
1251-013	3-lp SG tube	61.7	446.81
1251-014	3-lp SG tube	61.7	447.44
1251-015	3-lp SG tube	61.7	448.25
1251-016	3-lp SG tube	61.7	449.26
1251-017	3-lp SG tube	61.8	450.55
1251-018	3-lp SG tube	61.8	452.15

Table CLSt3-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1251-019	3-lp SG tube	61.8	454.46
1251-020	3-lp SG tube	61.9	457.72
1401-001	3-lp CL	63.1	552.74
1401-002	3-lp CL	63.1	552.65
1401-003	3-lp CL	63.1	552.36
1401-004	3-lp CL	63.1	552.23
1401-005	3-lp CL	63.1	552.09
1401-006	3-lp CL	63.1	552.49
1701-001	3-lp CLd	63.0	543.05
1701-002	3-lp CLd	63.0	545.08
1701-003	3-lp CLd	62.6	518.68
1701-004	3-lp CLd	62.9	535.6
1905-001	3-lp sg sh	62.9	512.69
1805-001	1-lp sg sh	62.9	513.7
2001-001	1-lp HL	63.0	545.31
2001-002	1-lp HL	63.2	557.59
2001-003	1-lp HL	63.5	580.22
2001-004	1-lp HL	63.6	582.96
2251-001	sngl tube	58.5	270.37
2251-002	sngl tube	58.5	269.98
2251-003	sngl tube	58.6	275.61
2251-004	sngl tube	59.3	311.56
2251-005	sngl tube	59.5	323.87
2251-006	sngl tube	59.8	341.15
2251-007	sngl tube	60.1	360.2
2251-008	sngl tube	60.6	386.82
2251-009	sngl tube	60.9	400.3
2251-010	sngl tube	61.0	408.6
2251-011	sngl tube	60.9	404.23
2251-012	sngl tube	61.0	405.94
2251-013	sngl tube	60.9	404.96
2251-014	sngl tube	61.2	417.35

Table CLSt3-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-015	sngl tube	61.2	420.31
2251-016	sngl tube	61.3	422.89
2251-017	sngl tube	61.3	424.74
2251-018	sngl tube	61.3	426.12
2251-019	sngl tube	61.3	427.58
2251-020	sngl tube	61.4	429.06
2401-001	1-lp CL suc	62.7	522.48
2401-002	1-lp CL suc	62.6	520.34
2401-003	1-lp CL suc	62.6	518.55
2401-004	1-lp CL suc	62.6	514.66
2401-005	1-lp CL suc	62.6	515.65
2401-006	1-lp CL suc	62.7	526.28
2701-001	1-lp CL dis	62.3	495.93
2701-002	1-lp CL dis	62.2	491.54
2701-003	1-lp CL dis	62.3	494.61
2701-004	1-lp CL dis	62.4	502.95
101-001	RPV head	63.6	563.72
101-002	RPV head	64.7	532.68
102-001	RPV head flange	63.4	553.82
103-001	RPV nozzle	63.4	553.97
103-002	RPV nozzle	63.3	544.55
104-001	RPV int shell	63.1	534.21
104-002	RPV int shell	63.0	528.05
104-003	RPV int shell	63.0	528.3
105-001	RPV lower shell	63.0	525.95
105-002	RPV lower shell	63.0	526.25
106-001	RPV lower hd	62.7	505.83
106-002	RPV lower hd	64.0	508.38
201-001	core barrel	62.7	522.46
201-002	core barrel	62.2	489.95
201-003	core barrel	60.5	384.46
201-004	core barrel	60.5	384.31

Table CLSt3-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
201-005	core barrel	60.5	385.21
201-006	core barrel	60.4	380.53
202-001	low sup plate	60.1	361.83
203-001	fl dis dvce	57.6	226.96
204-001	HR	60.8	406.57
204-002	HR	60.9	407.86
204-003	HR	60.9	409.23
204-004	HR	60.9	410.44
204-005	HR	60.9	411.68
204-006	HR	61.0	413.05
204-007	HR	61.0	418.44
204-008	HR	61.1	420.17
204-009	HR	61.1	421.72
204-010	HR	61.1	423.18
204-011	HR	61.1	424.89
204-012	HR	61.2	427.74
204-013	HR	61.3	431.95
204-014	HR	61.3	435.59
204-015	HR	61.4	441.5
204-016	HR	61.5	446.28
204-017	HR	61.6	450.61
204-018	HR	61.6	453.99
204-019	HR	61.7	458.54
204-020	HR	62.1	484.04
204-021	HR	62.1	484.06
204-022	HR	62.1	485.67
204-023	HR	62.2	489.93
204-024	HR	62.2	490.89
204-025	HR	62.2	490.59
204-026	HR	62.1	487.74
204-027	HR	62.1	486.21
204-028	HR	62.2	492.85
205-001	UPR core plt	62.8	532.44

Table CLSt3-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
206-001	LMP	62.3	496.51
206-002	LMP	62.9	535.51
207-001	UPR sup plt	62.6	517.26
208-001	CRGA	61.8	462.68
208-002	CRGA	62.6	516.86
208-003	CRGA	58.6	277.24
4001-001	pzr srg	65.9	580.42
4101-001	pzr srg	67.5	642.95
4101-002	pzr srg	67.6	648.84
4101-003	pzr srg	67.7	651.08
4101-004	pzr srg	67.7	653.22
4101-005	pzr srg	67.7	653.92
4101-006	pzr srg	67.7	653.9
4201-001	prz hd	67.3	637.96
4301-001	prz upr hd	67.8	654.98
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	41.4	239.95
301-002	FUEL ASS	41.7	261.76
301-003	FUEL ASS	41.9	278.03
301-004	FUEL ASS	42.1	291.85
301-005	FUEL ASS	42.3	301.42
301-006	FUEL ASS	42.4	308.13
301-007	FUEL ASS	42.4	313.24
301-008	FUEL ASS	42.5	316.95
301-009	FUEL ASS	42.5	319.89
301-010	FUEL ASS	42.6	322.26
301-011	FUEL ASS	42.6	323.96
301-012	FUEL ASS	42.6	324.94
301-013	FUEL ASS	42.6	325.7

Table CLSt3-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-014	FUEL ASS	42.6	326.02
301-015	FUEL ASS	42.6	326.03
301-016	FUEL ASS	42.6	325.54
301-017	FUEL ASS	42.6	323.64
301-018	FUEL ASS	42.6	323.15
301-019	FUEL ASS	42.6	322.92
301-020	FUEL ASS	42.6	323.32
301-021	FUEL ASS	42.6	322.31
301-022	FUEL ASS	42.5	315.67
301-023	FUEL ASS	42.4	310.58
301-024	FUEL ASS	42.3	304.87
301-025	FUEL ASS	42.3	299.65
301-026	FUEL ASS	42.2	296.39
301-027	FUEL ASS	42.2	293.41
301-028	FUEL ASS	41.8	271
301-001	**Fuel Cladding**	**29.3**	**239.95**
301-002	**Fuel Cladding**	**29.4**	**261.76**
301-003	**Fuel Cladding**	**29.5**	**278.03**
301-004	**Fuel Cladding**	**29.6**	**291.85**
301-005	**Fuel Cladding**	**29.6**	**301.42**
301-006	**Fuel Cladding**	**29.7**	**308.13**
301-007	**Fuel Cladding**	**29.7**	**313.24**
301-008	**Fuel Cladding**	**29.7**	**316.95**
301-009	**Fuel Cladding**	**29.7**	**319.89**
301-010	**Fuel Cladding**	**29.7**	**322.26**
301-011	**Fuel Cladding**	**29.7**	**323.96**
301-012	**Fuel Cladding**	**29.7**	**324.94**
301-013	**Fuel Cladding**	**29.7**	**325.7**
301-014	**Fuel Cladding**	**29.7**	**326.02**
301-015	**Fuel Cladding**	**29.7**	**326.03**
301-016	**Fuel Cladding**	**29.7**	**325.54**
301-017	**Fuel Cladding**	**29.7**	**323.64**
301-018	**Fuel Cladding**	**29.7**	**323.15**

Table CLSt3-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-019	**Fuel Cladding**	**29.7**	**322.92**
301-020	**Fuel Cladding**	**29.7**	**323.32**
301-021	**Fuel Cladding**	**29.7**	**322.31**
301-022	**Fuel Cladding**	**29.7**	**315.67**
301-023	**Fuel Cladding**	**29.7**	**310.58**
301-024	**Fuel Cladding**	**29.6**	**304.87**
301-025	**Fuel Cladding**	**29.6**	**299.65**
301-026	**Fuel Cladding**	**29.6**	**296.39**
301-027	**Fuel Cladding**	**29.6**	**293.41**
301-028	**Fuel Cladding**	**29.5**	**271**

Table CLSt3-2: CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

Table CLSt3-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	443.52	616.98	0.01091	0
1001-002	3-lp HL	105-010000	0	SS-316	451.50	616.91	0.00586	0
1001-003	3-lp HL	110-010000	0	SS-316	521.64	619.60	0.00573	0
1001-004	3-lp HL	115-010000	0	SS-316	453.35	616.62	0.00544	0
1081-001	1-lp sg ch	220-010000	0	SS-316	543.94	625.64	0.00249	0
1081-002	1-lp sg ch	230-010000	0	SS-316	526.55	564.80	0.00275	0
1082-001	3-lp sg ch	120-010000	0	SS-316	460.98	625.59	0.00187	0
1082-002	3-lp sg ch	130-010000	0	SS-316	557.92	564.84	0.00085	0
1091-001	1-lp sg ch	221-010000	0	alloy690	285.46	286.20	0.01297	0
1091-002	1-lp sg ch	229-010000	0	alloy690	423.61	425.86	0.01613	0
1092-001	3-lp sg ch	121-010000	0	alloy690	511.00	513.37	0.00498	0
1092-002	3-lp sg ch	129-010000	0	alloy690	517.19	518.18	0.00544	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	504.88	505.77	0.00516	0.07452
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	504.28	505.05	0.00531	0.06926
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	501.41	502.08	0.00545	0.06423
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	496.66	497.24	0.00558	0.05945
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	490.47	490.94	0.00570	0.05478
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	479.50	479.87	0.00585	0.05438
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	464.05	464.32	0.00598	0.05441
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	452.09	452.32	0.00604	0.05901
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	456.40	456.60	0.00628	0.05976
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	458.93	459.11	0.00612	0.06126
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	454.61	454.86	0.00602	0.07043
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	447.24	447.34	0.00594	0.06051
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	446.78	446.86	0.00586	0.05885
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	447.41	447.49	0.00578	0.05775
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	448.22	448.30	0.00571	0.05665
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	449.23	449.30	0.00564	0.05624
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	450.52	450.60	0.00559	0.05679
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	452.12	452.20	0.00555	0.05715
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	454.42	454.52	0.00551	0.05799

Table CLSt3-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	457.67	457.78	0.00548	0.05928
1401-001	3-lp CL	135-010000	0	SS-316	530.78	562.99	0.00564	0
1401-002	3-lp CL	140-010000	0	SS-316	530.53	562.98	0.00563	0
1401-003	3-lp CL	145-010000	0	SS-316	529.78	562.94	0.00563	0
1401-004	3-lp CL	150-010000	0	SS-316	529.48	562.91	0.00562	0
1401-005	3-lp CL	155-010000	0	SS-316	529.04	562.89	0.00563	0
1401-006	3-lp CL	160-010000	0	SS-316	528.86	563.31	0.00500	0
1701-001	3-lp CLd	165-010000	0	SS-316	482.09	563.40	0.00556	0
1701-002	3-lp CLd	170-010000	0	SS-316	492.61	563.42	0.00565	0
1701-003	3-lp CLd	175-010000	0	SS-316	387.12	561.82	0.01057	0
1701-004	3-lp CLd	180-010000	0	SS-316	467.18	562.40	0.00587	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	446.90	556.01	0.00187	0.00085
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	486.15	521.28	0.00245	0.00275
2001-001	1-lp HL	200-010000	0	SS-316	330.38	618.73	0.38649	0
2001-002	1-lp HL	205-010000	0	SS-316	370.65	619.78	0.18690	0
2001-003	1-lp HL	210-010000	0	SS-316	481.18	620.31	0.01114	0
2001-004	1-lp HL	215-010000	0	SS-316	486.91	620.66	0.01599	0
2251-001	sngl tube	225-010000	630-010000	alloy690	268.03	272.40	0.78719	0.09302
2251-002	sngl tube	225-020000	630-020000	alloy690	267.65	272.02	0.81679	0.09341
2251-003	sngl tube	225-030000	630-030000	alloy690	274.23	277.12	0.16850	0.09353
2251-004	sngl tube	225-040000	630-040000	alloy690	311.18	311.94	0.01272	0.07129
2251-005	sngl tube	225-050000	630-050000	alloy690	323.50	324.22	0.01263	0.07088
2251-006	sngl tube	225-060000	630-060000	alloy690	340.77	341.52	0.01263	0.07205
2251-007	sngl tube	225-070000	630-070000	alloy690	359.75	360.62	0.01275	0.07562
2251-008	sngl tube	225-080000	632-010000	alloy690	386.26	387.33	0.01288	0.08048
2251-009	sngl tube	225-090000	634-010000	alloy690	399.72	400.83	0.01316	0.08141
2251-010	sngl tube	225-100000	636-010000	alloy690	408.01	409.14	0.01347	0.08190
2251-011	sngl tube	225-110000	637-010000	alloy690	403.70	404.71	0.01381	0.07919
2251-012	sngl tube	225-120000	635-010000	alloy690	405.40	406.42	0.01408	0.07967
2251-013	sngl tube	225-130000	633-010000	alloy690	404.45	405.42	0.01438	0.07826
2251-014	sngl tube	225-140000	631-070000	alloy690	416.75	417.90	0.01459	0.08234

Table CLSt3-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	419.71	420.86	0.01490	0.08267
2251-016	sngl tube	225-160000	631-050000	alloy690	422.27	423.46	0.01519	0.08334
2251-017	sngl tube	225-170000	631-040000	alloy690	424.10	425.33	0.01543	0.08394
2251-018	sngl tube	225-180000	631-030000	alloy690	425.47	426.70	0.01561	0.08415
2251-019	sngl tube	225-190000	631-020000	alloy690	426.94	428.17	0.01577	0.08428
2251-020	sngl tube	225-200000	631-010000	alloy690	428.39	429.68	0.01593	0.08514
2401-001	1-lp CL suc	235-010000	0	SS-316	431.89	559.48	0.01580	0
2401-002	1-lp CL suc	240-010000	0	SS-316	426.36	559.07	0.01535	0
2401-003	1-lp CL suc	245-010000	0	SS-316	422.19	558.67	0.01540	0
2401-004	1-lp CL suc	250-010000	0	SS-316	413.31	557.75	0.01506	0
2401-005	1-lp CL suc	255-010000	0	SS-316	376.97	560.74	0.12559	0
2401-006	1-lp CL suc	260-010000	0	SS-316	431.50	560.65	0.01674	0
2701-001	1-lp CL dis	265-010000	0	SS-316	282.57	561.63	0.18581	0
2701-002	1-lp CL dis	270-010000	0	SS-316	267.12	561.39	0.16727	0
2701-003	1-lp CL dis	275-010000	0	SS-316	288.83	561.09	0.13169	0
2701-004	1-lp CL dis	280-010000	0	SS-316	307.20	561.75	0.41462	0
101-001	RPV head	94-010000	0	alloy600	555.49	565.61	0.00051	0
101-002	RPV head	90-010000	0	SA-508	288.70	565.31	0.71440	0
102-001	RPV head flange	90-010000	0	alloy600	288.39	565.32	0.70222	0
103-001	RPV nozzle	10-010000	0	alloy600	481.20	565.56	0.00163	0
103-002	RPV nozzle	12-010000	0	alloy600	338.80	565.54	0.47155	0
104-001	RPV int shell	12-010000	0	alloy600	335.64	565.52	0.44828	0
104-002	RPV int shell	14-010000	0	alloy600	284.36	565.54	0.10470	0
104-003	RPV int shell	16-010000	0	alloy600	282.57	565.55	0.52564	0
105-001	RPV lower shell	16-010000	0	alloy600	282.03	565.53	0.50470	0
105-002	RPV lower shell	18-010000	0	alloy600	286.34	565.54	0.49234	0
106-001	RPV lower hd	18-010000	0	alloy600	286.24	564.13	0.48834	0
106-002	RPV lower hd	20-010000	0	SA-508	293.56	564.28	0.60845	0
201-001	core barrel	10-010000	86-010000	SS-316	434.42	570.73	0.00163	0.00055
201-002	core barrel	12-010000	84-010000	SS-316	309.55	551.79	0.27808	0.00247
201-003	core barrel	14-010000	80-040000	SS-316	276.14	291.41	0.06415	0.00284

Table CLSt3-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	276.08	293.62	0.06388	0.00285
201-005	core barrel	16-010000	80-020000	SS-316	273.75	298.29	0.16903	0.07386
201-006	core barrel	16-010000	80-010000	SS-316	273.57	276.67	0.16171	0.85766
202-001	low sup plate	22-010000	0	SS-316	282.47	398.05	0.30957	0
203-001	fl dis dvce	22-010000	0	SS-316	229.88	225.39	0.09037	0
204-001	HR	24-010000	80-010000	SS-316	270.02	277.21	0.21329	0.87850
204-002	HR	26-010000	80-010000	SS-316	271.54	277.23	0.21377	0.87926
204-003	HR	28-010000	80-010000	SS-316	273.80	277.26	0.21463	0.88028
204-004	HR	30-010000	80-010000	SS-316	275.85	277.28	0.23317	0.88124
204-005	HR	32-010000	80-010000	SS-316	277.58	277.31	0.33837	0.88237
204-006	HR	34-010000	80-010000	SS-316	278.94	277.35	0.42000	0.88374
204-007	HR	36-010000	80-020000	SS-316	280.01	301.27	0.46506	0.06412
204-008	HR	38-010000	80-020000	SS-316	280.86	301.43	0.60797	0.06367
204-009	HR	40-010000	80-020000	SS-316	281.57	301.59	0.70932	0.06321
204-010	HR	42-010000	80-020000	SS-316	282.27	301.74	0.50809	0.06278
204-011	HR	44-010000	80-020000	SS-316	282.58	301.90	0.53121	0.06235
204-012	HR	46-010000	80-020000	SS-316	282.67	302.06	0.57543	0.06190
204-013	HR	48-010000	80-020000	SS-316	283.25	302.23	0.64708	0.06145
204-014	HR	50-010000	80-030000	SS-316	284.27	297.15	0.72232	0.00285
204-015	HR	52-010000	80-030000	SS-316	286.23	297.29	0.82147	0.00285
204-016	HR	54-010000	80-030000	SS-316	289.29	297.42	0.96356	0.00285
204-017	HR	56-010000	80-030000	SS-316	292.22	297.54	1.00460	0.00285
204-018	HR	58-010000	80-030000	SS-316	294.69	297.65	1.03090	0.00285
204-019	HR	60-010000	80-030000	SS-316	298.54	297.77	1.15040	0.00285
204-020	HR	62-010000	80-040000	SS-316	307.83	314.52	1.43860	0.00279
204-021	HR	64-010000	80-040000	SS-316	312.18	314.73	1.55480	0.00279
204-022	HR	66-010000	80-040000	SS-316	321.48	315.10	1.82540	0.00279
204-023	HR	68-010000	80-040000	SS-316	396.81	315.58	0.46954	0.00279
204-024	HR	70-010000	80-040000	SS-316	412.02	316.09	0.17542	0.00279
204-025	HR	72-010000	80-040000	SS-316	419.87	316.19	0.86281	0.00279
204-026	HR	74-010000	80-040000	SS-316	428.70	316.10	0.96169	0.00279
204-027	HR	76-010000	80-040000	SS-316	434.81	316.12	0.66020	0.00279

Table CLSt3-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	489.90	315.67	0.55655	0.00279
205-001	UPR core plt	84-010000	0	SS-316	529.62	535.02	0.00246	0
206-001	LMP	84-010000	0	SS-316	494.76	497.41	0.00243	0
206-002	LMP	86-010000	0	SS-316	535.05	535.75	0.00054	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	571.46	326.85	0.00055	0.11539
208-001	CRGA	84-010000	0	SS-316	461.46	463.38	0.00241	0
208-002	CRGA	86-010000	0	SS-316	516.52	517.06	0.00053	0
208-003	CRGA	92-010000	0	SS-316	276.65	277.61	0.03717	0
4001-001	pzr srg	400-010000	0	SA-508	576.25	582.86	0.00532	0
4101-001	pzr srg	410-010000	0	SA-508	630.27	646.63	0.00047	0
4101-002	pzr srg	410-020000	0	SA-508	638.13	651.89	0.00049	0
4101-003	pzr srg	410-030000	0	SA-508	642.25	653.51	0.00050	0
4101-004	pzr srg	410-040000	0	SA-508	646.20	655.05	0.00050	0
4101-005	pzr srg	410-050000	0	SA-508	649.02	655.04	0.00051	0
4101-006	pzr srg	410-060000	0	SA-508	649.01	655.02	0.00050	0
4201-001	prz hd	408-010000	0	SA-508	622.70	643.21	0.00045	0
4301-001	prz upr hd	412-010000	0	SA-508	650.35	656.21	0.00047	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLSt3-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		239.2		0.21329
301-002	Fuel Cladding	0	26-010000	cladding		245.04		0.21377
301-003	Fuel Cladding	0	28-010000	cladding		252.52		0.21463
301-004	Fuel Cladding	0	30-010000	cladding		259.37		0.21565
301-005	Fuel Cladding	0	32-010000	cladding		265.37		0.21687
301-006	Fuel Cladding	0	34-010000	cladding		270.91		0.21983
301-007	Fuel Cladding	0	36-010000	cladding		275.78		0.21082
301-008	Fuel Cladding	0	38-010000	cladding		279.34		0.2251
301-009	Fuel Cladding	0	40-010000	cladding		281.9		0.23984
301-010	Fuel Cladding	0	42-010000	cladding		284.28		0.13126
301-011	Fuel Cladding	0	44-010000	cladding		285.87		0.12484
301-012	Fuel Cladding	0	46-010000	cladding		285.16		0.13139
301-013	Fuel Cladding	0	48-010000	cladding		283.67		0.1699
301-014	Fuel Cladding	0	50-010000	cladding		282.51		0.20784
301-015	Fuel Cladding	0	52-010000	cladding		281.64		0.23803

Table CLSt3-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		281.25		0.2621
301-017	Fuel Cladding	0	56-010000	cladding		281.64		0.24907
301-018	Fuel Cladding	0	58-010000	cladding		281.04		0.24546
301-019	Fuel Cladding	0	60-010000	cladding		280.25		0.25903
301-020	Fuel Cladding	0	62-010000	cladding		279.46		0.25573
301-021	Fuel Cladding	0	64-010000	cladding		278.57		0.30232
301-022	Fuel Cladding	0	66-010000	cladding		277.32		0.31932
301-023	Fuel Cladding	0	68-010000	cladding		276.64		0.25693
301-024	Fuel Cladding	0	70-010000	cladding		274.94		0.24505
301-025	Fuel Cladding	0	72-010000	cladding		273.67		0.30817
301-026	Fuel Cladding	0	74-010000	cladding		272.91		0.40598
301-027	Fuel Cladding	0	76-010000	cladding		272.25		0.60316
301-028	Fuel Cladding	0	78-010000	cladding		269.55		0.38809

Table CLSt3-3: CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 125 seconds)

Table CLSt3-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.976	267.1	271.2
105-010000	112.108	0.976	267.1	272.8
110-010000	90.692	0.998	267.1	281.6
115-010000	99.530	0.998	267	277.7
117-010000	34.487	0.999	267	276.1
120-010000	605.616	0.969	267.1	270.1
121-010000	90.006	0.983	267	307.5
125-010000	104.546	0.987	266.9	329.6
125-020000	104.546	0.991	266.7	343.9
125-030000	104.546	0.994	266.6	355.5
125-040000	104.546	0.996	266.5	366
125-050000	156.828	0.998	266.4	380
125-060000	209.092	0.999	266.3	395.4
125-070000	209.092	1.000	266.2	406.1
125-080000	209.092	1.000	266.1	414.5
125-090000	209.092	1.000	266.1	427.4
125-100000	182.764	1.000	266	439.2
125-110000	182.764	1.000	266	447
125-120000	209.092	1.000	265.9	448.4
125-130000	209.092	1.000	265.9	449.1
125-140000	209.092	1.000	265.9	449.4
125-150000	209.092	1.000	265.8	449.8
125-160000	156.828	1.000	265.8	450.4
125-170000	104.546	1.000	265.7	451.2
125-180000	104.546	1.000	265.7	452.3
125-190000	104.546	1.000	265.7	453.9
125-200000	104.546	1.000	265.7	456.1
129-010000	90.006	1.000	265.7	476.8
130-010000	605.616	1.000	265.7	460
132-010000	34.487	1.000	265.5	458.2
135-010000	51.857	1.000	265.5	457
140-010000	61.586	1.000	265.5	455.4

Table CLSt3-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	265.5	452.1
150-010000	102.591	1.000	265.6	448.9
155-010000	108.946	1.000	265.6	445.5
160-010000	413.100	1.000	265	453.5
165-010000	105.120	1.000	264.4	450.3
170-010000	105.120	1.000	261.9	449.7
175-010000	135.835	0.979	180.2	445.8
180-010000	116.691	0.992	189.8	443.7
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.986	265.9	266.5
205-010000	37.369	0.987	265.6	266
210-010000	30.231	0.996	265.5	267.1
215-010000	33.177	0.997	264.3	264.9
217-010000	11.496	0.999	263.6	263.4
220-010000	201.872	0.988	264.6	265.7
221-010000	30.002	0.994	264.3	266.3
225-010000	34.849	0.995	263.8	264.1
225-020000	34.849	0.996	263.4	263.4
225-030000	34.849	0.997	262.9	264
225-040000	34.849	0.997	262.3	274.9
225-050000	52.276	0.997	261.7	287.5
225-060000	69.697	0.998	260.7	300.4
225-070000	69.697	0.998	259.6	312.1
225-080000	69.697	0.998	258.5	326.4
225-090000	69.697	0.998	257.2	337.4
225-100000	60.921	0.998	255.9	344.8
225-110000	60.921	0.998	254.7	347.4
225-120000	69.697	0.999	253.3	350.1
225-130000	69.697	0.999	251.7	351.2
225-140000	69.697	0.999	250	356.7
225-150000	69.697	0.999	248.1	360.6

Table CLSt3-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	0.999	246.4	362.6
225-170000	34.849	0.999	245	363.6
225-180000	34.849	0.999	243.8	365.2
225-190000	34.849	0.999	242.6	367.2
225-200000	34.849	0.999	241.3	367
229-010000	30.002	0.999	240.1	372.6
230-010000	201.872	0.999	239.9	324.7
232-010000	11.496	1.000	229.3	245.1
235-010000	17.286	1.000	224.5	230
240-010000	20.529	1.000	220.7	220.4
245-010000	38.892	1.000	218	217.8
250-010000	34.197	1.000	211.5	211
255-010000	36.315	0.986	231	255.3
260-010000	137.700	0.941	241.9	251.5
265-010000	35.040	0.973	225.3	338.3
270-010000	35.040	0.952	222.8	339.4
275-010000	45.278	0.960	211.5	340.2
280-010000	38.897	0.993	259	341
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.984	252.7	304.1
12-010000	184.160	0.980	259.7	373.4
14-010000	366.488	0.660	250.1	292
16-010000	414.895	0.000	244.1	271.8
18-010000	120.792	0.000	241.1	276.1
20-010000	212.629	0.000	238.3	277.9
22-010000	315.096	0.000	238.4	276.3
24-010000	45.438	0.000	238.9	274.9
26-010000	48.504	0.000	240.5	274.5
28-010000	48.504	0.000	243.3	274
30-010000	35.789	0.000	246.7	273.5

Table CLSt3-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
32-010000	35.789	0.000	250.8	273.1
34-010000	35.789	0.000	255.5	272.7
36-010000	35.789	0.020	260.3	272.2
38-010000	35.789	0.000	264.9	272.2
40-010000	35.789	0.016	268.4	271.7
42-010000	35.789	0.148	270.7	270.6
44-010000	35.789	0.393	270.2	270.1
46-010000	35.789	0.466	270	269.9
48-010000	35.789	0.516	269.9	269.7
50-010000	35.789	0.563	269.7	269.6
52-010000	35.789	0.590	269.6	269.4
54-010000	33.109	0.579	269.4	269.3
56-010000	33.109	0.714	269.2	269.1
58-010000	33.109	0.816	269	269
60-010000	33.109	0.852	268.8	268.8
62-010000	33.109	0.873	268.7	268.7
64-010000	33.109	0.868	268.6	268.6
66-010000	33.109	0.852	268.5	268.5
68-010000	33.109	0.894	268.3	268.3
70-010000	33.109	0.924	268.2	268.2
72-010000	21.064	0.910	268.2	268.2
74-010000	21.064	0.909	268	268
76-010000	21.051	0.823	267.8	267.8
78-010000	86.638	0.907	267.5	267.7
80-010000	5.964	0.031	265.6	256.8
80-020000	4.483	0.946	265.5	272.5
80-030000	4.951	0.999	267.7	273.6
80-040000	5.894	1.000	267.6	279.9
82-010000	28.768	0.000	247.6	272
82-020000	21.625	0.127	265.5	268.6
82-030000	23.882	0.996	267.5	267.6
82-040000	28.430	1.000	267.5	267.6
84-010000	573.893	0.974	267.2	270

Table CLSt3-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
86-010000	276.840	0.998	267.2	270.6
88-010000	202.853	1.000	268	267.9
88-020000	83.659	1.000	268	268.1
88-030000	182.966	0.985	268.2	271.7
90-010000	120.233	0.351	269.7	269.2
92-010000	505.835	0.835	269.2	274.7
94-010000	267.973	1.000	268.6	270.1
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	0.999	267.8	432.9
408-010000	161.115	0.999	268.7	399
410-010000	395.598	1.000	268.7	382.7
410-020000	395.598	1.000	268.7	367.5
410-030000	395.598	1.000	268.7	360.5
410-040000	395.598	1.000	268.7	359
410-050000	395.598	1.000	268.7	359.7
410-060000	395.598	1.000	268.7	362.4
412-010000	161.115	1.000	268.7	398.5

Table CLSt3-4: CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 125 seconds)

Table CLSt3-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	62.2	492.35
1552-001	sg sep	61.9	473.36
1601-001	sg sep	62.9	535.88
1621-001	sg sep	63.4	574.05
1641-001	sg sep	62.7	525.74
1641-002	sg sep	63.3	561.81
1801-001	1-lp sg sh	64.7	533.38
1801-002	1-lp sg sh	64.5	526.13
1801-003	1-lp sg sh	64.3	517.26
1802-001	1-lp sg sh	65.0	544.98
1803-001	1-lp sg sh	65.5	564.59
1803-002	1-lp sg sh	65.2	554.81
1803-003	1-lp sg sh	65.3	558.18
1803-004	1-lp sg sh	65.5	563.8
1803-005	1-lp sg sh	65.6	570.2
1804-001	1-lp sg sh	65.6	570.48
1806-001	1-lp sg sh	62.7	457.29
1807-001	1-lp sg sh	59.5	326.28
1807-002	1-lp sg sh	61.5	445.31
1808-001	1-lp sg sh	60.0	355.21
1808-002	1-lp sg sh	60.0	357.43
1808-003	1-lp sg sh	60.1	362.95
1808-004	1-lp sg sh	60.2	370.74
1808-005	1-lp sg sh	60.5	385.1
1808-006	1-lp sg sh	60.7	398.53
1808-007	1-lp sg sh	61.0	417.68
1808-008	1-lp sg sh	61.3	432.39
1808-009	1-lp sg sh	61.5	444.24
1808-010	1-lp sg sh	61.5	449.72
1808-011	1-lp sg sh	61.5	449.34
1808-012	1-lp sg sh	61.5	448.85
1808-013	1-lp sg sh	61.5	447.95

Table CLSt3-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	61.5	446.71
1808-015	1-lp sg sh	61.5	445.05
1808-016	1-lp sg sh	61.3	436.67
1808-017	1-lp sg sh	61.3	435.8
1808-018	1-lp sg sh	61.3	433.39
6241-001	DC sleeve	60.8	403.43
6241-002	DC sleeve	61.1	420.49
6241-003	DC sleeve	61.3	436.18
6241-004	DC sleeve	61.6	455.87
6301-001	hot DC	59.5	329.62
6301-002	hot DC	59.5	328.82
6301-003	hot DC	59.5	330.65
6301-004	hot DC	59.6	335.14
6301-005	hot DC	60.0	358.3
6301-006	hot DC	60.2	367.87
6301-007	hot DC	60.4	377.86
6301-008	hot DC	60.8	406.62
6301-009	hot DC	61.0	415.84
6301-010	hot DC	61.4	441.13
6301-011	hot DC	61.5	449.35
6311-001	cold DC	61.5	445.02
6311-002	cold DC	61.5	444.39
6311-003	cold DC	61.5	443.8
6311-004	cold DC	61.4	443.18
6311-005	cold DC	61.4	442.79
6311-006	cold DC	61.4	441.56
6311-007	cold DC	61.4	440.28
6311-008	cold DC	61.3	436.1
6311-009	cold DC	61.3	435.71
6311-010	cold DC	61.3	433.81
6311-011	cold DC	61.4	443.44
1543-001	sg sep	62.8	533.21

Table CLSt3-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	62.7	524.84
1602-001	sg sep	63.3	564.21
1622-001	sg sep	63.5	578.71
1642-001	sg sep	63.2	561.71
1642-002	sg sep	63.3	566.55
1901-001	3-lp sg sh	65.2	554.79
1901-002	3-lp sg sh	65.2	553.68
1901-003	3-lp sg sh	65.2	552.3
1902-001	3-lp sg sh	65.3	557.26
1903-001	3-lp sg sh	65.5	566.1
1903-002	3-lp sg sh	65.3	558.97
1903-003	3-lp sg sh	65.4	559.93
1903-004	3-lp sg sh	65.5	564.47
1903-005	3-lp sg sh	65.7	573.47
1904-001	3-lp sg sh	65.7	573.96
1906-001	3-lp sg sh	64.2	514.87
1907-001	3-lp sg sh	62.6	520.6
1907-002	3-lp sg sh	61.6	454.04
1908-001	3-lp sg sh	62.7	526.19
1908-002	3-lp sg sh	62.7	525.07
1908-003	3-lp sg sh	62.7	522.81
1908-004	3-lp sg sh	62.6	519.44
1908-005	3-lp sg sh	62.5	512.54
1908-006	3-lp sg sh	62.3	500.33
1908-007	3-lp sg sh	62.1	485.68
1908-008	3-lp sg sh	62.2	491.88
1908-009	3-lp sg sh	62.3	494.6
1908-010	3-lp sg sh	61.7	457.44
1908-011	3-lp sg sh	61.7	458.16
1908-012	3-lp sg sh	61.7	458.96
1908-013	3-lp sg sh	61.7	460.27
1908-014	3-lp sg sh	61.7	462.26
1908-015	3-lp sg sh	61.8	464.27

Table CLSt3-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 125 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	61.8	468.18
1908-017	3-lp sg sh	62.0	475.8
1908-018	3-lp sg sh	62.1	481.79
7241-001	3-lp DC sleeve	62.1	483.59
7241-002	3-lp DC sleeve	62.1	486.9
7241-003	3-lp DC sleeve	62.2	490.9
7241-004	3-lp DC sleeve	62.4	505.24
7301-001	3-lp DC	62.6	518.78
7301-002	3-lp DC	62.6	518.5
7301-003	3-lp DC	62.6	517.42
7301-004	3-lp DC	62.6	515.47
7301-005	3-lp DC	62.6	515.23
7301-006	3-lp DC	62.5	509.97
7301-007	3-lp DC	62.4	501.65
7301-008	3-lp DC	62.3	495.32
7301-009	3-lp DC	62.3	498.38
7301-010	3-lp DC	62.4	505.25
7301-011	3-lp DC	62.6	519.03
7311-001	3-lp DC cold	61.7	457.72
7311-002	3-lp DC cold	61.7	456.97
7311-003	3-lp DC cold	61.7	456.5
7311-004	3-lp DC cold	61.7	456.2
7311-005	3-lp DC cold	61.7	457.2
7311-006	3-lp DC cold	61.7	456.99
7311-007	3-lp DC cold	61.7	456.85
7311-008	3-lp DC cold	61.7	459.23
7311-009	3-lp DC cold	61.7	459.74
7311-010	3-lp DC cold	61.7	462.2
7311-011	3-lp DC cold	62.0	478.11

Table CLSt3-5: CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 125 seconds)

Table CLPSt3-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	484.01	500.62	0.08875	0.08418
1552-001	sg sep	640-010000	623-010000	SS-316	467.6	478.96	0.07949	0.07348
1601-001	sg sep	642-010000	645-010000	SS-316	512.42	556.54	0.09378	0.11149
1621-001	sg sep	660-010000	660-010000	SS-316	609.67	609.67	0.27639	0.27639
1641-001	sg sep	645-010000	642-010000	SS-316	538.72	513.32	0.08982	0.09482
1641-002	sg sep	650-010000	650-010000	SS-316	561.43	561.4	0.19222	0.19218
1801-001	1-lp sg sh	625-020000	0	SA-508	464.76	557.49	0.09405	0
1801-002	1-lp sg sh	625-030000	0	SA-508	440.96	556.71	0.09450	0
1801-003	1-lp sg sh	625-040000	0	SA-508	414.31	555.63	0.09451	0
1802-001	1-lp sg sh	625-010000	0	SA-508	490.86	558.85	0.10754	0
1803-001	1-lp sg sh	645-010000	0	SA-508	576.61	559.25	0.02526	0
1803-002	1-lp sg sh	623-010000	0	SA-508	535.92	559.08	0.07271	0
1803-003	1-lp sg sh	639-010000	0	SA-508	552.39	559.13	0.05856	0
1803-004	1-lp sg sh	650-010000	0	SA-508	567.52	559.06	0.20014	0
1803-005	1-lp sg sh	660-010000	0	SA-508	606.93	559.06	0.25260	0
1804-001	1-lp sg sh	670-010000	0	SA-508	608.35	559.01	0.29797	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	452.99	455.67	0.06349	0.06385
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	321.81	321.81	0.06623	0.06623
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	444.78	444.78	0.05187	0.05187
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	338.7	338.7	0.07538	0.07538
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	341.56	341.56	0.07512	0.07512
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	348.84	348.84	0.07128	0.07128
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	357.88	357.88	0.07070	0.07070
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	373.43	373.43	0.07115	0.07115
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	388.91	388.91	0.06907	0.06907
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	410.87	410.87	0.06507	0.06507
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	425.83	425.83	0.06721	0.06721
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	436.8	436.8	0.07019	0.07019
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	447.37	447.37	0.06031	0.06031
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	446.65	446.65	0.06142	0.06142
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	445.85	445.85	0.06227	0.06227

Table CLPSt3-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	444.54	444.54	0.06324	0.06324
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	442.75	442.75	0.06445	0.06445
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	440.63	440.63	0.06543	0.06543
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	430.91	430.91	0.06920	0.06920
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	430.19	430.19	0.06700	0.06700
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	428.09	428.09	0.06667	0.06667
6241-001	DC sleeve	624-040000	625-040000	SS-316	420.75	382.63	0.07322	0.07540
6241-002	DC sleeve	624-030000	625-030000	SS-316	430.75	407.92	0.06248	0.06923
6241-003	DC sleeve	624-020000	625-020000	SS-316	441.17	429.68	0.04988	0.06072
6241-004	DC sleeve	624-010000	625-010000	SS-316	455.9	455.57	0.00699	0.03924
6301-001	hot DC	630-010000	625-040000	SS-316	321.35	334.53	0.06592	0.03546
6301-002	hot DC	630-020000	625-040000	SS-316	320.68	333.83	0.06544	0.03698
6301-003	hot DC	630-030000	625-040000	SS-316	323.37	335.02	0.06456	0.03435
6301-004	hot DC	630-040000	625-040000	SS-316	331.15	337.68	0.05665	0.02756
6301-005	hot DC	630-050000	625-030000	SS-316	349.83	365.58	0.06465	0.05281
6301-006	hot DC	630-060000	625-030000	SS-316	362.36	371.99	0.06156	0.04159
6301-007	hot DC	630-070000	625-030000	SS-316	375.61	379.17	0.05345	0.02885
6301-008	hot DC	632-010000	625-020000	SS-316	403.9	408.56	0.05547	0.03162
6301-009	hot DC	634-010000	625-020000	SS-316	414.86	415.89	0.05061	0.03309
6301-010	hot DC	636-010000	625-010000	SS-316	434.6	445.83	0.06804	0.05334
6301-011	hot DC	638-010000	625-010000	SS-316	444.57	451.94	0.05533	0.01952
6311-001	cold DC	631-010000	624-040000	SS-316	444.13	445.42	0.05020	0.02374
6311-002	cold DC	631-020000	624-040000	SS-316	443.19	445	0.05243	0.02374
6311-003	cold DC	631-030000	624-040000	SS-316	442.34	444.59	0.05383	0.02374
6311-004	cold DC	631-040000	624-040000	SS-316	441.48	444.15	0.05499	0.02374
6311-005	cold DC	631-050000	624-030000	SS-316	440.52	444.28	0.05707	0.03141
6311-006	cold DC	631-060000	624-030000	SS-316	438.78	443.45	0.05883	0.03468
6311-007	cold DC	631-070000	624-030000	SS-316	436.93	442.61	0.06057	0.03758
6311-008	cold DC	633-010000	624-020000	SS-316	429.6	441.06	0.06790	0.05013
6311-009	cold DC	635-010000	624-020000	SS-316	429.59	440.64	0.06636	0.05101
6311-010	cold DC	637-010000	624-010000	SS-316	426.96	441.03	0.06542	0.07254
6311-011	cold DC	638-010000	624-010000	SS-316	439.56	447.14	0.04904	0.05865

Table CLPSt3-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	528.96	537.4	0.07845	0.07198
1553-001	sg sep	740-010000	723-010000	SS-316	520.87	528.7	0.07677	0.06920
1602-001	sg sep	742-010000	745-010000	SS-316	550.03	576.95	0.08518	0.09921
1622-001	sg sep	760-010000	760-010000	SS-316	626.15	626.15	0.18870	0.18870
1642-001	sg sep	745-010000	742-010000	SS-316	570.65	553.15	0.11446	0.08994
1642-002	sg sep	750-010000	750-010000	SS-316	567.33	567.4	0.14314	0.14340
1901-001	3-lp sg sh	725-020000	0	SA-508	541.15	558.72	0.07980	0
1901-002	3-lp sg sh	725-030000	0	SA-508	538.16	558.43	0.07988	0
1901-003	3-lp sg sh	725-040000	0	SA-508	534.45	558.16	0.07996	0
1902-001	3-lp sg sh	725-010000	0	SA-508	548.85	558.98	0.08266	0
1903-001	3-lp sg sh	745-010000	0	SA-508	583.59	559.31	0.07799	0
1903-002	3-lp sg sh	723-010000	0	SA-508	557.43	559.11	0.07303	0
1903-003	3-lp sg sh	739-010000	0	SA-508	561.52	559.14	0.03308	0
1903-004	3-lp sg sh	750-010000	0	SA-508	569.94	559.13	0.15239	0
1903-005	3-lp sg sh	760-010000	0	SA-508	623.8	559.14	0.18291	0
1904-001	3-lp sg sh	770-010000	0	SA-508	626.44	559.09	0.21419	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	510.73	513.77	0.06503	0.06493
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	519.24	519.24	0.06073	0.06073
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	454.76	454.76	0.05211	0.05211
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	522.47	522.47	0.06833	0.06833
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	520.7	520.7	0.07074	0.07074
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	517.55	517.55	0.07311	0.07311
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	513.14	513.14	0.07505	0.07505
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	504.73	504.73	0.07703	0.07703
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	491	491	0.07757	0.07757
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	476.47	476.47	0.07426	0.07426
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	482.28	482.28	0.07566	0.07566
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	484.94	484.94	0.07574	0.07574
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	456.46	456.46	0.03458	0.03458
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	456.57	456.57	0.04275	0.04275
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	456.83	456.83	0.04939	0.04939

Table CLPSt3-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 125 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	457.46	457.46	0.05427	0.05427
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	458.6	458.6	0.05825	0.05825
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	459.79	459.79	0.06118	0.06118
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	462.48	462.48	0.06543	0.06543
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	467.92	467.92	0.07057	0.07057
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	473.65	473.65	0.06698	0.06698
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	474.06	494.81	0.10401	0.07996
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	477.25	498.55	0.10398	0.07988
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	482.24	502.14	0.10395	0.07980
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	496.53	516.05	0.06517	0.08998
7301-001	3-lp DC	730-010000	725-040000	SS-316	517.57	518.56	0.05752	0.07996
7301-002	3-lp DC	730-020000	725-040000	SS-316	516.89	518.49	0.05997	0.07996
7301-003	3-lp DC	730-030000	725-040000	SS-316	515	517.95	0.06331	0.07996
7301-004	3-lp DC	730-040000	725-040000	SS-316	511.92	516.87	0.06669	0.07996
7301-005	3-lp DC	730-050000	725-030000	SS-316	509.35	518.7	0.07135	0.07988
7301-006	3-lp DC	730-060000	725-030000	SS-316	501.78	515.53	0.07451	0.07988
7301-007	3-lp DC	730-070000	725-030000	SS-316	490.44	510.3	0.07715	0.07988
7301-008	3-lp DC	732-010000	725-020000	SS-316	481.52	507.31	0.07821	0.07980
7301-009	3-lp DC	734-010000	725-020000	SS-316	485.31	509.37	0.07800	0.07980
7301-010	3-lp DC	736-010000	725-010000	SS-316	490.48	517.86	0.07988	0.08628
7301-011	3-lp DC	738-010000	725-010000	SS-316	510.55	525.5	0.06486	0.06701
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	457.03	459.94	0.04521	0.10401
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	455.71	459.6	0.03458	0.10401
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	454.91	459.38	0.03455	0.10401
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	454.37	459.24	0.03999	0.10401
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	454.6	461.2	0.04667	0.10398
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	454.22	461.1	0.04845	0.10398
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	453.96	461.04	0.04956	0.10398
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	455.15	465.15	0.05366	0.10395
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	455.77	465.48	0.05343	0.10395
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	459.18	468.41	0.02049	0.08125
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	479.8	478.35	0.04775	0.05868

Table CLSt3-6: CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 125 seconds)

Table CLPSt3-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	504.35	616.44
623-010000	366.645	0.000	507.89	616.44
624-010000	155.893	0.000	455.86	616.62
624-020000	43.006	0.000	450.44	616.89
624-030000	59.135	0.000	447.23	617.22
624-040000	43.006	0.000	445.43	617.54
625-010000	180.020	0.000	452.48	616.63
625-020000	73.345	0.000	412.01	616.9
625-030000	100.851	0.000	379.85	617.24
625-040000	73.345	0.000	340.87	617.58
630-010000	70.116	0.000	296.95	617.69
630-020000	70.116	0.000	296.99	617.62
630-030000	70.116	0.000	301.54	617.54
630-040000	70.116	0.000	319.41	617.46
630-050000	105.180	0.000	331.09	617.37
630-060000	140.232	0.000	348.24	617.24
630-070000	140.232	0.000	368.18	617.1
631-010000	70.116	0.000	439.46	617.64
631-020000	70.116	0.000	437.61	617.58
631-030000	70.116	0.000	436.12	617.51
631-040000	70.116	0.000	434.69	617.44
631-050000	105.180	0.000	432.6	617.35
631-060000	140.232	0.000	429.77	617.23
631-070000	140.232	0.000	426.74	617.09
632-010000	140.232	0.000	396.11	616.95
633-010000	140.232	0.000	412.9	616.95
634-010000	140.232	0.000	409.67	616.81
635-010000	140.232	0.000	414.42	616.81
636-010000	86.672	0.000	417.99	616.7
637-010000	86.672	0.000	412.56	616.7
638-010000	609.522	0.000	428.08	616.56
639-010000	635.282	0.000	539.36	616.34
640-010000	125.309	0.000	439.31	616.41

Table CLPSt3-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
641-010000	117.514	0.000	448.01	616.3
642-010000	320.019	0.000	480.22	616.15
645-010000	1075.296	0.000	577.11	616.2
650-010000	830.204	0.427	514.59	636.58
660-010000	703.676	1.000	615.98	629.43
670-010000	400.000	1.000	615.97	626.16
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	537.72	644.3
723-010000	1099.935	0.000	550.24	644.3
724-010000	467.679	0.000	486.26	644.42
724-020000	129.019	0.000	476.13	644.65
724-030000	177.404	0.000	468.59	644.92
724-040000	129.019	0.000	464.98	645.19
725-010000	540.019	0.000	534.18	644.44
725-020000	220.035	0.000	524.24	644.65
725-030000	302.553	0.000	520.56	644.91
725-040000	220.035	0.000	515.55	645.17
730-010000	210.349	0.000	510.69	645.26
730-020000	210.349	0.000	508.74	645.2
730-030000	210.349	0.000	504.82	645.15
730-040000	210.349	0.000	499.27	645.09
730-050000	315.541	0.000	492.44	645.02
730-060000	420.697	0.000	481.03	644.92
730-070000	420.697	0.000	465.61	644.81
731-010000	210.349	0.000	460.01	645.28
731-020000	210.349	0.000	456.58	645.22
731-030000	210.349	0.000	454.16	645.16
731-040000	210.349	0.000	452.51	645.1
731-050000	315.541	0.000	451.15	645.03
731-060000	420.697	0.000	450.2	644.93
731-070000	420.697	0.000	449.55	644.81

Table CLPSt3-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 125 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
732-010000	420.697	0.000	454.54	644.69
733-010000	420.697	0.000	449.09	644.69
734-010000	420.697	0.000	458.91	644.58
735-010000	420.697	0.000	449.83	644.58
736-010000	260.017	0.000	461.64	644.48
737-010000	260.017	0.000	459.31	644.48
738-010000	1828.567	0.000	488.57	644.37
739-010000	1905.846	0.000	560.53	644.21
740-010000	375.926	0.000	500.11	644.25
741-010000	352.543	0.000	507.65	644.16
742-010000	960.056	0.000	528.6	644.04
745-010000	3225.888	0.000	591.63	644.1
750-010000	2490.612	0.017	554.81	643.92
760-010000	2111.028	1.000	643.86	665.41
770-010000	1200.000	1.000	643.85	664.6

Table CLSt4-1: CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

Table CLSt4-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	60.9	407.94
1001-002	3-lp HL	61.2	426.9
1001-003	3-lp HL	61.7	459.88
1001-004	3-lp HL	57.8	233.84
1081-001	1-lp sg ch	62.9	537.31
1081-002	1-lp sg ch	62.4	503.73
1082-001	3-lp sg ch	60	355.36
1082-002	3-lp sg ch	63.1	548.85
1091-001	1-lp sg ch	57.8	226.61
1091-002	1-lp sg ch	57.6	215.98
1092-001	3-lp sg ch	57.8	226.77
1092-002	3-lp sg ch	58.4	264.35
1251-001	3-lp SG tube	57.8	226.74
1251-002	3-lp SG tube	57.8	226.52
1251-003	3-lp SG tube	57.8	226.21
1251-004	3-lp SG tube	57.7	225.84
1251-005	3-lp SG tube	57.7	225.56
1251-006	3-lp SG tube	57.7	225.29
1251-007	3-lp SG tube	57.7	225.47
1251-008	3-lp SG tube	58.6	274.91
1251-009	3-lp SG tube	59.1	304.23
1251-010	3-lp SG tube	60.4	373.41
1251-011	3-lp SG tube	60.4	373.47
1251-012	3-lp SG tube	59.1	303.85
1251-013	3-lp SG tube	58.7	277.17
1251-014	3-lp SG tube	58.4	261.38
1251-015	3-lp SG tube	58.3	257.49
1251-016	3-lp SG tube	58.3	256.55
1251-017	3-lp SG tube	58.3	254.08
1251-018	3-lp SG tube	58.2	253.76
1251-019	3-lp SG tube	58.2	253.87
1251-020	3-lp SG tube	58.3	254.03

Table CLSt4-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	61.1	420.31
1401-002	3-lp CL	61.1	421.1
1401-003	3-lp CL	61.1	420.9
1401-004	3-lp CL	61.1	422.22
1401-005	3-lp CL	61.1	419.54
1401-006	3-lp CL	61.1	419.4
1701-001	3-lp CLd	60.8	402.98
1701-002	3-lp CLd	60.6	388.9
1701-003	3-lp CLd	57.6	225.03
1701-004	3-lp CLd	57.9	238.99
1905-001	3-lp sg sh	57.8	227.13
1805-001	1-lp sg sh	58.1	244.59
2001-001	1-lp HL	57.8	232.47
2001-002	1-lp HL	57.7	232.3
2001-003	1-lp HL	59.4	319.98
2001-004	1-lp HL	57.8	232.77
2251-001	sngl tube	57.8	226.18
2251-002	sngl tube	57.7	225.73
2251-003	sngl tube	57.7	225.29
2251-004	sngl tube	57.7	224.83
2251-005	sngl tube	57.7	224.26
2251-006	sngl tube	57.7	223.41
2251-007	sngl tube	57.7	222.45
2251-008	sngl tube	57.7	221.44
2251-009	sngl tube	57.7	220.54
2251-010	sngl tube	57.6	219.99
2251-011	sngl tube	57.6	219.83
2251-012	sngl tube	57.6	218.85
2251-013	sngl tube	57.6	218.39
2251-014	sngl tube	57.6	217.95
2251-015	sngl tube	57.6	217.53
2251-016	sngl tube	57.6	217.16

Table CLSt4-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	57.6	216.88
2251-018	sngl tube	57.6	216.66
2251-019	sngl tube	57.6	216.43
2251-020	sngl tube	57.6	216.21
2401-001	1-lp CL suc	57.5	219.18
2401-002	1-lp CL suc	57.5	220.74
2401-003	1-lp CL suc	57.5	216.9
2401-004	1-lp CL suc	57.7	229.44
2401-005	1-lp CL suc	57.4	215.28
2401-006	1-lp CL suc	57.4	211.84
2701-001	1-lp CL dis	57.6	224.81
2701-002	1-lp CL dis	57.6	223.01
2701-003	1-lp CL dis	57.6	222.94
2701-004	1-lp CL dis	57.6	226.04
101-001	RPV head	63.5	557.04
101-002	RPV head	63.1	473.55
102-001	RPV head flange	63.1	533.06
103-001	RPV nozzle	63.3	543.6
103-002	RPV nozzle	63	523.04
104-001	RPV int shell	62.7	501.01
104-002	RPV int shell	60.1	322.05
104-003	RPV int shell	60.1	325.18
105-001	RPV lower shell	59.9	310.07
105-002	RPV lower shell	59.9	313.96
106-001	RPV lower hd	59.1	254.26
106-002	RPV lower hd	57.6	262.74
201-001	core barrel	61.4	442.04
201-002	core barrel	57.6	225.96
201-003	core barrel	57.5	221.86
201-004	core barrel	57.6	222.74
201-005	core barrel	57.6	224.05
201-006	core barrel	57.6	224.02

Table CLSt4-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	57.5	217.19
203-001	fl dis dvce	57.4	211.7
204-001	HR	57.6	227.04
204-002	HR	57.7	228.01
204-003	HR	57.7	229.65
204-004	HR	57.7	231.31
204-005	HR	57.8	233.24
204-006	HR	57.8	234.17
204-007	HR	57.8	234.05
204-008	HR	57.8	233.86
204-009	HR	57.8	233.68
204-010	HR	57.8	233.5
204-011	HR	57.8	233.34
204-012	HR	57.8	233.19
204-013	HR	57.8	233.05
204-014	HR	57.8	232.98
204-015	HR	57.8	232.85
204-016	HR	57.8	232.72
204-017	HR	57.8	232.6
204-018	HR	57.8	232.49
204-019	HR	57.7	232.38
204-020	HR	57.7	231.47
204-021	HR	57.7	231.36
204-022	HR	57.7	231.26
204-023	HR	57.7	231.15
204-024	HR	57.7	231.05
204-025	HR	57.7	230.98
204-026	HR	57.7	230.9
204-027	HR	57.7	230.84
204-028	HR	57.7	230.68
205-001	UPR core plt	57.7	229.43
206-001	LMP	57.7	229.24
206-002	LMP	60.6	392.35

Table CLSt4-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	62.1	487.24
208-001	CRGA	57.7	229.2
208-002	CRGA	60	354.82
208-003	CRGA	58.4	268.95
4001-001	pzr srg	64.2	515.75
4101-001	pzr srg	67.4	639.41
4101-002	pzr srg	67.5	646.25
4101-003	pzr srg	67.6	649.15
4101-004	pzr srg	67.7	651.71
4101-005	pzr srg	67.7	652.7
4101-006	pzr srg	67.7	652.9
4201-001	prz hd	67.2	632.22
4301-001	prz upr hd	67.7	654.24
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	41.0	215.53
301-002	FUEL ASS	41.2	229.98
301-003	FUEL ASS	41.4	241.71
301-004	FUEL ASS	41.5	250.34
301-005	FUEL ASS	41.6	254.61
301-006	FUEL ASS	41.7	257.74
301-007	FUEL ASS	41.7	259.5
301-008	FUEL ASS	41.7	260.67
301-009	FUEL ASS	41.7	261.61
301-010	FUEL ASS	41.7	262.32
301-011	FUEL ASS	41.7	262.74
301-012	FUEL ASS	41.7	262.93
301-013	FUEL ASS	41.7	262.88
301-014	FUEL ASS	41.7	262.57
301-015	FUEL ASS	41.7	261.93
301-016	FUEL ASS	41.7	261.08

Table CLSt4-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	41.7	260
301-018	FUEL ASS	41.7	258.69
301-019	FUEL ASS	41.6	257.16
301-020	FUEL ASS	41.6	255.42
301-021	FUEL ASS	41.6	253.48
301-022	FUEL ASS	41.6	251.35
301-023	FUEL ASS	41.5	248.92
301-024	FUEL ASS	41.5	246.11
301-025	FUEL ASS	41.4	243
301-026	FUEL ASS	41.4	240.53
301-027	FUEL ASS	41.4	237.82
301-028	FUEL ASS	41.2	229.58
301-001	**Fuel Cladding**	**29.2**	**215.53**
301-002	**Fuel Cladding**	**29.3**	**229.98**
301-003	**Fuel Cladding**	**29.3**	**241.71**
301-004	**Fuel Cladding**	**29.4**	**250.34**
301-005	**Fuel Cladding**	**29.4**	**254.61**
301-006	**Fuel Cladding**	**29.4**	**257.74**
301-007	**Fuel Cladding**	**29.4**	**259.5**
301-008	**Fuel Cladding**	**29.4**	**260.67**
301-009	**Fuel Cladding**	**29.4**	**261.61**
301-010	**Fuel Cladding**	**29.4**	**262.32**
301-011	**Fuel Cladding**	**29.4**	**262.74**
301-012	**Fuel Cladding**	**29.4**	**262.93**
301-013	**Fuel Cladding**	**29.4**	**262.88**
301-014	**Fuel Cladding**	**29.4**	**262.57**
301-015	**Fuel Cladding**	**29.4**	**261.93**
301-016	**Fuel Cladding**	**29.4**	**261.08**
301-017	**Fuel Cladding**	**29.4**	**260**
301-018	**Fuel Cladding**	**29.4**	**258.69**
301-019	**Fuel Cladding**	**29.4**	**257.16**
301-020	**Fuel Cladding**	**29.4**	**255.42**
301-021	**Fuel Cladding**	**29.4**	**253.48**

Table CLSt4-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	**Fuel Cladding**	**29.4**	**251.35**
301-023	**Fuel Cladding**	**29.4**	**248.92**
301-024	**Fuel Cladding**	**29.4**	**246.11**
301-025	**Fuel Cladding**	**29.3**	**243**
301-026	**Fuel Cladding**	**29.3**	**240.53**
301-027	**Fuel Cladding**	**29.3**	**237.82**
301-028	**Fuel Cladding**	**29.3**	**229.58**

Table CLSt4-2: CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

Table CLSt4-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	392.24	416.17	0.00255	0
1001-002	3-lp HL	105-010000	0	SS-316	412.48	434.11	0.00247	0
1001-003	3-lp HL	110-010000	0	SS-316	445.59	466.94	0.00232	0
1001-004	3-lp HL	115-010000	0	SS-316	228.8	236.42	0.14496	0
1081-001	1-lp sg ch	220-010000	0	SS-316	502.19	554.56	0.00217	0
1081-002	1-lp sg ch	230-010000	0	SS-316	480.16	515.67	0.00142	0
1082-001	3-lp sg ch	120-010000	0	SS-316	243.99	413.49	0.07831	0
1082-002	3-lp sg ch	130-010000	0	SS-316	540.53	552.96	0.00043	0
1091-001	1-lp sg ch	221-010000	0	alloy690	226.61	226.61	3.45370	0
1091-002	1-lp sg ch	229-010000	0	alloy690	215.97	215.99	0.42027	0
1092-001	3-lp sg ch	121-010000	0	alloy690	226.81	226.75	0.19445	0
1092-002	3-lp sg ch	129-010000	0	alloy690	264.21	264.38	0.00239	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	226.74	226.75	1.94490	0.02726
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	226.57	226.5	1.14440	0.02867
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	226.31	226.17	0.90012	0.03122
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	225.84	225.85	0.20181	0.03314
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	225.53	225.59	0.21255	0.03698
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	225.2	225.35	0.18096	0.03681
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	225.33	225.58	0.19743	0.04461
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	274.84	274.98	0.00171	0.04994
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	304.15	304.31	0.00177	0.05099
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	373.26	373.55	0.00179	0.06168
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	373.32	373.61	0.00190	0.06159
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	303.76	303.92	0.00208	0.05012
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	277.11	277.22	0.00218	0.04445
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	261.34	261.42	0.00225	0.04065
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	257.45	257.53	0.00229	0.03980
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	256.51	256.59	0.00233	0.03965
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	254.04	254.11	0.00235	0.03878
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	253.72	253.79	0.00237	0.03875
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	253.84	253.91	0.00239	0.03883

Table CLSt4-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	253.99	254.06	0.00241	0.03893
1401-001	3-lp CL	135-010000	0	SS-316	404.94	428	0.00261	0
1401-002	3-lp CL	140-010000	0	SS-316	406.4	428.47	0.00248	0
1401-003	3-lp CL	145-010000	0	SS-316	406.38	428.18	0.00246	0
1401-004	3-lp CL	150-010000	0	SS-316	407.98	429.37	0.00244	0
1401-005	3-lp CL	155-010000	0	SS-316	404.39	427.14	0.00260	0
1401-006	3-lp CL	160-010000	0	SS-316	403.74	427.23	0.00268	0
1701-001	3-lp CLd	165-010000	0	SS-316	387.63	410.68	0.00289	0
1701-002	3-lp CLd	170-010000	0	SS-316	374.28	396.24	0.00301	0
1701-003	3-lp CLd	175-010000	0	SS-316	220.51	227.33	0.19865	0
1701-004	3-lp CLd	180-010000	0	SS-316	221.3	248.48	0.02020	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	227.75	225.45	0.02195	0.03749
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	232.52	248.39	0.07121	0.00533
2001-001	1-lp HL	200-010000	0	SS-316	228.43	234.51	0.37481	0
2001-002	1-lp HL	205-010000	0	SS-316	228.26	234.35	0.37898	0
2001-003	1-lp HL	210-010000	0	SS-316	305.89	327.7	0.00454	0
2001-004	1-lp HL	215-010000	0	SS-316	227.65	235.41	0.37915	0
2251-001	sngl tube	225-010000	630-010000	alloy690	226.18	226.18	5.09920	0.02764
2251-002	sngl tube	225-020000	630-020000	alloy690	225.73	225.74	0.37372	0.02752
2251-003	sngl tube	225-030000	630-030000	alloy690	225.29	225.29	2.93960	0.02738
2251-004	sngl tube	225-040000	630-040000	alloy690	224.84	224.83	2.32360	0.02740
2251-005	sngl tube	225-050000	630-050000	alloy690	224.26	224.26	2.24920	0.02989
2251-006	sngl tube	225-060000	630-060000	alloy690	223.41	223.42	2.14590	0.03038
2251-007	sngl tube	225-070000	630-070000	alloy690	222.44	222.46	0.38600	0.03059
2251-008	sngl tube	225-080000	632-010000	alloy690	221.44	221.44	4.19720	0.02277
2251-009	sngl tube	225-090000	634-010000	alloy690	220.51	220.56	0.38857	0.03348
2251-010	sngl tube	225-100000	636-010000	alloy690	219.9	220.07	0.39057	0.04443
2251-011	sngl tube	225-110000	637-010000	alloy690	219.65	219.99	0.39775	0.05109
2251-012	sngl tube	225-120000	635-010000	alloy690	218.82	218.88	0.40399	0.03632
2251-013	sngl tube	225-130000	633-010000	alloy690	218.37	218.41	0.40732	0.03208
2251-014	sngl tube	225-140000	631-070000	alloy690	217.94	217.96	0.40870	0.02806

Table CLSt4-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	217.52	217.54	0.41013	0.02771
2251-016	sngl tube	225-160000	631-050000	alloy690	217.15	217.17	0.41174	0.02744
2251-017	sngl tube	225-170000	631-040000	alloy690	216.87	216.88	0.41314	0.02537
2251-018	sngl tube	225-180000	631-030000	alloy690	216.65	216.66	0.41419	0.02512
2251-019	sngl tube	225-190000	631-020000	alloy690	216.42	216.44	0.41524	0.02488
2251-020	sngl tube	225-200000	631-010000	alloy690	216.2	216.21	0.41559	0.02464
2401-001	1-lp CL suc	235-010000	0	SS-316	213.9	222.04	0.44243	0
2401-002	1-lp CL suc	240-010000	0	SS-316	213.41	224.71	0.44507	0
2401-003	1-lp CL suc	245-010000	0	SS-316	212.84	219.1	0.45516	0
2401-004	1-lp CL suc	250-010000	0	SS-316	213.25	238.22	0.44550	0
2401-005	1-lp CL suc	255-010000	0	SS-316	213.69	216.12	0.68837	0
2401-006	1-lp CL suc	260-010000	0	SS-316	206.39	214.49	0.16798	0
2701-001	1-lp CL dis	265-010000	0	SS-316	220.38	227.08	0.27043	0
2701-002	1-lp CL dis	270-010000	0	SS-316	218.39	225.36	0.25008	0
2701-003	1-lp CL dis	275-010000	0	SS-316	218.06	225.39	0.25648	0
2701-004	1-lp CL dis	280-010000	0	SS-316	220.99	228.64	0.03222	0
101-001	RPV head	94-010000	0	alloy600	551.27	559.98	0.00034	0
101-002	RPV head	90-010000	0	SA-508	465.18	480.53	0.00028	0
102-001	RPV head flange	90-010000	0	alloy600	483.32	562.33	0.00029	0
103-001	RPV nozzle	10-010000	0	alloy600	527.43	552.4	0.00046	0
103-002	RPV nozzle	12-010000	0	alloy600	449.96	544.76	0.00849	0
104-001	RPV int shell	12-010000	0	alloy600	437.79	521.65	0.00960	0
104-002	RPV int shell	14-010000	0	alloy600	232.64	367.33	0.16810	0
104-003	RPV int shell	16-010000	0	alloy600	241.6	367.69	0.16701	0
105-001	RPV lower shell	16-010000	0	alloy600	241.09	344.9	0.15331	0
105-002	RPV lower shell	18-010000	0	alloy600	246.28	348.21	0.15134	0
106-001	RPV lower hd	18-010000	0	alloy600	226.55	266.6	0.04776	0
106-002	RPV lower hd	20-010000	0	SA-508	247.4	271.03	0.10327	0
201-001	core barrel	10-010000	86-010000	SS-316	439.73	441.79	0.00046	0.00032
201-002	core barrel	12-010000	84-010000	SS-316	221.46	228.91	0.03500	0.05048
201-003	core barrel	14-010000	80-040000	SS-316	210.83	229.58	0.03421	0.64175

Table CLSt4-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	211.1	231.12	0.03461	0.43014
201-005	core barrel	16-010000	80-020000	SS-316	214.03	230.85	0.03411	0.29309
201-006	core barrel	16-010000	80-010000	SS-316	214.04	230.74	0.03411	0.25471
202-001	low sup plate	22-010000	0	SS-316	215.55	217.89	0.02442	0
203-001	fl dis dvce	22-010000	0	SS-316	211.55	211.79	0.01921	0
204-001	HR	24-010000	80-010000	SS-316	219.62	231.02	0.04866	0.25471
204-002	HR	26-010000	80-010000	SS-316	221.6	231.08	0.04731	0.25471
204-003	HR	28-010000	80-010000	SS-316	224.88	231.19	0.04596	0.25471
204-004	HR	30-010000	80-010000	SS-316	228.14	231.3	0.04453	0.25471
204-005	HR	32-010000	80-010000	SS-316	232.32	231.42	0.03804	0.25471
204-006	HR	34-010000	80-010000	SS-316	235.12	231.45	0.05152	0.25471
204-007	HR	36-010000	80-020000	SS-316	235.15	231.46	0.51916	0.29309
204-008	HR	38-010000	80-020000	SS-316	234.79	231.45	0.06347	0.29309
204-009	HR	40-010000	80-020000	SS-316	234.42	231.44	0.08155	0.29309
204-010	HR	42-010000	80-020000	SS-316	234.08	231.43	0.09907	0.29309
204-011	HR	44-010000	80-020000	SS-316	233.75	231.42	0.11529	0.29309
204-012	HR	46-010000	80-020000	SS-316	233.45	231.41	0.12998	0.29309
204-013	HR	48-010000	80-020000	SS-316	233.17	231.4	0.14279	0.29309
204-014	HR	50-010000	80-030000	SS-316	232.89	231.56	0.15583	0.45015
204-015	HR	52-010000	80-030000	SS-316	232.63	231.55	0.16415	0.44990
204-016	HR	54-010000	80-030000	SS-316	232.38	231.55	0.17671	0.44964
204-017	HR	56-010000	80-030000	SS-316	232.14	231.54	0.18039	0.44940
204-018	HR	58-010000	80-030000	SS-316	231.92	231.54	0.17378	0.44918
204-019	HR	60-010000	80-030000	SS-316	231.69	231.54	0.17995	0.44896
204-020	HR	62-010000	80-040000	SS-316	231.4	229.91	0.14847	0.37981
204-021	HR	64-010000	80-040000	SS-316	231.18	229.9	2.13470	0.37979
204-022	HR	66-010000	80-040000	SS-316	230.96	229.9	0.20566	0.37979
204-023	HR	68-010000	80-040000	SS-316	230.74	229.9	0.21843	0.37976
204-024	HR	70-010000	80-040000	SS-316	230.54	229.9	0.23090	1.96040
204-025	HR	72-010000	80-040000	SS-316	230.37	229.9	0.22987	1.64000
204-026	HR	74-010000	80-040000	SS-316	230.21	229.9	0.20087	1.49950
204-027	HR	76-010000	80-040000	SS-316	230.08	229.9	0.20673	1.41120

Table CLSt4-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	229.74	229.89	0.23157	1.26410
205-001	UPR core plt	84-010000	0	SS-316	229.31	229.54	0.05129	0
206-001	LMP	84-010000	0	SS-316	229.19	229.27	0.05105	0
206-002	LMP	86-010000	0	SS-316	392.17	392.44	0.00030	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	487.25	482.8	0.00033	0.00029
208-001	CRGA	84-010000	0	SS-316	229.16	229.22	0.05098	0
208-002	CRGA	86-010000	0	SS-316	354.72	354.88	0.00028	0
208-003	CRGA	92-010000	0	SS-316	268.96	268.95	0.00013	0
4001-001	pzr srg	400-010000	0	SA-508	514.99	516.1	0.00142	0
4101-001	pzr srg	410-010000	0	SA-508	638.13	640.1	0.00020	0
4101-002	pzr srg	410-020000	0	SA-508	645.4	646.7	0.00018	0
4101-003	pzr srg	410-030000	0	SA-508	648.61	649.44	0.00016	0
4101-004	pzr srg	410-040000	0	SA-508	651.36	651.9	0.00015	0
4101-005	pzr srg	410-050000	0	SA-508	652.47	652.82	0.00013	0
4101-006	pzr srg	410-060000	0	SA-508	652.76	652.98	0.00012	0
4201-001	prz hd	408-010000	0	SA-508	630.53	633.1	0.00023	0
4301-001	prz upr hd	412-010000	0	SA-508	654.17	654.27	0.00010	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLSt4-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	**Fuel Cladding**	**0**	**24-010000**	**cladding**		**215.38**		**0.03672**
301-002	**Fuel Cladding**	**0**	**26-010000**	**cladding**		**224.83**		**0.03695**
301-003	**Fuel Cladding**	**0**	**28-010000**	**cladding**		**234.35**		**0.03728**
301-004	**Fuel Cladding**	**0**	**30-010000**	**cladding**		**241.12**		**0.04033**
301-005	**Fuel Cladding**	**0**	**32-010000**	**cladding**		**243.90**		**0.05378**
301-006	**Fuel Cladding**	**0**	**34-010000**	**cladding**		**245.79**		**0.07521**
301-007	**Fuel Cladding**	**0**	**36-010000**	**cladding**		**246.29**		**0.08782**
301-008	**Fuel Cladding**	**0**	**38-010000**	**cladding**		**246.29**		**0.09551**
301-009	**Fuel Cladding**	**0**	**40-010000**	**cladding**		**246.19**		**0.10165**
301-010	**Fuel Cladding**	**0**	**42-010000**	**cladding**		**246.02**		**0.10615**
301-011	**Fuel Cladding**	**0**	**44-010000**	**cladding**		**245.78**		**0.10900**
301-012	**Fuel Cladding**	**0**	**46-010000**	**cladding**		**245.49**		**0.11007**
301-013	**Fuel Cladding**	**0**	**48-010000**	**cladding**		**245.18**		**0.10958**
301-014	**Fuel Cladding**	**0**	**50-010000**	**cladding**		**244.83**		**0.10937**
301-015	**Fuel Cladding**	**0**	**52-010000**	**cladding**		**244.42**		**0.10461**

Table CLSt4-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	**Fuel Cladding**	**0**	**54-010000**	**cladding**		**244.20**		**0.10816**
301-017	**Fuel Cladding**	**0**	**56-010000**	**cladding**		**243.94**		**0.09505**
301-018	**Fuel Cladding**	**0**	**58-010000**	**cladding**		**243.37**		**0.07796**
301-019	**Fuel Cladding**	**0**	**60-010000**	**cladding**		**242.97**		**0.07759**
301-020	**Fuel Cladding**	**0**	**62-010000**	**cladding**		**242.32**		**0.05669**
301-021	**Fuel Cladding**	**0**	**64-010000**	**cladding**		**241.38**		**0.06054**
301-022	**Fuel Cladding**	**0**	**66-010000**	**cladding**		**240.69**		**0.07454**
301-023	**Fuel Cladding**	**0**	**68-010000**	**cladding**		**239.61**		**0.06872**
301-024	**Fuel Cladding**	**0**	**70-010000**	**cladding**		**238.11**		**0.07255**
301-025	**Fuel Cladding**	**0**	**72-010000**	**cladding**		**236.32**		**0.06068**
301-026	**Fuel Cladding**	**0**	**74-010000**	**cladding**		**234.71**		**0.03129**
301-027	**Fuel Cladding**	**0**	**76-010000**	**cladding**		**232.95**		**0.03113**
301-028	**Fuel Cladding**	**0**	**78-010000**	**cladding**		**229.56**		**0.06064**

Table CLSt4-3: CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 4000 seconds)

Table CLSt4-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.969	228.3	231
105-010000	112.108	0.976	228.2	233.8
110-010000	90.692	0.991	228.2	236.7
115-010000	99.530	0.987	228.1	233.9
117-010000	34.487	0.844	227.4	232.3
120-010000	605.616	0.772	226.8	229.4
121-010000	90.006	0.950	226.8	226.8
125-010000	104.546	0.942	226.7	227
125-020000	104.546	0.930	226.6	227.2
125-030000	104.546	0.889	226.4	227.5
125-040000	104.546	0.893	225.8	225.8
125-050000	156.828	0.873	225.4	225.4
125-060000	209.092	0.947	224.2	224.2
125-070000	209.092	0.976	224.2	224.2
125-080000	209.092	0.999	224.1	236.7
125-090000	209.092	0.996	224	241.5
125-100000	182.764	0.997	224	257.2
125-110000	182.764	0.997	223.9	262.7
125-120000	209.092	0.997	223.9	249.2
125-130000	209.092	0.997	223.8	240.9
125-140000	209.092	0.997	223.7	235.8
125-150000	209.092	0.997	223.6	234.2
125-160000	156.828	0.997	223.6	233.8
125-170000	104.546	0.997	223.5	233.3
125-180000	104.546	0.997	223.5	233.2
125-190000	104.546	0.997	223.4	233.2
125-200000	104.546	0.997	223.4	233.3
129-010000	90.006	0.999	223.4	236.6
130-010000	605.616	0.996	223.4	226.6
132-010000	34.487	0.998	223.2	225.6
135-010000	51.857	0.998	223.2	225.7
140-010000	61.586	0.999	223.2	225.9

Table CLSt4-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	0.998	223.1	226
150-010000	102.591	0.999	223.2	227.8
155-010000	108.946	0.998	223.1	226.7
160-010000	413.100	0.998	222.2	223.6
165-010000	105.120	0.997	221.5	222.4
170-010000	105.120	0.997	221.5	224
175-010000	135.835	0.928	148.4	223.6
180-010000	116.691	0.974	152.9	223.2
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.883	228.2	228.4
205-010000	37.369	0.920	228	228.3
210-010000	30.231	0.990	228	229.2
215-010000	33.177	0.992	227.3	227.3
217-010000	11.496	0.996	226.9	226.8
220-010000	201.872	0.909	226.9	228.3
221-010000	30.002	0.921	226.6	226.7
225-010000	34.849	0.925	226.2	226.2
225-020000	34.849	0.927	225.7	225.7
225-030000	34.849	0.928	225.3	225.3
225-040000	34.849	0.927	224.8	224.8
225-050000	52.276	0.926	224.3	224.3
225-060000	69.697	0.926	223.4	223.4
225-070000	69.697	0.927	222.4	222.4
225-080000	69.697	0.929	221.4	221.4
225-090000	69.697	0.930	220.5	220.4
225-100000	60.921	0.943	219.6	219.6
225-110000	60.921	0.958	219.1	219.1
225-120000	69.697	0.962	218.7	218.7
225-130000	69.697	0.962	218.3	218.3
225-140000	69.697	0.963	217.9	217.9
225-150000	69.697	0.963	217.5	217.5

Table CLSt4-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	0.963	217.1	217.1
225-170000	34.849	0.964	216.8	216.8
225-180000	34.849	0.964	216.6	216.6
225-190000	34.849	0.964	216.4	216.4
225-200000	34.849	0.965	216.2	216.2
229-010000	30.002	0.960	215.9	215.9
230-010000	201.872	0.984	216	216.5
232-010000	11.496	0.995	215.1	215
235-010000	17.286	0.995	213.6	213.5
240-010000	20.529	0.996	213	213
245-010000	38.892	0.995	212.6	212.6
250-010000	34.197	0.997	212.4	211.7
255-010000	36.315	0.899	196.3	217.7
260-010000	137.700	0.724	192.4	210.8
265-010000	35.040	0.981	156.2	220.6
270-010000	35.040	0.849	155	221
275-010000	45.278	0.785	150.4	221.7
280-010000	38.897	0.965	204.4	221.9
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.996	204.2	224.3
12-010000	184.160	0.948	200.2	223.2
14-010000	366.488	0.000	201.7	226.9
16-010000	414.895	0.000	205.3	236
18-010000	120.792	0.000	206.4	241.4
20-010000	212.629	0.000	207.8	243.7
22-010000	315.096	0.000	209.3	240.8
24-010000	45.438	0.000	214.8	238.7
26-010000	48.504	0.000	217.4	238.1
28-010000	48.504	0.000	221.3	237.3
30-010000	35.789	0.000	225.1	236.7

Table CLSt4-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
32-010000	35.789	0.000	229.7	236.2
34-010000	35.789	0.035	234.2	235.7
36-010000	35.789	0.170	235	235.2
38-010000	35.789	0.272	234.8	234.7
40-010000	35.789	0.342	234.4	234.4
42-010000	35.789	0.400	234	234
44-010000	35.789	0.450	233.7	233.7
46-010000	35.789	0.495	233.4	233.4
48-010000	35.789	0.529	233.1	233.1
50-010000	35.789	0.562	232.8	232.8
52-010000	35.789	0.568	232.6	232.5
54-010000	33.109	0.564	232.3	232.3
56-010000	33.109	0.593	232.1	232.1
58-010000	33.109	0.600	231.9	231.8
60-010000	33.109	0.581	231.6	231.7
62-010000	33.109	0.612	231.4	231.4
64-010000	33.109	0.608	231.2	231.2
66-010000	33.109	0.586	230.9	231
68-010000	33.109	0.637	230.7	230.7
70-010000	33.109	0.614	230.5	230.5
72-010000	21.064	0.639	230.3	230.2
74-010000	21.064	0.629	230.1	230
76-010000	21.051	0.672	229.9	229.9
78-010000	86.638	0.638	229.6	229.6
80-010000	5.964	0.000	231.1	239.1
80-020000	4.483	0.001	231.2	235.5
80-030000	4.951	0.324	230.7	232.9
80-040000	5.894	0.588	229.8	229.9
82-010000	28.768	0.000	220.9	236.9
82-020000	21.625	0.000	225.6	233.1
82-030000	23.882	0.543	229.4	231.4
82-040000	28.430	1.000	229.6	230.4
84-010000	573.893	0.862	228.8	228.7

Table CLSt4-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
86-010000	276.840	0.999	228.3	230.1
88-010000	202.853	1.000	228.3	229
88-020000	83.659	1.000	228.3	228.8
88-030000	182.966	0.846	228.8	229.3
90-010000	120.233	1.000	228.3	286.8
92-010000	505.835	1.000	228.3	287.4
94-010000	267.973	1.000	228.3	257
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.3815759	1	228.3	417.7
408-010000	161.11546	1	228.4	477.8
410-010000	395.597757	1	228.3	526.2
410-020000	395.597757	1	228.3	562.1
410-030000	395.597757	1	228.3	588.3
410-040000	395.597757	1	228.3	607.3
410-050000	395.597757	1	228.3	620.7
410-060000	395.597757	1	228.3	630.2
412-010000	161.11546	1	228.3	639.2

Table CLSt4-4: CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 4000 seconds)

Table CLSt4-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	62.5	510.55
1552-001	sg sep	61.8	463.14
1601-001	sg sep	62.9	539.94
1621-001	sg sep	63.4	572.99
1641-001	sg sep	62.9	540.01
1641-002	sg sep	63.2	558.9
1801-001	1-lp sg sh	58.5	296.87
1801-002	1-lp sg sh	58.0	275.15
1801-003	1-lp sg sh	57.4	253.01
1802-001	1-lp sg sh	60.6	375.52
1803-001	1-lp sg sh	64.9	541.2
1803-002	1-lp sg sh	62.9	463.51
1803-003	1-lp sg sh	64.0	507.98
1803-004	1-lp sg sh	65.4	560.63
1803-005	1-lp sg sh	65.7	574.91
1804-001	1-lp sg sh	65.7	575.16
1806-001	1-lp sg sh	62.9	462.3
1807-001	1-lp sg sh	57.6	226.96
1807-002	1-lp sg sh	57.5	216.7
1808-001	1-lp sg sh	57.6	226.78
1808-002	1-lp sg sh	57.6	226.32
1808-003	1-lp sg sh	57.6	225.87
1808-004	1-lp sg sh	57.6	225.43
1808-005	1-lp sg sh	57.6	224.62
1808-006	1-lp sg sh	57.6	223.67
1808-007	1-lp sg sh	57.6	222.3
1808-008	1-lp sg sh	57.6	221.98
1808-009	1-lp sg sh	57.6	223.02
1808-010	1-lp sg sh	57.5	217.1
1808-011	1-lp sg sh	57.5	217.36
1808-012	1-lp sg sh	57.5	217.61
1808-013	1-lp sg sh	57.5	218.01

Table CLSt4-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	57.5	218.43
1808-015	1-lp sg sh	57.5	218.91
1808-016	1-lp sg sh	57.5	219.66
1808-017	1-lp sg sh	57.5	220.56
1808-018	1-lp sg sh	57.6	224.57
6241-001	DC sleeve	57.8	236.44
6241-002	DC sleeve	58.1	251.05
6241-003	DC sleeve	58.4	265.8
6241-004	DC sleeve	60.1	363.07
6301-001	hot DC	57.8	233.37
6301-002	hot DC	57.8	233.13
6301-003	hot DC	57.8	232.89
6301-004	hot DC	57.8	232.65
6301-005	hot DC	57.9	241.02
6301-006	hot DC	57.9	240.61
6301-007	hot DC	57.9	240.14
6301-008	hot DC	58.1	248.86
6301-009	hot DC	58.1	248.7
6301-010	hot DC	58.9	294.98
6301-011	hot DC	60.8	401.33
6311-001	cold DC	57.6	222.71
6311-002	cold DC	57.6	222.84
6311-003	cold DC	57.6	222.97
6311-004	cold DC	57.6	223.09
6311-005	cold DC	57.7	228.79
6311-006	cold DC	57.7	228.99
6311-007	cold DC	57.7	229.22
6311-008	cold DC	57.8	235.07
6311-009	cold DC	57.8	235.51
6311-010	cold DC	59.1	303.72
6311-011	cold DC	60.9	408.8

Table CLSt4-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1543-001	sg sep	62.9	540.01
1553-001	sg sep	62.5	509.08
1602-001	sg sep	63.2	557.78
1622-001	sg sep	63.6	586.29
1642-001	sg sep	63.2	557.86
1642-002	sg sep	63.3	565.86
1901-001	3-lp sg sh	60.6	375.32
1901-002	3-lp sg sh	59.6	337.85
1901-003	3-lp sg sh	58.5	294.13
1902-001	3-lp sg sh	62.5	448.6
1903-001	3-lp sg sh	65.3	558.49
1903-002	3-lp sg sh	64.1	508.81
1903-003	3-lp sg sh	64.8	537
1903-004	3-lp sg sh	65.6	569.26
1903-005	3-lp sg sh	66.1	589.33
1904-001	3-lp sg sh	66.1	589.86
1906-001	3-lp sg sh	64.3	519.24
1907-001	3-lp sg sh	57.7	227.58
1907-002	3-lp sg sh	58.2	256.68
1908-001	3-lp sg sh	57.7	227.7
1908-002	3-lp sg sh	57.7	227.51
1908-003	3-lp sg sh	57.7	227.35
1908-004	3-lp sg sh	57.7	227.52
1908-005	3-lp sg sh	57.7	227.61
1908-006	3-lp sg sh	57.7	230.92
1908-007	3-lp sg sh	58.6	280.56
1908-008	3-lp sg sh	59.2	309.69
1908-009	3-lp sg sh	60.4	379.23
1908-010	3-lp sg sh	58.2	257.35
1908-011	3-lp sg sh	58.2	257.19
1908-012	3-lp sg sh	58.2	257.47
1908-013	3-lp sg sh	58.3	259.96
1908-014	3-lp sg sh	58.3	260.91

Table CLSt4-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-015	3-lp sg sh	58.4	264.92
1908-016	3-lp sg sh	58.7	281.9
1908-017	3-lp sg sh	59.2	309.2
1908-018	3-lp sg sh	60.4	379.24
7241-001	3-lp DC sleeve	58.5	270.49
7241-002	3-lp DC sleeve	59.0	301.37
7241-003	3-lp DC sleeve	59.7	340.55
7241-004	3-lp DC sleeve	61.4	441.5
7301-001	3-lp DC	58.0	244.3
7301-002	3-lp DC	58.0	244.21
7301-003	3-lp DC	58.0	244.11
7301-004	3-lp DC	58.0	244.03
7301-005	3-lp DC	58.4	265.06
7301-006	3-lp DC	58.4	264.95
7301-007	3-lp DC	58.4	265.6
7301-008	3-lp DC	59.2	311.73
7301-009	3-lp DC	59.5	325.88
7301-010	3-lp DC	60.8	401.88
7301-011	3-lp DC	61.8	468.39
7311-001	3-lp DC cold	58.4	265.29
7311-002	3-lp DC cold	58.4	265.19
7311-003	3-lp DC cold	58.4	265.12
7311-004	3-lp DC cold	58.4	265.28
7311-005	3-lp DC cold	58.6	276.87
7311-006	3-lp DC cold	58.6	277.35
7311-007	3-lp DC cold	58.6	279.34
7311-008	3-lp DC cold	59.1	305.99
7311-009	3-lp DC cold	59.4	319.53
7311-010	3-lp DC cold	61.1	419.58
7311-011	3-lp DC cold	62.1	485.38

Table CLSt4-5: CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 4000 seconds)

Table CLSt4-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	511.39	509.71	0.05153	0.06108
1552-001	sg sep	640-010000	623-010000	SS-316	464.23	462.08	0.05170	0.06195
1601-001	sg sep	642-010000	645-010000	SS-316	540.41	539.48	0.03341	0.03695
1621-001	sg sep	660-010000	660-010000	SS-316	572.3	572.3	0.00253	0.00253
1641-001	sg sep	645-010000	642-010000	SS-316	539.75	540.26	0.03938	0.03454
1641-002	sg sep	650-010000	650-010000	SS-316	558.9	558.9	0.86203	0.86198
1801-001	1-lp sg sh	625-020000	0	SA-508	288.79	301.06	0.03897	0
1801-002	1-lp sg sh	625-030000	0	SA-508	268.98	278.36	0.03479	0
1801-003	1-lp sg sh	625-040000	0	SA-508	249.08	255.05	0.02943	0
1802-001	1-lp sg sh	625-010000	0	SA-508	364.57	381.31	0.05154	0
1803-001	1-lp sg sh	645-010000	0	SA-508	539.62	542.04	0.03824	0
1803-002	1-lp sg sh	623-010000	0	SA-508	459.14	465.84	0.04901	0
1803-003	1-lp sg sh	639-010000	0	SA-508	506.18	508.95	0.03963	0
1803-004	1-lp sg sh	650-010000	0	SA-508	558.99	561.49	1.03090	0
1803-005	1-lp sg sh	660-010000	0	SA-508	574.34	575.2	0.00278	0
1804-001	1-lp sg sh	670-010000	0	SA-508	574.69	575.41	0.00263	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	459.62	464.89	0.04678	0.04997
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	226.93	226.93	0.02125	0.02125
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	216.69	216.69	0.01818	0.01818
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	226.69	226.69	0.02346	0.02346
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	226.24	226.24	0.02343	0.02343
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	225.78	225.78	0.02340	0.02340
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	225.35	225.35	0.02339	0.02339
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	224.54	224.54	0.02333	0.02333
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	223.59	223.59	0.02324	0.02324
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	222.22	222.22	0.02308	0.02308
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	221.9	221.9	0.02311	0.02311
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	222.94	222.94	0.02353	0.02353
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	217.06	217.06	0.02031	0.02031
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	217.31	217.31	0.02057	0.02057
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	217.56	217.56	0.02081	0.02081

Table CLSt4-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	217.96	217.96	0.02111	0.02111
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	218.38	218.38	0.02147	0.02147
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	218.84	218.84	0.02185	0.02185
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	219.59	219.59	0.02232	0.02232
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	220.49	220.49	0.02275	0.02275
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	224.48	224.48	0.02387	0.02387
6241-001	DC sleeve	624-040000	625-040000	SS-316	235.47	237.37	0.02421	0.02386
6241-002	DC sleeve	624-030000	625-030000	SS-316	249.31	252.73	0.02945	0.02945
6241-003	DC sleeve	624-020000	625-020000	SS-316	263.01	268.48	0.03453	0.03510
6241-004	DC sleeve	624-010000	625-010000	SS-316	364.82	361.25	0.04157	0.04279
6301-001	hot DC	630-010000	625-040000	SS-316	231.67	235.02	0.03948	0.02834
6301-002	hot DC	630-020000	625-040000	SS-316	231.38	234.84	0.03972	0.02864
6301-003	hot DC	630-030000	625-040000	SS-316	231.07	234.66	0.03996	0.02894
6301-004	hot DC	630-040000	625-040000	SS-316	230.77	234.49	0.04019	0.02923
6301-005	hot DC	630-050000	625-030000	SS-316	236.34	245.62	0.04814	0.03962
6301-006	hot DC	630-060000	625-030000	SS-316	235.8	245.35	0.04834	0.03994
6301-007	hot DC	630-070000	625-030000	SS-316	235.17	245.03	0.04856	0.04031
6301-008	hot DC	632-010000	625-020000	SS-316	240.39	257.2	0.05390	0.04879
6301-009	hot DC	634-010000	625-020000	SS-316	240.18	257.1	0.05394	0.04889
6301-010	hot DC	636-010000	625-010000	SS-316	268.98	320.55	0.06778	0.08912
6301-011	hot DC	638-010000	625-010000	SS-316	418.87	383.72	0.07161	0.08151
6311-001	cold DC	631-010000	624-040000	SS-316	221.2	224.19	0.03780	0.02680
6311-002	cold DC	631-020000	624-040000	SS-316	221.36	224.29	0.03767	0.02664
6311-003	cold DC	631-030000	624-040000	SS-316	221.51	224.39	0.03754	0.02647
6311-004	cold DC	631-040000	624-040000	SS-316	221.67	224.48	0.03741	0.02630
6311-005	cold DC	631-050000	624-030000	SS-316	225.77	231.76	0.04349	0.03365
6311-006	cold DC	631-060000	624-030000	SS-316	226.03	231.91	0.04337	0.03346
6311-007	cold DC	631-070000	624-030000	SS-316	226.32	232.07	0.04322	0.03324
6311-008	cold DC	633-010000	624-020000	SS-316	230.51	239.55	0.04738	0.03884
6311-009	cold DC	635-010000	624-020000	SS-316	231.08	239.85	0.04717	0.03850
6311-010	cold DC	637-010000	624-010000	SS-316	274.77	332.15	0.06951	0.09250
6311-011	cold DC	638-010000	624-010000	SS-316	423.2	394.32	0.06821	0.07765

Table CLSt4-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	540.99	539.04	0.05641	0.06647
1553-001	sg sep	740-010000	723-010000	SS-316	510.7	507.48	0.06212	0.07390
1602-001	sg sep	742-010000	745-010000	SS-316	558.35	557.23	0.03640	0.04031
1622-001	sg sep	760-010000	760-010000	SS-316	585.05	585.05	0.00303	0.00303
1642-001	sg sep	745-010000	742-010000	SS-316	557.54	558.17	0.04303	0.03779
1642-002	sg sep	750-010000	750-010000	SS-316	565.86	565.86	2.24340	2.23890
1901-001	3-lp sg sh	725-020000	0	SA-508	361.05	382.69	0.05152	0
1901-002	3-lp sg sh	725-030000	0	SA-508	321.3	346.42	0.05012	0
1901-003	3-lp sg sh	725-040000	0	SA-508	280.22	301.49	0.04383	0
1902-001	3-lp sg sh	725-010000	0	SA-508	434.68	455.84	0.06041	0
1903-001	3-lp sg sh	745-010000	0	SA-508	557.06	559.24	0.03866	0
1903-002	3-lp sg sh	723-010000	0	SA-508	503.26	511.67	0.05610	0
1903-003	3-lp sg sh	739-010000	0	SA-508	535.14	537.96	0.04245	0
1903-004	3-lp sg sh	750-010000	0	SA-508	566.71	570.61	0.12324	0
1903-005	3-lp sg sh	760-010000	0	SA-508	588.29	589.88	0.00334	0
1904-001	3-lp sg sh	770-010000	0	SA-508	588.98	590.33	0.00315	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	518.74	519.62	0.03425	0.02771
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	227.54	227.54	0.02198	0.02198
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	256.53	256.53	0.03062	0.03062
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	227.6	227.6	0.02425	0.02425
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	227.42	227.42	0.02427	0.02427
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	227.25	227.25	0.02438	0.02438
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	227.41	227.41	0.02484	0.02484
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	227.45	227.45	0.02677	0.02677
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	230.37	230.37	0.03352	0.03352
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	280.02	280.02	0.03717	0.03717
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	309.15	309.15	0.03896	0.03896
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	378.83	378.83	0.03953	0.03953
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	256.98	256.98	0.03338	0.03338
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	256.83	256.83	0.03325	0.03325
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	257.12	257.12	0.03313	0.03313

Table CLSt4-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	259.62	259.62	0.03309	0.03309
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	260.57	260.57	0.03315	0.03315
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	264.57	264.57	0.03358	0.03358
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	281.38	281.38	0.03717	0.03717
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	308.65	308.65	0.03901	0.03901
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	378.85	378.85	0.03945	0.03945
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	271.62	269.21	0.02640	0.02887
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	300.75	301.78	0.02678	0.01708
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	339.15	341.71	0.03441	0.02977
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	446.76	436.16	0.06454	0.06391
7301-001	3-lp DC	730-010000	725-040000	SS-316	239.3	249.19	0.04901	0.04061
7301-002	3-lp DC	730-020000	725-040000	SS-316	239.18	249.13	0.04905	0.04068
7301-003	3-lp DC	730-030000	725-040000	SS-316	239.06	249.07	0.04909	0.04075
7301-004	3-lp DC	730-040000	725-040000	SS-316	238.94	249.01	0.04913	0.04082
7301-005	3-lp DC	730-050000	725-030000	SS-316	252.44	277.44	0.05900	0.05732
7301-006	3-lp DC	730-060000	725-030000	SS-316	252.28	277.38	0.05902	0.05738
7301-007	3-lp DC	730-070000	725-030000	SS-316	253.19	277.77	0.05894	0.05703
7301-008	3-lp DC	732-010000	725-020000	SS-316	300.19	322.97	0.06310	0.06010
7301-009	3-lp DC	734-010000	725-020000	SS-316	319.85	331.67	0.05784	0.04952
7301-010	3-lp DC	736-010000	725-010000	SS-316	393.48	410.08	0.06637	0.07111
7301-011	3-lp DC	738-010000	725-010000	SS-316	485.7	451.02	0.07669	0.08939
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	262.58	267.8	0.04596	0.03395
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	262.46	267.73	0.04601	0.03407
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	262.38	267.68	0.04606	0.03415
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	262.59	267.8	0.04592	0.03396
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	271.1	282.43	0.05339	0.04491
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	271.74	282.74	0.05317	0.04451
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	274.41	284.06	0.05219	0.04279
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	297.19	314.49	0.05998	0.05422
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	315.6	323.19	0.05330	0.04219
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	404.11	434.75	0.07502	0.08733
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	495.59	475.11	0.06725	0.07916

Table CLSt4-6: CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 4000 seconds)

Table CLSt4-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	487.61	559.58
623-010000	366.645	0.000	455.46	559.59
624-010000	155.893	0.000	369.93	559.86
624-020000	43.006	0.000	253	560.27
624-030000	59.135	0.000	241.98	560.78
624-040000	43.006	0.000	230.55	561.29
625-010000	180.020	0.000	355.65	559.86
625-020000	73.345	0.000	277.32	560.27
625-030000	100.851	0.000	259.18	560.78
625-040000	73.345	0.000	241.72	561.29
630-010000	70.116	0.000	226.49	561.45
630-020000	70.116	0.000	226.05	561.34
630-030000	70.116	0.000	225.59	561.24
630-040000	70.116	0.000	225.14	561.13
630-050000	105.180	0.000	224.7	560.99
630-060000	140.232	0.000	223.89	560.8
630-070000	140.232	0.000	222.94	560.58
631-010000	70.116	0.000	216.43	561.46
631-020000	70.116	0.000	216.66	561.35
631-030000	70.116	0.000	216.9	561.24
631-040000	70.116	0.000	217.13	561.13
631-050000	105.180	0.000	217.5	560.99
631-060000	140.232	0.000	217.89	560.8
631-070000	140.232	0.000	218.32	560.58
632-010000	140.232	0.000	221.59	560.36
633-010000	140.232	0.000	219.02	560.36
634-010000	140.232	0.000	221.27	560.15
635-010000	140.232	0.000	219.88	560.15
636-010000	86.672	0.000	222.26	559.97
637-010000	86.672	0.000	223.77	559.97
638-010000	609.522	0.000	450.74	559.78
639-010000	635.282	0.000	504.37	559.44

Table CLSt4-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.000	472.32	559.57
641-010000	117.514	0.000	517.9	559.43
642-010000	320.019	0.000	542.13	559.23
645-010000	1075.296	0.000	537.95	559.24
650-010000	830.204	0.767	552.12	559.05
660-010000	703.676	1.000	559.06	565.94
670-010000	400.000	1.000	559.05	567.36
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	534.61	566.36
723-010000	1099.935	0.000	499	566.36
724-010000	467.679	0.000	457.39	566.6
724-020000	129.019	0.000	333.16	566.98
724-030000	177.404	0.000	296.8	567.45
724-040000	129.019	0.000	275.98	567.93
725-010000	540.019	0.000	424.85	566.61
725-020000	220.035	0.000	345.63	566.99
725-030000	302.553	0.000	303.02	567.46
725-040000	220.035	0.000	263.23	567.95
730-010000	210.349	0.000	227.04	568.1
730-020000	210.349	0.000	226.86	567.99
730-030000	210.349	0.000	226.68	567.89
730-040000	210.349	0.000	226.5	567.79
730-050000	315.541	0.000	226.6	567.66
730-060000	420.697	0.000	226.35	567.47
730-070000	420.697	0.000	227.7	567.26
731-010000	210.349	0.000	255.05	568.09
731-020000	210.349	0.000	254.88	567.98
731-030000	210.349	0.000	254.76	567.88
731-040000	210.349	0.000	255.08	567.78
731-050000	315.541	0.000	257.63	567.65
731-060000	420.697	0.000	258.58	567.47

Table CLSt4-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.000	262.53	567.26
732-010000	420.697	0.000	277.26	567.06
733-010000	420.697	0.000	278.64	567.06
734-010000	420.697	0.000	306.38	566.85
735-010000	420.697	0.000	305.86	566.85
736-010000	260.017	0.000	376.73	566.69
737-010000	260.017	0.000	376.76	566.69
738-010000	1828.567	0.000	516.04	566.52
739-010000	1905.846	0.000	533.25	566.22
740-010000	375.926	0.000	520.99	566.34
741-010000	352.543	0.000	547.97	566.21
742-010000	960.056	0.000	560.26	566.02
745-010000	3225.888	0.000	555.51	566.04
750-010000	2490.612	0.442	565.39	565.84
760-010000	2111.028	1.000	565.82	575.62
770-010000	1200.000	1.000	565.81	577.83

Table CLSt5-1: CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

Table CLSt5-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	57.6	223.62
1001-002	3-lp HL	57.6	223.99
1001-003	3-lp HL	57.6	225.33
1001-004	3-lp HL	57.6	222.74
1081-001	1-lp sg ch	61.4	437.46
1081-002	1-lp sg ch	61.5	445.05
1082-001	3-lp sg ch	57.9	240.32
1082-002	3-lp sg ch	62.7	524.55
1091-001	1-lp sg ch	57.6	219.34
1091-002	1-lp sg ch	57.5	213.14
1092-001	3-lp sg ch	57.6	217.89
1092-002	3-lp sg ch	57.6	215.98
1251-001	3-lp SG tube	57.6	217.96
1251-002	3-lp SG tube	57.6	217.62
1251-003	3-lp SG tube	57.6	217.27
1251-004	3-lp SG tube	57.6	216.84
1251-005	3-lp SG tube	57.6	216.43
1251-006	3-lp SG tube	57.6	215.94
1251-007	3-lp SG tube	57.6	215.99
1251-008	3-lp SG tube	57.6	216.23
1251-009	3-lp SG tube	57.6	215.85
1251-010	3-lp SG tube	57.7	220.74
1251-011	3-lp SG tube	57.7	220.9
1251-012	3-lp SG tube	57.6	215.78
1251-013	3-lp SG tube	57.6	215.73
1251-014	3-lp SG tube	57.6	215.73
1251-015	3-lp SG tube	57.6	215.73
1251-016	3-lp SG tube	57.6	215.73
1251-017	3-lp SG tube	57.6	215.74
1251-018	3-lp SG tube	57.6	215.74
1251-019	3-lp SG tube	57.6	215.74
1251-020	3-lp SG tube	57.6	215.74

Table CLSt5-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	57.6	226.03
1401-002	3-lp CL	57.7	228
1401-003	3-lp CL	57.6	224.62
1401-004	3-lp CL	57.6	225.07
1401-005	3-lp CL	57.5	220.39
1401-006	3-lp CL	57.6	222.73
1701-001	3-lp CLd	57.5	216.78
1701-002	3-lp CLd	57.4	215.35
1701-003	3-lp CLd	57.4	211.59
1701-004	3-lp CLd	57.4	212.44
1905-001	3-lp sg sh	57.6	219.27
1805-001	1-lp sg sh	57.6	218.08
2001-001	1-lp HL	57.6	222.94
2001-002	1-lp HL	57.6	222.82
2001-003	1-lp HL	57.6	223.05
2001-004	1-lp HL	57.6	222.55
2251-001	sngl tube	57.6	219.47
2251-002	sngl tube	57.6	219.2
2251-003	sngl tube	57.6	218.9
2251-004	sngl tube	57.6	218.58
2251-005	sngl tube	57.6	218.26
2251-006	sngl tube	57.6	217.7
2251-007	sngl tube	57.6	216.57
2251-008	sngl tube	57.6	215.55
2251-009	sngl tube	57.6	215.07
2251-010	sngl tube	57.5	214.6
2251-011	sngl tube	57.5	214.23
2251-012	sngl tube	57.5	213.39
2251-013	sngl tube	57.5	213.03
2251-014	sngl tube	57.5	212.95
2251-015	sngl tube	57.5	212.92

Table CLSt5-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-016	sngl tube	57.5	212.89
2251-017	sngl tube	57.5	212.87
2251-018	sngl tube	57.5	212.84
2251-019	sngl tube	57.5	212.82
2251-020	sngl tube	57.5	212.8
2401-001	1-lp CL suc	57.4	212.92
2401-002	1-lp CL suc	57.4	212.55
2401-003	1-lp CL suc	57.4	212.25
2401-004	1-lp CL suc	57.4	212.13
2401-005	1-lp CL suc	57.2	205.49
2401-006	1-lp CL suc	56.6	172.18
2701-001	1-lp CL dis	57.0	193.2
2701-002	1-lp CL dis	57.0	193.93
2701-003	1-lp CL dis	57.0	194.45
2701-004	1-lp CL dis	57.2	205.4
101-001	RPV head	63.3	548
101-002	RPV head	63.0	467.68
102-001	RPV head flange	63.1	530.67
103-001	RPV nozzle	61.9	451.22
103-002	RPV nozzle	60.4	342.48
104-001	RPV int shell	59.2	263.2
104-002	RPV int shell	58.5	216.81
104-003	RPV int shell	58.6	219.69
105-001	RPV lower shell	58.4	211.04
105-002	RPV lower shell	58.5	213.49
106-001	RPV lower hd	58.2	192.24
106-002	RPV lower hd	55.9	195.17
201-001	core barrel	57.5	217.73
201-002	core barrel	57.5	216.73
201-003	core barrel	57.3	208.24
201-004	core barrel	57.3	208.11
201-005	core barrel	57.3	208.75

Table CLSt5-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
201-006	core barrel	57.3	208.19
202-001	low sup plate	57.0	194.01
203-001	fl dis dvce	57.0	193.68
204-001	HR	57.4	212.55
204-002	HR	57.4	213.46
204-003	HR	57.4	214.88
204-004	HR	57.4	216.32
204-005	HR	57.5	217.91
204-006	HR	57.5	219.59
204-007	HR	57.5	221.84
204-008	HR	57.6	223.46
204-009	HR	57.6	224.87
204-010	HR	57.6	225.69
204-011	HR	57.6	226.03
204-012	HR	57.6	226.11
204-013	HR	57.6	225.97
204-014	HR	57.6	225.87
204-015	HR	57.6	225.69
204-016	HR	57.6	225.53
204-017	HR	57.6	225.37
204-018	HR	57.6	225.23
204-019	HR	57.6	225.08
204-020	HR	57.6	224.94
204-021	HR	57.6	224.8
204-022	HR	57.6	224.66
204-023	HR	57.6	224.52
204-024	HR	57.6	224.38
204-025	HR	57.6	224.27
204-026	HR	57.6	224.18
204-027	HR	57.6	224.08
204-028	HR	57.6	223.87
205-001	UPR core plt	57.6	222.9
206-001	LMP	57.6	222.52

Table CLSt5-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
206-002	LMP	58.4	268.29
207-001	UPR sup plt	61.8	464.42
208-001	CRGA	57.6	222.39
208-002	CRGA	57.6	222.26
208-003	CRGA	58.4	266.5
4001-001	pzr srg	62.7	456.36
4101-001	pzr srg	67.3	634.79
4101-002	pzr srg	67.5	643.37
4101-003	pzr srg	67.6	647.42
4101-004	pzr srg	67.7	650.67
4101-005	pzr srg	67.7	652.1
4101-006	pzr srg	67.7	652.58
4201-001	prz hd	67.0	623.7
4301-001	prz upr hd	67.7	654.06
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	40.7	197.47
301-002	FUEL ASS	40.9	206.41
301-003	FUEL ASS	41.0	213.44
301-004	FUEL ASS	41.1	219.88
301-005	FUEL ASS	41.2	225.9
301-006	FUEL ASS	41.3	231.91
301-007	FUEL ASS	41.4	237.9
301-008	FUEL ASS	41.4	243.61
301-009	FUEL ASS	41.5	248.06
301-010	FUEL ASS	41.5	250.52
301-011	FUEL ASS	41.6	252.11
301-012	FUEL ASS	41.6	252.79
301-013	FUEL ASS	41.6	252.5
301-014	FUEL ASS	41.6	251.86
301-015	FUEL ASS	41.5	250.84

Table CLSt5-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-016	FUEL ASS	41.5	249.66
301-017	FUEL ASS	41.5	248.43
301-018	FUEL ASS	41.5	247.05
301-019	FUEL ASS	41.5	245.44
301-020	FUEL ASS	41.4	243.77
301-021	FUEL ASS	41.4	241.42
301-022	FUEL ASS	41.4	238.75
301-023	FUEL ASS	41.3	235.93
301-024	FUEL ASS	41.3	233.2
301-025	FUEL ASS	41.2	231
301-026	FUEL ASS	41.2	229.36
301-027	FUEL ASS	41.2	227.68
301-028	FUEL ASS	41.1	222.69
301-001	**Fuel Cladding**	**29.1**	**197.47**
301-002	**Fuel Cladding**	**29.2**	**206.41**
301-003	**Fuel Cladding**	**29.2**	**213.44**
301-004	**Fuel Cladding**	**29.2**	**219.88**
301-005	**Fuel Cladding**	**29.3**	**225.9**
301-006	**Fuel Cladding**	**29.3**	**231.91**
301-007	**Fuel Cladding**	**29.3**	**237.9**
301-008	**Fuel Cladding**	**29.3**	**243.61**
301-009	**Fuel Cladding**	**29.4**	**248.06**
301-010	**Fuel Cladding**	**29.4**	**250.52**
301-011	**Fuel Cladding**	**29.4**	**252.11**
301-012	**Fuel Cladding**	**29.4**	**252.79**
301-013	**Fuel Cladding**	**29.4**	**252.5**
301-014	**Fuel Cladding**	**29.4**	**251.86**
301-015	**Fuel Cladding**	**29.4**	**250.84**
301-016	**Fuel Cladding**	**29.4**	**249.66**
301-017	**Fuel Cladding**	**29.4**	**248.43**
301-018	**Fuel Cladding**	**29.4**	**247.05**
301-019	**Fuel Cladding**	**29.4**	**245.44**
301-020	**Fuel Cladding**	**29.4**	**243.77**

Table CLSt5-1 - CLPS LOCA Case 14BLT: RCS Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-021	**Fuel Cladding**	**29.3**	**241.42**
301-022	**Fuel Cladding**	**29.3**	**238.75**
301-023	**Fuel Cladding**	**29.3**	**235.93**
301-024	**Fuel Cladding**	**29.3**	**233.2**
301-025	**Fuel Cladding**	**29.3**	**231**
301-026	**Fuel Cladding**	**29.3**	**229.36**
301-027	**Fuel Cladding**	**29.3**	**227.68**
301-028	**Fuel Cladding**	**29.3**	**222.69**

Table CLSt5-2: CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

Table CLSt5-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	221.47	224.49	0.07147	0
1001-002	3-lp HL	105-010000	0	SS-316	221.4	225.09	0.07687	0
1001-003	3-lp HL	110-010000	0	SS-316	221.66	227.02	0.06850	0
1001-004	3-lp HL	115-010000	0	SS-316	220.88	223.46	0.37969	0
1081-001	1-lp sg ch	220-010000	0	SS-316	402.1	454.03	0.00553	0
1081-002	1-lp sg ch	230-010000	0	SS-316	428.78	453.58	0.00081	0
1082-001	3-lp sg ch	120-010000	0	SS-316	223.16	249.2	0.05826	0
1082-002	3-lp sg ch	130-010000	0	SS-316	515.92	528.73	0.00029	0
1091-001	1-lp sg ch	221-010000	0	alloy690	219.34	219.3	0.26215	0
1091-002	1-lp sg ch	229-010000	0	alloy690	213.02	213.19	0.17108	0
1092-001	3-lp sg ch	121-010000	0	alloy690	218.07	217.84	0.10855	0
1092-002	3-lp sg ch	129-010000	0	alloy690	215.95	215.99	0.06213	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	217.95	217.96	0.08164	0.02423
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	217.64	217.6	1.69610	0.02619
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	217.33	217.24	1.12620	0.02848
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	216.89	216.82	1.03430	0.03125
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	216.43	216.44	0.09003	0.03301
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	215.92	215.96	0.10202	0.03461
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	215.99	216	0.00081	0.03069
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	216.23	216.23	0.00079	0.02382
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	215.84	215.86	0.03136	0.02934
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	220.73	220.75	0.00080	0.03080
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	220.89	220.91	0.00081	0.03118
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	215.77	215.78	0.03392	0.02840
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	215.73	215.74	0.04190	0.02335
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	215.72	215.73	0.04693	0.02034
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	215.73	215.73	0.05119	0.01999
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	215.73	215.73	0.05397	0.01952
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	215.73	215.74	0.05560	0.01926
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	215.73	215.74	0.05709	0.01926
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	215.74	215.74	0.05840	0.01926

Table CLSt5-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	215.74	215.74	0.06017	0.01926
1401-001	3-lp CL	135-010000	0	SS-316	219.5	229.73	0.00096	0
1401-002	3-lp CL	140-010000	0	SS-316	220.55	232.17	0.00092	0
1401-003	3-lp CL	145-010000	0	SS-316	219.05	227.8	0.00103	0
1401-004	3-lp CL	150-010000	0	SS-316	219.31	228.36	0.00099	0
1401-005	3-lp CL	155-010000	0	SS-316	217.15	222.23	0.06578	0
1401-006	3-lp CL	160-010000	0	SS-316	216.68	225.98	0.05409	0
1701-001	3-lp CLd	165-010000	0	SS-316	214.78	218.05	0.24169	0
1701-002	3-lp CLd	170-010000	0	SS-316	214.03	216.29	0.15643	0
1701-003	3-lp CLd	175-010000	0	SS-316	211.15	212.1	0.12050	0
1701-004	3-lp CLd	180-010000	0	SS-316	212.07	212.95	0.13692	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	219.71	217.89	0.03379	0.01731
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	220.35	214.84	0.04798	0.04273
2001-001	1-lp HL	200-010000	0	SS-316	220.92	223.74	0.26858	0
2001-002	1-lp HL	205-010000	0	SS-316	220.77	223.62	0.26542	0
2001-003	1-lp HL	210-010000	0	SS-316	220.81	223.95	0.24818	0
2001-004	1-lp HL	215-010000	0	SS-316	220.59	223.31	0.26986	0
2251-001	sngl tube	225-010000	630-010000	alloy690	219.4	219.51	0.25818	0.01927
2251-002	sngl tube	225-020000	630-020000	alloy690	219.16	219.22	0.25573	0.02170
2251-003	sngl tube	225-030000	630-030000	alloy690	218.88	218.91	0.23476	0.02527
2251-004	sngl tube	225-040000	630-040000	alloy690	218.57	218.58	0.22970	0.02714
2251-005	sngl tube	225-050000	630-050000	alloy690	218.28	218.23	0.22865	0.02964
2251-006	sngl tube	225-060000	630-060000	alloy690	217.84	217.62	0.79578	0.03043
2251-007	sngl tube	225-070000	630-070000	alloy690	216.66	216.52	0.79378	0.02292
2251-008	sngl tube	225-080000	632-010000	alloy690	215.41	215.63	0.36360	0.02490
2251-009	sngl tube	225-090000	634-010000	alloy690	214.98	215.12	0.20383	0.02004
2251-010	sngl tube	225-100000	636-010000	alloy690	214.53	214.65	0.19441	0.03564
2251-011	sngl tube	225-110000	637-010000	alloy690	214.16	214.3	0.27351	0.04340
2251-012	sngl tube	225-120000	635-010000	alloy690	213.47	213.36	0.79357	0.03540
2251-013	sngl tube	225-130000	633-010000	alloy690	213.05	213.03	0.97346	0.03521
2251-014	sngl tube	225-140000	631-070000	alloy690	212.96	212.96	1.35040	0.03394

Table CLSt5-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	212.93	212.92	1.45300	0.03322
2251-016	sngl tube	225-160000	631-050000	alloy690	212.91	212.89	1.53070	0.03261
2251-017	sngl tube	225-170000	631-040000	alloy690	212.89	212.86	1.68790	0.03200
2251-018	sngl tube	225-180000	631-030000	alloy690	212.87	212.84	1.67140	0.03161
2251-019	sngl tube	225-190000	631-020000	alloy690	212.85	212.82	1.66280	0.03125
2251-020	sngl tube	225-200000	631-010000	alloy690	212.83	212.79	1.64730	0.03099
2401-001	1-lp CL suc	235-010000	0	SS-316	212.6	213.04	0.25870	0
2401-002	1-lp CL suc	240-010000	0	SS-316	212.36	212.62	0.25913	0
2401-003	1-lp CL suc	245-010000	0	SS-316	212.15	212.28	0.27001	0
2401-004	1-lp CL suc	250-010000	0	SS-316	212.08	212.15	0.25837	0
2401-005	1-lp CL suc	255-010000	0	SS-316	205.12	206.01	0.24767	0
2401-006	1-lp CL suc	260-010000	0	SS-316	173.56	171.84	0.06879	0
2701-001	1-lp CL dis	265-010000	0	SS-316	195.87	193.98	0.10675	0
2701-002	1-lp CL dis	270-010000	0	SS-316	198.79	193.93	0.11362	0
2701-003	1-lp CL dis	275-010000	0	SS-316	195.32	195.31	0.14011	0
2701-004	1-lp CL dis	280-010000	0	SS-316	204.86	206.42	0.15372	0
101-001	RPV head	94-010000	0	alloy600	542.66	550.72	0.00030	0
101-002	RPV head	90-010000	0	SA-508	463.98	469.63	0.00026	0
102-001	RPV head flange	90-010000	0	alloy600	507.67	545.78	0.00028	0
103-001	RPV nozzle	10-010000	0	alloy600	302.78	516.01	0.00022	0
103-002	RPV nozzle	12-010000	0	alloy600	224.63	403.73	0.02146	0
104-001	RPV int shell	12-010000	0	alloy600	217.39	288.01	0.00916	0
104-002	RPV int shell	14-010000	0	alloy600	195.63	228.2	0.03066	0
104-003	RPV int shell	16-010000	0	alloy600	197.26	231.3	0.03232	0
105-001	RPV lower shell	16-010000	0	alloy600	195.28	219.2	0.02934	0
105-002	RPV lower shell	18-010000	0	alloy600	197.05	221.72	0.03162	0
106-001	RPV lower hd	18-010000	0	alloy600	190.43	193.17	0.01784	0
106-002	RPV lower hd	20-010000	0	SA-508	192.25	196.5	0.03102	0
201-001	core barrel	10-010000	86-010000	SS-316	215.44	221.19	0.00345	0.00299
201-002	core barrel	12-010000	84-010000	SS-316	213.9	221.79	0.38221	0.74466
201-003	core barrel	14-010000	80-040000	SS-316	194.6	222.98	0.02903	0.43235

Table CLSt5-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	194.55	222.39	0.02896	0.31563
201-005	core barrel	16-010000	80-020000	SS-316	195.39	222.08	0.02952	0.27457
201-006	core barrel	16-010000	80-010000	SS-316	195.2	221.21	0.02921	0.27397
202-001	low sup plate	22-010000	0	SS-316	193.72	194.1	0.01896	0
203-001	fl dis dvce	22-010000	0	SS-316	193.52	193.78	0.01858	0
204-001	HR	24-010000	80-010000	SS-316	202.26	221.64	0.04236	0.27397
204-002	HR	26-010000	80-010000	SS-316	203.37	221.7	0.04462	0.27397
204-003	HR	28-010000	80-010000	SS-316	205.49	221.79	0.04658	0.27397
204-004	HR	30-010000	80-010000	SS-316	207.77	221.89	0.04767	0.27397
204-005	HR	32-010000	80-010000	SS-316	210.43	221.99	0.04812	0.27397
204-006	HR	34-010000	80-010000	SS-316	213.37	222.09	0.04810	0.27397
204-007	HR	36-010000	80-020000	SS-316	216.59	223.07	0.04791	0.27457
204-008	HR	38-010000	80-020000	SS-316	219.67	223.17	0.04666	0.27457
204-009	HR	40-010000	80-020000	SS-316	222.69	223.26	0.04406	0.27457
204-010	HR	42-010000	80-020000	SS-316	225.23	223.3	0.02850	0.27457
204-011	HR	44-010000	80-020000	SS-316	227	223.32	0.03907	0.27457
204-012	HR	46-010000	80-020000	SS-316	228.08	223.32	0.28429	0.27457
204-013	HR	48-010000	80-020000	SS-316	227.79	223.31	0.66040	0.27457
204-014	HR	50-010000	80-030000	SS-316	227.39	223.52	0.06332	0.31563
204-015	HR	52-010000	80-030000	SS-316	227.01	223.51	0.08178	0.31563
204-016	HR	54-010000	80-030000	SS-316	226.66	223.5	0.10009	0.31563
204-017	HR	56-010000	80-030000	SS-316	226.35	223.49	0.10718	0.31563
204-018	HR	58-010000	80-030000	SS-316	226.04	223.48	0.08640	0.31563
204-019	HR	60-010000	80-030000	SS-316	225.74	223.48	0.07704	0.31563
204-020	HR	62-010000	80-040000	SS-316	225.44	223.83	0.08657	0.52715
204-021	HR	64-010000	80-040000	SS-316	225.16	223.82	0.11532	0.52538
204-022	HR	66-010000	80-040000	SS-316	224.86	223.82	0.09859	0.52370
204-023	HR	68-010000	80-040000	SS-316	224.57	223.81	0.16549	0.52199
204-024	HR	70-010000	80-040000	SS-316	224.29	223.81	0.16358	0.52040
204-025	HR	72-010000	80-040000	SS-316	224.07	223.8	0.13862	0.51923
204-026	HR	74-010000	80-040000	SS-316	223.86	223.8	0.18713	0.51816
204-027	HR	76-010000	80-040000	SS-316	223.64	223.8	0.21256	0.51717

Table CLSt5-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	223.22	223.79	0.18143	0.51487
205-001	UPR core plt	84-010000	0	SS-316	222.66	223.12	0.03764	0
206-001	LMP	84-010000	0	SS-316	222.52	222.53	0.03711	0
206-002	LMP	86-010000	0	SS-316	268.24	268.31	0.00020	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	461.13	463.54	0.00030	0.00027
208-001	CRGA	84-010000	0	SS-316	222.42	222.37	0.03670	0
208-002	CRGA	86-010000	0	SS-316	222.19	222.31	0.01331	0
208-003	CRGA	92-010000	0	SS-316	266.5	266.5	0.00002	0
4001-001	pzr srg	400-010000	0	SA-508	455.76	456.59	0.00080	0
4101-001	pzr srg	410-010000	0	SA-508	633.43	635.5	0.00020	0
4101-002	pzr srg	410-020000	0	SA-508	642.51	643.81	0.00017	0
4101-003	pzr srg	410-030000	0	SA-508	646.89	647.69	0.00015	0
4101-004	pzr srg	410-040000	0	SA-508	650.34	650.83	0.00014	0
4101-005	pzr srg	410-050000	0	SA-508	651.9	652.2	0.00012	0
4101-006	pzr srg	410-060000	0	SA-508	652.46	652.63	0.00011	0
4201-001	prz hd	408-010000	0	SA-508	621.82	624.67	0.00023	0
4301-001	prz upr hd	412-010000	0	SA-508	654.01	654.08	0.00009	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLSt5-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	**Fuel Cladding**	**0**	**24-010000**	**cladding**		**197.92**		**0.02657**
301-002	**Fuel Cladding**	**0**	**26-010000**	**cladding**		**203.18**		**0.02665**
301-003	**Fuel Cladding**	**0**	**28-010000**	**cladding**		**208.43**		**0.02676**
301-004	**Fuel Cladding**	**0**	**30-010000**	**cladding**		**213.43**		**0.02689**
301-005	**Fuel Cladding**	**0**	**32-010000**	**cladding**		**218.33**		**0.02708**
301-006	**Fuel Cladding**	**0**	**34-010000**	**cladding**		**223.41**		**0.02729**
301-007	**Fuel Cladding**	**0**	**36-010000**	**cladding**		**228.53**		**0.02753**
301-008	**Fuel Cladding**	**0**	**38-010000**	**cladding**		**233.51**		**0.02778**
301-009	**Fuel Cladding**	**0**	**40-010000**	**cladding**		**237.03**		**0.03430**
301-010	**Fuel Cladding**	**0**	**42-010000**	**cladding**		**238.74**		**0.04738**
301-011	**Fuel Cladding**	**0**	**44-010000**	**cladding**		**239.84**		**0.06523**
301-012	**Fuel Cladding**	**0**	**46-010000**	**cladding**		**240.08**		**0.07531**
301-013	**Fuel Cladding**	**0**	**48-010000**	**cladding**		**239.8**		**0.07540**
301-014	**Fuel Cladding**	**0**	**50-010000**	**cladding**		**239.47**		**0.07229**
301-015	**Fuel Cladding**	**0**	**52-010000**	**cladding**		**238.82**		**0.07780**

Table CLSt5-2 – CLPS LOCA Case 14BLT: RCS Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	**Fuel Cladding**	**0**	**54-010000**	**cladding**		**238.02**		**0.08220**
301-017	**Fuel Cladding**	**0**	**56-010000**	**cladding**		**237.57**		**0.07790**
301-018	**Fuel Cladding**	**0**	**58-010000**	**cladding**		**237.25**		**0.05402**
301-019	**Fuel Cladding**	**0**	**60-010000**	**cladding**		**236.55**		**0.04927**
301-020	**Fuel Cladding**	**0**	**62-010000**	**cladding**		**235.85**		**0.04439**
301-021	**Fuel Cladding**	**0**	**64-010000**	**cladding**		**234.96**		**0.03223**
301-022	**Fuel Cladding**	**0**	**66-010000**	**cladding**		**232.65**		**0.02391**
301-023	**Fuel Cladding**	**0**	**68-010000**	**cladding**		**230.26**		**0.06958**
301-024	**Fuel Cladding**	**0**	**70-010000**	**cladding**		**228.48**		**0.06580**
301-025	**Fuel Cladding**	**0**	**72-010000**	**cladding**		**226.92**		**0.03637**
301-026	**Fuel Cladding**	**0**	**74-010000**	**cladding**		**225.92**		**0.11126**
301-027	**Fuel Cladding**	**0**	**76-010000**	**cladding**		**224.83**		**0.15178**
301-028	**Fuel Cladding**	**0**	**78-010000**	**cladding**		**222.85**		**0.07631**

Table CLSt5-3: CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 10000 seconds)

Table CLSt5-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.932	221.3	221.4
105-010000	112.108	0.949	221.1	221.7
110-010000	90.692	0.982	221.1	223.9
115-010000	99.530	0.719	220	223.6
117-010000	34.487	0.737	218.9	218.7
120-010000	605.616	0.677	218.8	218.5
121-010000	90.006	0.914	218	218
125-010000	104.546	0.891	217.9	217.9
125-020000	104.546	0.881	217.7	217.7
125-030000	104.546	0.872	217.4	217.8
125-040000	104.546	0.866	216.9	217.7
125-050000	156.828	0.880	216.3	216.3
125-060000	209.092	0.934	215.7	215.7
125-070000	209.092	1.000	215.7	215.7
125-080000	209.092	1.000	215.6	215.7
125-090000	209.092	0.999	215.6	215.6
125-100000	182.764	1.000	215.6	218.7
125-110000	182.764	1.000	215.6	218.4
125-120000	209.092	1.000	215.6	216.2
125-130000	209.092	1.000	215.6	215.8
125-140000	209.092	0.999	215.6	215.7
125-150000	209.092	0.999	215.6	215.8
125-160000	156.828	0.999	215.6	215.8
125-170000	104.546	0.999	215.6	216
125-180000	104.546	0.999	215.6	216.1
125-190000	104.546	0.999	215.6	216.3
125-200000	104.546	0.999	215.7	216.4
129-010000	90.006	1.000	215.7	216.4
130-010000	605.616	1.000	215.7	217.6
132-010000	34.487	1.000	215.6	217.5
135-010000	51.857	1.000	215.6	217.4
140-010000	61.586	1.000	215.6	217.2

Table CLSt5-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	215.6	217
150-010000	102.591	1.000	215.7	217.2
155-010000	108.946	0.999	215.6	216.9
160-010000	413.100	1.000	215.5	215.5
165-010000	105.120	1.000	215.6	215.3
170-010000	105.120	0.878	135.9	215.6
175-010000	135.835	0.907	125.9	215.5
180-010000	116.691	0.896	154.3	216
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.886	221.1	220.9
205-010000	37.369	0.922	220.8	220.8
210-010000	30.231	0.974	220.7	220.8
215-010000	33.177	0.971	220.2	220.1
217-010000	11.496	0.963	219.9	219.9
220-010000	201.872	0.819	219.8	220.4
221-010000	30.002	0.918	219	219
225-010000	34.849	0.948	218.9	218.9
225-020000	34.849	0.943	218.8	218.8
225-030000	34.849	0.945	218.6	218.6
225-040000	34.849	0.930	218.5	218.5
225-050000	52.276	0.951	218.3	218.2
225-060000	69.697	0.942	218.1	218
225-070000	69.697	0.909	216.9	216.9
225-080000	69.697	0.897	214.8	214.8
225-090000	69.697	0.963	214.2	214.2
225-100000	60.921	0.980	214	214.1
225-110000	60.921	0.978	214	214
225-120000	69.697	0.931	213.7	214.1
225-130000	69.697	0.873	213.1	213.4
225-140000	69.697	0.904	213	213.1
225-150000	69.697	0.962	213	213.1

Table CLSt5-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	0.984	212.9	213.1
225-170000	34.849	0.989	212.9	213.1
225-180000	34.849	0.990	212.9	213.1
225-190000	34.849	0.990	212.9	213.1
225-200000	34.849	0.984	212.9	213.1
229-010000	30.002	0.998	212.9	212.9
230-010000	201.872	0.979	212.7	213.3
232-010000	11.496	0.987	212.6	212.6
235-010000	17.286	0.989	212.5	212.4
240-010000	20.529	0.991	212.3	212.3
245-010000	38.892	0.989	212.1	212.1
250-010000	34.197	0.993	212.1	211.9
255-010000	36.315	0.865	173	212.4
260-010000	137.700	0.611	157.7	209.6
265-010000	35.040	0.943	139.2	208.8
270-010000	35.040	0.798	138.6	205.7
275-010000	45.278	0.596	138.7	208.7
280-010000	38.897	0.620	156.2	215.5
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.999	197.6	217.9
12-010000	184.160	0.779	169.9	218.9
14-010000	366.488	0.000	187.5	222.1
16-010000	414.895	0.000	188	232
18-010000	120.792	0.000	188.4	237.8
20-010000	212.629	0.000	188.6	240.3
22-010000	315.096	0.000	191.1	237.2
24-010000	45.438	0.000	199	235
26-010000	48.504	0.000	199.4	234.3
28-010000	48.504	0.000	200.9	233.6
30-010000	35.789	0.000	202.8	232.9

Table CLSt5-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
32-010000	35.789	0.000	205.4	232.3
34-010000	35.789	0.000	208.5	231.8
36-010000	35.789	0.000	212	231.2
38-010000	35.789	0.000	215.6	230.6
40-010000	35.789	0.000	219.6	230
42-010000	35.789	0.000	223.8	229.4
44-010000	35.789	0.035	227.4	228.9
46-010000	35.789	0.173	228.2	228.3
48-010000	35.789	0.270	227.9	227.8
50-010000	35.789	0.340	227.4	227.4
52-010000	35.789	0.382	227	227
54-010000	33.109	0.425	226.7	226.6
56-010000	33.109	0.429	226.3	226.3
58-010000	33.109	0.450	226	225.9
60-010000	33.109	0.466	225.7	225.6
62-010000	33.109	0.453	225.3	225.3
64-010000	33.109	0.495	225.1	225
66-010000	33.109	0.459	224.8	224.7
68-010000	33.109	0.524	224.4	224.3
70-010000	33.109	0.544	224.3	224.1
72-010000	21.064	0.512	224.1	224
74-010000	21.064	0.452	223.8	223.8
76-010000	21.051	0.408	223.5	223.6
78-010000	86.638	0.642	223	223.1
80-010000	5.964	0.000	222.3	235.8
80-020000	4.483	0.000	223.1	231.9
80-030000	4.951	0.001	223.4	228.1
80-040000	5.894	0.324	223.5	224.3
82-010000	28.768	0.000	206.8	233.5
82-020000	21.625	0.000	214.5	229.4
82-030000	23.882	0.000	220	225.5
82-040000	28.430	0.840	222.9	222.9
84-010000	573.893	0.751	222.1	221.9

Table CLSt5-3 – CLPS LOCA Case 14BLT: RCS Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
86-010000	276.840	0.999	221.1	221.4
88-010000	202.853	1.000	221	223.2
88-020000	83.659	1.000	221	221.3
88-030000	182.966	0.747	220.9	222.4
90-010000	120.233	1.000	221	268.4
92-010000	505.835	1.000	221	266.6
94-010000	267.973	1.000	221	265.4
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	1.000	221	385.2
408-010000	161.115	1.000	221	436.7
410-010000	395.598	1.000	221	505.9
410-020000	395.598	1.000	221	550.1
410-030000	395.598	1.000	221	580.4
410-040000	395.598	1.000	221	602.2
410-050000	395.598	1.000	221	617.7
410-060000	395.598	1.000	221	628.7
412-010000	161.115	1.000	221	638.9

Table CLSt5-4: CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 10000 seconds)

Table CLSt5-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	62.4	506.59
1552-001	sg sep	61.5	446.30
1601-001	sg sep	62.9	537.17
1621-001	sg sep	63.4	571.07
1641-001	sg sep	62.9	537.20
1641-002	sg sep	63.1	553.57
1801-001	1-lp sg sh	57.0	239.48
1801-002	1-lp sg sh	56.8	232.50
1801-003	1-lp sg sh	56.7	227.92
1802-001	1-lp sg sh	59.5	333.84
1803-001	1-lp sg sh	64.8	536.88
1803-002	1-lp sg sh	62.5	448.72
1803-003	1-lp sg sh	63.9	504.43
1803-004	1-lp sg sh	65.2	554.02
1803-005	1-lp sg sh	65.7	572.47
1804-001	1-lp sg sh	65.7	573.28
1806-001	1-lp sg sh	61.8	420.94
1807-001	1-lp sg sh	57.5	220.42
1807-002	1-lp sg sh	57.4	213.57
1808-001	1-lp sg sh	57.5	220.17
1808-002	1-lp sg sh	57.5	219.72
1808-003	1-lp sg sh	57.5	219.28
1808-004	1-lp sg sh	57.5	218.76
1808-005	1-lp sg sh	57.5	218.02
1808-006	1-lp sg sh	57.5	217.18
1808-007	1-lp sg sh	57.4	216.10
1808-008	1-lp sg sh	57.4	215.64
1808-009	1-lp sg sh	57.4	215.90
1808-010	1-lp sg sh	57.4	213.71
1808-011	1-lp sg sh	57.4	213.77
1808-012	1-lp sg sh	57.4	213.84
1808-013	1-lp sg sh	57.4	213.94

Table CLSt5-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	57.4	214.05
1808-015	1-lp sg sh	57.4	214.17
1808-016	1-lp sg sh	57.4	214.40
1808-017	1-lp sg sh	57.4	214.77
1808-018	1-lp sg sh	57.5	216.90
6241-001	DC sleeve	57.6	222.31
6241-002	DC sleeve	57.6	225.38
6241-003	DC sleeve	57.7	231.13
6241-004	DC sleeve	59.5	325.73
6301-001	hot DC	57.6	222.24
6301-002	hot DC	57.6	221.99
6301-003	hot DC	57.5	221.73
6301-004	hot DC	57.5	221.49
6301-005	hot DC	57.6	222.71
6301-006	hot DC	57.6	222.32
6301-007	hot DC	57.5	221.88
6301-008	hot DC	57.6	224.19
6301-009	hot DC	57.6	223.97
6301-010	hot DC	58.6	275.58
6301-011	hot DC	60.0	358.03
6311-001	cold DC	57.4	215.81
6311-002	cold DC	57.4	215.84
6311-003	cold DC	57.4	215.87
6311-004	cold DC	57.4	215.91
6311-005	cold DC	57.5	217.17
6311-006	cold DC	57.5	217.22
6311-007	cold DC	57.5	217.28
6311-008	cold DC	57.5	219.87
6311-009	cold DC	57.5	220.06
6311-010	cold DC	58.5	273.89
6311-011	cold DC	60.0	356.56

Table CLSt5-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1543-001	sg sep	62.8	531.35
1553-001	sg sep	62.0	476.19
1602-001	sg sep	63.1	551.81
1622-001	sg sep	63.6	583.00
1642-001	sg sep	63.1	551.84
1642-002	sg sep	63.2	556.20
1901-001	3-lp sg sh	57.3	250.86
1901-002	3-lp sg sh	57.0	239.15
1901-003	3-lp sg sh	56.8	229.68
1902-001	3-lp sg sh	60.1	357.90
1903-001	3-lp sg sh	65.2	552.10
1903-002	3-lp sg sh	63.3	480.90
1903-003	3-lp sg sh	64.6	529.30
1903-004	3-lp sg sh	65.3	557.59
1903-005	3-lp sg sh	66.0	585.10
1904-001	3-lp sg sh	66.0	586.51
1906-001	3-lp sg sh	62.3	440.78
1907-001	3-lp sg sh	57.5	218.86
1907-002	3-lp sg sh	57.4	215.93
1908-001	3-lp sg sh	57.5	218.76
1908-002	3-lp sg sh	57.5	218.48
1908-003	3-lp sg sh	57.5	218.20
1908-004	3-lp sg sh	57.5	217.89
1908-005	3-lp sg sh	57.5	217.44
1908-006	3-lp sg sh	57.5	217.02
1908-007	3-lp sg sh	57.5	216.73
1908-008	3-lp sg sh	57.4	216.62
1908-009	3-lp sg sh	57.5	220.86
1908-010	3-lp sg sh	57.4	216.09
1908-011	3-lp sg sh	57.4	216.09
1908-012	3-lp sg sh	57.4	216.09
1908-013	3-lp sg sh	57.4	216.12
1908-014	3-lp sg sh	57.4	216.13

Table CLSt5-4 – CLPS LOCA Case 14BLT: SG Metal Stored Energy (t= 10000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-015	3-lp sg sh	57.4	216.14
1908-016	3-lp sg sh	57.4	216.22
1908-017	3-lp sg sh	57.4	216.48
1908-018	3-lp sg sh	57.5	221.07
7241-001	3-lp DC sleeve	57.6	223.30
7241-002	3-lp DC sleeve	57.7	229.27
7241-003	3-lp DC sleeve	57.8	237.35
7241-004	3-lp DC sleeve	59.7	337.94
7301-001	3-lp DC	57.5	221.55
7301-002	3-lp DC	57.5	221.40
7301-003	3-lp DC	57.5	221.25
7301-004	3-lp DC	57.5	221.10
7301-005	3-lp DC	57.6	224.31
7301-006	3-lp DC	57.6	224.09
7301-007	3-lp DC	57.6	223.87
7301-008	3-lp DC	57.7	228.38
7301-009	3-lp DC	57.7	228.33
7301-010	3-lp DC	58.7	283.95
7301-011	3-lp DC	60.2	365.36
7311-001	3-lp DC cold	57.5	217.84
7311-002	3-lp DC cold	57.5	217.83
7311-003	3-lp DC cold	57.5	217.83
7311-004	3-lp DC cold	57.5	217.83
7311-005	3-lp DC cold	57.5	219.88
7311-006	3-lp DC cold	57.5	219.88
7311-007	3-lp DC cold	57.5	219.89
7311-008	3-lp DC cold	57.6	222.99
7311-009	3-lp DC cold	57.6	223.12
7311-010	3-lp DC cold	58.7	282.96
7311-011	3-lp DC cold	60.1	364.73

Table CLSt5-5: CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 10000 seconds)

Table CLSt5-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	506.85	506.34	0.03639	0.04350
1552-001	sg sep	640-010000	623-010000	SS-316	446.34	446.26	0.01863	0.02429
1601-001	sg sep	642-010000	645-010000	SS-316	537.3	537.04	0.02326	0.02553
1621-001	sg sep	660-010000	660-010000	SS-316	570.94	570.94	0.00157	0.00157
1641-001	sg sep	645-010000	642-010000	SS-316	537.13	537.27	0.02696	0.02368
1641-002	sg sep	650-010000	650-010000	SS-316	553.57	553.57	1.52960	1.52930
1801-001	1-lp sg sh	625-020000	0	SA-508	238.17	240.15	0.02145	0
1801-002	1-lp sg sh	625-030000	0	SA-508	231.51	233.01	0.01947	0
1801-003	1-lp sg sh	625-040000	0	SA-508	227.32	228.23	0.01683	0
1802-001	1-lp sg sh	625-010000	0	SA-508	330.96	335.28	0.03511	0
1803-001	1-lp sg sh	645-010000	0	SA-508	536.74	536.95	0.01945	0
1803-002	1-lp sg sh	623-010000	0	SA-508	447.41	449.36	0.03633	0
1803-003	1-lp sg sh	639-010000	0	SA-508	504.33	504.48	0.01878	0
1803-004	1-lp sg sh	650-010000	0	SA-508	553.58	554.24	2.46020	0
1803-005	1-lp sg sh	660-010000	0	SA-508	572.32	572.54	0.00186	0
1804-001	1-lp sg sh	670-010000	0	SA-508	573.17	573.34	0.00172	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	412.77	429.09	0.05814	0.06813
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	220.35	220.35	0.02452	0.02452
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	213.56	213.56	0.01713	0.01713
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	220.06	220.06	0.02553	0.02553
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	219.62	219.62	0.02535	0.02535
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	219.18	219.18	0.02514	0.02514
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	218.67	218.67	0.02489	0.02489
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	217.94	217.94	0.02445	0.02445
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	217.11	217.11	0.02385	0.02385
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	216.04	216.04	0.02277	0.02277
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	215.59	215.59	0.02206	0.02206
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	215.88	215.88	0.01823	0.01823
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	213.69	213.69	0.01873	0.01873
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	213.75	213.75	0.01889	0.01889
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	213.82	213.82	0.01909	0.01909

Table CLSt5-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	213.91	213.91	0.01933	0.01933
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	214.01	214.01	0.01963	0.01963
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	214.14	214.14	0.01993	0.01993
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	214.36	214.36	0.02026	0.02026
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	214.73	214.73	0.02060	0.02060
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	216.86	216.86	0.02101	0.02101
6241-001	DC sleeve	624-040000	625-040000	SS-316	221.9	222.71	0.01833	0.01817
6241-002	DC sleeve	624-030000	625-030000	SS-316	224.9	225.84	0.01924	0.01903
6241-003	DC sleeve	624-020000	625-020000	SS-316	230.64	231.64	0.01946	0.02010
6241-004	DC sleeve	624-010000	625-010000	SS-316	325.5	325.93	0.02259	0.02062
6301-001	hot DC	630-010000	625-040000	SS-316	221.73	222.7	0.03135	0.01821
6301-002	hot DC	630-020000	625-040000	SS-316	221.42	222.49	0.03179	0.01880
6301-003	hot DC	630-030000	625-040000	SS-316	221.13	222.28	0.03218	0.01935
6301-004	hot DC	630-040000	625-040000	SS-316	220.84	222.08	0.03255	0.01986
6301-005	hot DC	630-050000	625-030000	SS-316	221.6	223.75	0.03588	0.02385
6301-006	hot DC	630-060000	625-030000	SS-316	221.13	223.44	0.03630	0.02444
6301-007	hot DC	630-070000	625-030000	SS-316	220.61	223.1	0.03674	0.02507
6301-008	hot DC	632-010000	625-020000	SS-316	221.96	226.37	0.04085	0.03015
6301-009	hot DC	634-010000	625-020000	SS-316	221.69	226.2	0.04098	0.03040
6301-010	hot DC	636-010000	625-010000	SS-316	254.8	296.05	0.06391	0.07979
6301-011	hot DC	638-010000	625-010000	SS-316	368.75	347.27	0.05954	0.06739
6311-001	cold DC	631-010000	624-040000	SS-316	215.32	216.29	0.03008	0.01885
6311-002	cold DC	631-020000	624-040000	SS-316	215.36	216.32	0.03007	0.01877
6311-003	cold DC	631-030000	624-040000	SS-316	215.39	216.34	0.03002	0.01871
6311-004	cold DC	631-040000	624-040000	SS-316	215.43	216.37	0.02997	0.01863
6311-005	cold DC	631-050000	624-030000	SS-316	216.39	217.92	0.03294	0.02162
6311-006	cold DC	631-060000	624-030000	SS-316	216.46	217.96	0.03288	0.02153
6311-007	cold DC	631-070000	624-030000	SS-316	216.53	218.01	0.03280	0.02142
6311-008	cold DC	633-010000	624-020000	SS-316	218.45	221.31	0.03703	0.02664
6311-009	cold DC	635-010000	624-020000	SS-316	218.68	221.45	0.03683	0.02641
6311-010	cold DC	637-010000	624-010000	SS-316	254.06	293.5	0.06339	0.07746
6311-011	cold DC	638-010000	624-010000	SS-316	367.82	345.31	0.06034	0.06691

Table CLSt5-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	531.79	530.91	0.0441149	0.05267
1553-001	sg sep	740-010000	723-010000	SS-316	476.52	475.86	0.0369057	0.04579
1602-001	sg sep	742-010000	745-010000	SS-316	551.98	551.65	0.0252189	0.02828
1622-001	sg sep	760-010000	760-010000	SS-316	582.76	582.76	0.0017357	0.00174
1642-001	sg sep	745-010000	742-010000	SS-316	551.75	551.92	0.0297515	0.02589
1642-002	sg sep	750-010000	750-010000	SS-316	556.2	556.2	0.00396012	0.00396
1901-001	3-lp sg sh	725-020000	0	SA-508	248.13	252.28	0.0266468	0
1901-002	3-lp sg sh	725-030000	0	SA-508	237.3	240.11	0.0233903	0
1901-003	3-lp sg sh	725-040000	0	SA-508	228.62	230.22	0.0196714	0
1902-001	3-lp sg sh	725-010000	0	SA-508	347.15	363.49	0.0506401	0
1903-001	3-lp sg sh	745-010000	0	SA-508	551.63	552.34	0.0279888	0
1903-002	3-lp sg sh	723-010000	0	SA-508	476.77	482.98	0.0510886	0
1903-003	3-lp sg sh	739-010000	0	SA-508	528.6	529.66	0.0325381	0
1903-004	3-lp sg sh	750-010000	0	SA-508	556.83	558	0.0440899	0
1903-005	3-lp sg sh	760-010000	0	SA-508	584.84	585.24	0.0020638	0
1904-001	3-lp sg sh	770-010000	0	SA-508	586.3	586.62	0.00192491	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	426.82	454.72	0.0666519	0.08255
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	218.82	218.82	0.0231549	0.02315
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	215.93	215.93	0.0147769	0.01478
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	218.69	218.69	0.0243782	0.02438
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	218.42	218.42	0.0242414	0.02424
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	218.14	218.14	0.0239411	0.02394
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	217.84	217.84	0.023433	0.02343
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	217.4	217.4	0.0224453	0.02245
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	216.98	216.98	0.0210253	0.02103
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	216.7	216.7	0.0185604	0.01856
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	216.59	216.59	0.0188086	0.01881
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	220.82	220.82	0.0209942	0.02099
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	216.06	216.06	0.0182664	0.01827
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	216.06	216.06	0.0183219	0.01832
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	216.06	216.06	0.0184066	0.01841

Table CLSt5-5 – CLPS LOCA Case 14BLT: SG Wall Film Conditions (t= 10000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	216.09	216.09	0.0184249	0.01842
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	216.1	216.1	0.0184569	0.01846
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	216.11	216.11	0.0185658	0.01857
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	216.19	216.19	0.0184832	0.01848
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	216.45	216.45	0.0185615	0.01856
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	221.04	221.04	0.0206008	0.02060
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	222.99	223.59	0.0170093	0.01643
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	228.7	229.81	0.0204715	0.02007
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	236.53	238.18	0.0226845	0.02367
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	337.81	338	0.0216244	0.01119
7301-001	3-lp DC	730-010000	725-040000	SS-316	220.86	222.19	0.0329412	0.02038
7301-002	3-lp DC	730-020000	725-040000	SS-316	220.67	222.06	0.0332001	0.02068
7301-003	3-lp DC	730-030000	725-040000	SS-316	220.5	221.94	0.0334128	0.02097
7301-004	3-lp DC	730-040000	725-040000	SS-316	220.32	221.82	0.0335774	0.02125
7301-005	3-lp DC	730-050000	725-030000	SS-316	222.57	225.99	0.0391233	0.02782
7301-006	3-lp DC	730-060000	725-030000	SS-316	222.31	225.81	0.0392165	0.02810
7301-007	3-lp DC	730-070000	725-030000	SS-316	222.06	225.65	0.0392622	0.02836
7301-008	3-lp DC	732-010000	725-020000	SS-316	225.14	231.59	0.0439702	0.03445
7301-009	3-lp DC	734-010000	725-020000	SS-316	225.07	231.55	0.0440232	0.03450
7301-010	3-lp DC	736-010000	725-010000	SS-316	261.89	305.77	0.0653155	0.08281
7301-011	3-lp DC	738-010000	725-010000	SS-316	374.71	355.97	0.0578421	0.06603
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	217.44	218.23	0.0288438	0.01797
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	217.44	218.23	0.0289036	0.01797
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	217.44	218.23	0.0289103	0.01797
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	217.43	218.23	0.0289195	0.01797
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	218.97	220.78	0.0340424	0.02302
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	218.98	220.78	0.0340405	0.02301
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	218.98	220.78	0.0340408	0.02301
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	221.2	224.81	0.0387539	0.02897
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	221.37	224.91	0.0386165	0.02882
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	261.32	304.43	0.0650392	0.08126
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	374.3	355.19	0.0582312	0.06519

Table CLSt5-6: CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 10000 seconds)

Table CLSt5-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0	465.98	554.1
623-010000	366.645	0	445.6	554.1
624-010000	155.893	0	324.09	554.39
624-020000	43.006	0	227.71	554.82
624-030000	59.135	0	221.91	555.36
624-040000	43.006	0	219.19	555.89
625-010000	180.020	0	326.99	554.39
625-020000	73.345	0	234.64	554.82
625-030000	100.851	0	228.59	555.36
625-040000	73.345	0	225.24	555.89
630-010000	70.116	0	219.54	556.06
630-020000	70.116	0	219.1	555.95
630-030000	70.116	0	218.67	555.83
630-040000	70.116	0	218.27	555.72
630-050000	105.180	0	217.78	555.58
630-060000	140.232	0	217.11	555.38
630-070000	140.232	0	216.35	555.16
631-010000	70.116	0	213.35	556.06
631-020000	70.116	0	213.4	555.95
631-030000	70.116	0	213.44	555.83
631-040000	70.116	0	213.5	555.72
631-050000	105.180	0	213.57	555.58
631-060000	140.232	0	213.66	555.38
631-070000	140.232	0	213.76	555.16
632-010000	140.232	0	215.4	554.93
633-010000	140.232	0	213.96	554.93
634-010000	140.232	0	215.03	554.7
635-010000	140.232	0	214.3	554.7
636-010000	86.672	0	215.62	554.52
637-010000	86.672	0	216.4	554.52
638-010000	609.522	0	391.54	554.31
639-010000	635.282	0	504.06	553.94

Table CLSt5-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0	447.04	554.09
641-010000	117.514	0	509.67	553.94
642-010000	320.019	0	538.01	553.74
645-010000	1075.296	0	536.43	553.74
650-010000	830.204	0.854	550.84	553.56
660-010000	703.676	1	553.57	568.85
670-010000	400.000	1	553.56	570.37
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0	501.16	556.65
723-010000	1099.935	0	472.99	556.65
724-010000	467.679	0	336.63	556.93
724-020000	129.019	0	232.41	557.35
724-030000	177.404	0	225.32	557.88
724-040000	129.019	0	220.77	558.4
725-010000	540.019	0	337.79	556.93
725-020000	220.035	0	242.43	557.36
725-030000	302.553	0	232.85	557.88
725-040000	220.035	0	225.54	558.4
730-010000	210.349	0	218.16	558.57
730-020000	210.349	0	217.88	558.46
730-030000	210.349	0	217.62	558.35
730-040000	210.349	0	217.38	558.24
730-050000	315.541	0	217.14	558.1
730-060000	420.697	0	216.81	557.9
730-070000	420.697	0	216.52	557.68
731-010000	210.349	0	215.82	558.57
731-020000	210.349	0	215.8	558.46
731-030000	210.349	0	215.8	558.35
731-040000	210.349	0	215.79	558.24
731-050000	315.541	0	215.82	558.1
731-060000	420.697	0	215.83	557.9

Table CLSt5-6 – CLPS LOCA Case 14BLT: SG Fluid Conditions (t= 10000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0	215.83	557.68
732-010000	420.697	0	216.42	557.46
733-010000	420.697	0	215.91	557.46
734-010000	420.697	0	216.3	557.24
735-010000	420.697	0	216.17	557.24
736-010000	260.017	0	221.26	557.06
737-010000	260.017	0	221.44	557.06
738-010000	1828.567	0	395.31	556.85
739-010000	1905.846	0	527.61	556.5
740-010000	375.926	0	479.89	556.64
741-010000	352.543	0	535.8	556.5
742-010000	960.056	0	552.77	556.3
745-010000	3225.888	0	550.93	556.3
750-010000	2490.612	0.7405	555.82	556.19
760-010000	2111.028	1	556.12	579.7
770-010000	1200.000	1	556.11	581.96

Table CLDt1-1: CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

Table CLDt1-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.7	591.86
1001-002	3-lp HL	63.7	590.69
1001-003	3-lp HL	63.8	600.12
1001-004	3-lp HL	63.7	592.05
1081-001	1-lp sg ch	64.0	618.52
1081-002	1-lp sg ch	63.3	562.94
1082-001	3-lp sg ch	64.0	614.71
1082-002	3-lp sg ch	63.3	563.73
1091-001	1-lp sg ch	62.0	461.5
1091-002	1-lp sg ch	63.1	523.87
1092-001	3-lp sg ch	63.6	552.53
1092-002	3-lp sg ch	63.4	541.29
1251-001	3-lp SG tube	62.1	472.32
1251-002	3-lp SG tube	61.8	453.36
1251-003	3-lp SG tube	61.7	445.92
1251-004	3-lp SG tube	62.9	512.51
1251-005	3-lp SG tube	63.1	525.16
1251-006	3-lp SG tube	63.2	532.85
1251-007	3-lp SG tube	63.3	536.7
1251-008	3-lp SG tube	63.3	536.77
1251-009	3-lp SG tube	63.4	539.87
1251-010	3-lp SG tube	63.4	541.13
1251-011	3-lp SG tube	63.3	535.67
1251-012	3-lp SG tube	63.2	532.69
1251-013	3-lp SG tube	63.1	525.97
1251-014	3-lp SG tube	63.0	518.34
1251-015	3-lp SG tube	62.8	509.06
1251-016	3-lp SG tube	62.6	498.51
1251-017	3-lp SG tube	62.5	490.15
1251-018	3-lp SG tube	62.4	485.26
1251-019	3-lp SG tube	62.3	481.15
1251-020	3-lp SG tube	62.2	477.62

Table CLDt1-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.2	557.76
1401-002	3-lp CL	63.2	557.72
1401-003	3-lp CL	63.2	557.56
1401-004	3-lp CL	63.2	557.43
1401-005	3-lp CL	63.2	557.3
1401-006	3-lp CL	63.2	557.76
1701-001	3-lp CLd	63.2	557.24
1701-002	3-lp CLd	63.2	557.34
1701-003	3-lp CLd	63.2	556.37
1701-004	3-lp CLd	63.2	556.98
1905-001	3-lp sg sh	63.7	559.47
1805-001	1-lp sg sh	63.8	564.52
2001-001	1-lp HL	64.0	612.3
2001-002	1-lp HL	64.0	615.24
2001-003	1-lp HL	64.0	615.52
2001-004	1-lp HL	64.0	615.78
2251-001	sngl tube	61.1	411.94
2251-002	sngl tube	61.0	410.29
2251-003	sngl tube	61.7	446.74
2251-004	sngl tube	61.8	451.48
2251-005	sngl tube	62.0	461.87
2251-006	sngl tube	62.2	473.68
2251-007	sngl tube	62.5	491.78
2251-008	sngl tube	62.6	500.2
2251-009	sngl tube	62.8	506.04
2251-010	sngl tube	62.8	509.78
2251-011	sngl tube	62.9	513.89
2251-012	sngl tube	62.9	515.05
2251-013	sngl tube	62.9	512.14
2251-014	sngl tube	62.8	507.74
2251-015	sngl tube	62.7	501.68
2251-016	sngl tube	62.5	494.22

Table CLDt1-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	62.4	488.77
2251-018	sngl tube	62.4	485.49
2251-019	sngl tube	62.3	482.36
2251-020	sngl tube	62.3	479.31
2401-001	1-lp CL suc	63.2	558.34
2401-002	1-lp CL suc	63.2	558.25
2401-003	1-lp CL suc	63.2	558.17
2401-004	1-lp CL suc	63.2	558.08
2401-005	1-lp CL suc	63.2	557.92
2401-006	1-lp CL suc	63.2	557.16
2701-001	1-lp CL dis	63.2	557.19
2701-002	1-lp CL dis	63.1	553.53
2701-003	1-lp CL dis	63.0	544.3
2701-004	1-lp CL dis	63.1	551.05
101-001	RPV head	63.6	564.24
101-002	RPV head	65.4	562.52
102-001	RPV head flange	63.6	564.32
103-001	RPV nozzle	63.5	563.45
103-002	RPV nozzle	63.5	562.67
104-001	RPV int shell	63.5	561.22
104-002	RPV int shell	63.5	561.08
104-003	RPV int shell	63.5	561.03
105-001	RPV lower shell	63.5	560.64
105-002	RPV lower shell	63.5	560.58
106-001	RPV lower hd	63.5	557.84
106-002	RPV lower hd	65.4	561.14
201-001	core barrel	63.5	582.7
201-002	core barrel	63.3	565.74
201-003	core barrel	63.0	541.64
201-004	core barrel	62.9	540.34
201-005	core barrel	62.9	540.07
201-006	core barrel	63.0	543.43

Table CLDt1-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	62.8	532.22
203-001	fl dis dvce	61.8	463.83
204-001	HR	63.1	548.95
204-002	HR	63.1	549.79
204-003	HR	63.1	550.69
204-004	HR	63.1	551.48
204-005	HR	63.1	552.25
204-006	HR	63.1	553.49
204-007	HR	63.1	551.21
204-008	HR	63.1	552.21
204-009	HR	63.1	553.58
204-010	HR	63.1	554.64
204-011	HR	63.2	555.56
204-012	HR	63.2	556.95
204-013	HR	63.2	558.35
204-014	HR	63.2	559.77
204-015	HR	63.2	561.15
204-016	HR	63.3	562.34
204-017	HR	63.3	563.42
204-018	HR	63.3	564.45
204-019	HR	63.3	565.37
204-020	HR	63.4	569.56
204-021	HR	63.4	570.37
204-022	HR	63.4	571.03
204-023	HR	63.4	571.39
204-024	HR	63.4	571.78
204-025	HR	63.4	571.5
204-026	HR	63.4	571.58
204-027	HR	63.4	571.75
204-028	HR	63.4	571.08
205-001	UPR core plt	62.9	537.52
206-001	LMP	62.6	520.64
206-002	LMP	63.9	611.41

Table CLDt1-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.4	572.68
208-001	CRGA	62.3	495.39
208-002	CRGA	63.9	607.11
208-003	CRGA	62.0	479.75
4001-001	pzr srg	66.5	606.29
4101-001	pzr srg	67.5	643.85
4101-002	pzr srg	67.6	649.77
4101-003	pzr srg	67.7	651.95
4101-004	pzr srg	67.7	654.11
4101-005	pzr srg	67.8	654.82
4101-006	pzr srg	67.8	654.8
4201-001	prz hd	67.4	638.93
4301-001	prz upr hd	67.8	655.97
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	43.9	424.97
301-002	FUEL ASS	44.4	472.43
301-003	FUEL ASS	44.5	475.26
301-004	FUEL ASS	44.6	493.6
301-005	FUEL ASS	44.7	499.39
301-006	FUEL ASS	44.8	508.29
301-007	FUEL ASS	44.8	509.73
301-008	FUEL ASS	44.8	510.51
301-009	FUEL ASS	44.8	510.97
301-010	FUEL ASS	44.9	513.2
301-011	FUEL ASS	44.9	514.01
301-012	FUEL ASS	44.9	514.87
301-013	FUEL ASS	44.9	513.53
301-014	FUEL ASS	44.8	511.37
301-015	FUEL ASS	44.8	508.57

Table CLDt1-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-016	FUEL ASS	44.8	505.08
301-017	FUEL ASS	44.7	500.39
301-018	FUEL ASS	44.7	494.91
301-019	FUEL ASS	44.6	488.84
301-020	FUEL ASS	44.5	483.97
301-021	FUEL ASS	44.5	479.94
301-022	FUEL ASS	44.5	475.54
301-023	FUEL ASS	44.4	468.12
301-024	FUEL ASS	44.3	464.8
301-025	FUEL ASS	44.3	462.82
301-026	FUEL ASS	44.3	464.9
301-027	FUEL ASS	44.4	473.46
301-028	FUEL ASS	43.8	421.94
301-001	**Fuel Cladding**	**30.2**	**424.97**
301-002	**Fuel Cladding**	**30.4**	**472.43**
301-003	**Fuel Cladding**	**30.4**	**475.26**
301-004	**Fuel Cladding**	**30.5**	**493.6**
301-005	**Fuel Cladding**	**30.6**	**499.39**
301-006	**Fuel Cladding**	**30.6**	**508.29**
301-007	**Fuel Cladding**	**30.6**	**509.73**
301-008	**Fuel Cladding**	**30.6**	**510.51**
301-009	**Fuel Cladding**	**30.6**	**510.97**
301-010	**Fuel Cladding**	**30.6**	**513.2**
301-011	**Fuel Cladding**	**30.6**	**514.01**
301-012	**Fuel Cladding**	**30.6**	**514.87**
301-013	**Fuel Cladding**	**30.6**	**513.53**
301-014	**Fuel Cladding**	**30.6**	**511.37**
301-015	**Fuel Cladding**	**30.6**	**508.57**
301-016	**Fuel Cladding**	**30.6**	**505.08**
301-017	**Fuel Cladding**	**30.6**	**500.39**
301-018	**Fuel Cladding**	**30.5**	**494.91**
301-019	**Fuel Cladding**	**30.5**	**488.84**
301-020	**Fuel Cladding**	**30.5**	**483.97**

Table CLDt1-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-021	**Fuel Cladding**	**30.5**	**479.94**
301-022	**Fuel Cladding**	**30.5**	**475.54**
301-023	**Fuel Cladding**	**30.4**	**468.12**
301-024	**Fuel Cladding**	**30.4**	**464.8**
301-025	**Fuel Cladding**	**30.4**	**462.82**
301-026	**Fuel Cladding**	**30.4**	**464.9**
301-027	**Fuel Cladding**	**30.4**	**473.46**
301-028	**Fuel Cladding**	**30.2**	**421.94**

Table CLDt1-2: CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

Table CLDt1-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	429.97	625.68	1.1726	0
1001-002	3-lp HL	105-010000	0	SS-316	422.48	625.68	1.0712	0
1001-003	3-lp HL	110-010000	0	SS-316	479.45	625.68	0.0326793	0
1001-004	3-lp HL	115-010000	0	SS-316	430.03	625.67	0.0208275	0
1081-001	1-lp sg ch	220-010000	0	SS-316	563.3	625.76	0.00601768	0
1081-002	1-lp sg ch	230-010000	0	SS-316	549.55	564.86	0.00697429	0
1082-001	3-lp sg ch	120-010000	0	SS-316	437.64	625.76	0.44674	0
1082-002	3-lp sg ch	130-010000	0	SS-316	556.17	564.85	0.00515222	0
1091-001	1-lp sg ch	221-010000	0	alloy690	406.81	474.14	1.3294	0
1091-002	1-lp sg ch	229-010000	0	alloy690	520.93	524.69	0.0442493	0
1092-001	3-lp sg ch	121-010000	0	alloy690	533.64	555.23	0.18251	0
1092-002	3-lp sg ch	129-010000	0	alloy690	538.68	541.99	0.0321978	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	462.07	479.7	0.0185088	0.12702
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	439.96	462.74	0.0173483	0.13159
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	430.46	456.76	0.0181336	0.13543
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	509.01	515.05	0.0179573	0.10263
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	522.3	527.14	0.0207848	0.0974378
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	531.02	534.13	0.026632	0.0932501
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	535.53	537.56	0.0322464	0.0902352
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	535.89	537.41	0.0346431	0.0849564
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	539.06	540.48	0.0349992	0.0858744
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	540.38	541.69	0.0346355	0.0845959
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	535.05	536.16	0.0344451	0.11292
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	532.15	533.1	0.0345285	0.13668
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	525.56	526.27	0.0349583	0.17225
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	518.03	518.54	0.0352866	0.19314
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	508.86	509.17	0.0351958	0.19397
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	498.41	498.54	0.0347218	0.19466
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	490.1	490.17	0.0341669	0.1947
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	484.93	485.37	0.0339339	0.19472
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	480.88	481.26	0.0339463	0.19472

Table CLDt1-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	477.38	477.71	0.0338036	0.1947
1401-001	3-lp CL	135-010000	0	SS-316	525.37	564.77	0.0317123	0
1401-002	3-lp CL	140-010000	0	SS-316	525.11	564.77	0.0313536	0
1401-003	3-lp CL	145-010000	0	SS-316	524.18	564.78	0.0307305	0
1401-004	3-lp CL	150-010000	0	SS-316	523.53	564.77	0.029773	0
1401-005	3-lp CL	155-010000	0	SS-316	522.79	564.77	0.0287555	0
1401-006	3-lp CL	160-010000	0	SS-316	523.65	565.15	0.023302	0
1701-001	3-lp CLd	165-010000	0	SS-316	519.22	565.46	0.0237401	0
1701-002	3-lp CLd	170-010000	0	SS-316	519.82	565.46	0.0231441	0
1701-003	3-lp CLd	175-010000	0	SS-316	514.26	565.46	0.0225577	0
1701-004	3-lp CLd	180-010000	0	SS-316	517.78	565.46	0.0216654	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	428.64	547.3	0.36504	0.00515222
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	488.71	528.69	0.00610806	0.00697429
2001-001	1-lp HL	200-010000	0	SS-316	548.13	625.7	0.0537592	0
2001-002	1-lp HL	205-010000	0	SS-316	565.38	625.69	0.0432873	0
2001-003	1-lp HL	210-010000	0	SS-316	566.96	625.69	0.0395135	0
2001-004	1-lp HL	215-010000	0	SS-316	568.55	625.69	0.0381777	0
2251-001	sngl tube	225-010000	630-010000	alloy690	399.92	422.29	1.3148	0.15282
2251-002	sngl tube	225-020000	630-020000	alloy690	398.98	419.85	1.3312	0.1485
2251-003	sngl tube	225-030000	630-030000	alloy690	444.24	449.64	0.0526639	0.1276
2251-004	sngl tube	225-040000	630-040000	alloy690	449.48	453.86	0.0453217	0.12662
2251-005	sngl tube	225-050000	630-050000	alloy690	460.27	463.71	0.0429545	0.12832
2251-006	sngl tube	225-060000	630-060000	alloy690	472.4	475.1	0.042563	0.13012
2251-007	sngl tube	225-070000	630-070000	alloy690	490.68	492.89	0.0422413	0.13146
2251-008	sngl tube	225-080000	632-010000	alloy690	499.28	501.12	0.0423408	0.11837
2251-009	sngl tube	225-090000	634-010000	alloy690	505.3	506.75	0.042507	0.0939147
2251-010	sngl tube	225-100000	636-010000	alloy690	509.11	510.44	0.0427161	0.0933966
2251-011	sngl tube	225-110000	637-010000	alloy690	513.31	514.43	0.042852	0.14333
2251-012	sngl tube	225-120000	635-010000	alloy690	514.6	515.46	0.0430527	0.16081
2251-013	sngl tube	225-130000	633-010000	alloy690	511.84	512.4	0.0433403	0.18401
2251-014	sngl tube	225-140000	631-070000	alloy690	507.56	507.87	0.0436043	0.19727

Table CLDt1-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	501.62	501.7	0.0438526	0.19787
2251-016	sngl tube	225-160000	631-050000	alloy690	494.24	494.18	0.0440722	0.19798
2251-017	sngl tube	225-170000	631-040000	alloy690	488.88	488.66	0.0441997	0.198
2251-018	sngl tube	225-180000	631-030000	alloy690	485.63	485.35	0.0442594	0.19795
2251-019	sngl tube	225-190000	631-020000	alloy690	482.51	482.21	0.0446836	0.19789
2251-020	sngl tube	225-200000	631-010000	alloy690	479.47	479.13	0.0446532	0.19781
2401-001	1-lp CL suc	235-010000	0	SS-316	527.71	564.78	0.046931	0
2401-002	1-lp CL suc	240-010000	0	SS-316	527.25	564.78	0.0468941	0
2401-003	1-lp CL suc	245-010000	0	SS-316	526.79	564.79	0.0469206	0
2401-004	1-lp CL suc	250-010000	0	SS-316	526.34	564.78	0.0468196	0
2401-005	1-lp CL suc	255-010000	0	SS-316	525.49	564.78	0.0468497	0
2401-006	1-lp CL suc	260-010000	0	SS-316	520.19	565.15	0.0441005	0
2701-001	1-lp CL dis	265-010000	0	SS-316	517.06	565.71	0.0438819	0
2701-002	1-lp CL dis	270-010000	0	SS-316	493.66	565.71	0.36469	0
2701-003	1-lp CL dis	275-010000	0	SS-316	443.23	565.7	0.0683226	0
2701-004	1-lp CL dis	280-010000	0	SS-316	480.82	565.7	0.0649289	0
101-001	RPV head	94-010000	0	alloy600	527.03	565.61	0.00288433	0
101-002	RPV head	90-010000	0	SA-508	448.94	565.32	0.6719	0
102-001	RPV head flange	90-010000	0	alloy600	448.92	565.32	0.67143	0
103-001	RPV nozzle	10-010000	0	alloy600	431.7	565.56	0.53621	0
103-002	RPV nozzle	12-010000	0	alloy600	418.67	565.54	0.57534	0
104-001	RPV int shell	12-010000	0	alloy600	418.82	565.54	0.57653	0
104-002	RPV int shell	14-010000	0	alloy600	404.32	565.57	0.98012	0
104-003	RPV int shell	16-010000	0	alloy600	401.22	565.58	0.95781	0
105-001	RPV lower shell	16-010000	0	alloy600	401.14	565.58	0.95492	0
105-002	RPV lower shell	18-010000	0	alloy600	397.28	565.59	0.28552	0
106-001	RPV lower hd	18-010000	0	alloy600	396.94	565.59	0.28162	0
106-002	RPV lower hd	20-010000	0	SA-508	437.13	565.61	0.38225	0
201-001	core barrel	10-010000	86-010000	SS-316	430.11	600.72	0.51895	0.00190909
201-002	core barrel	12-010000	84-010000	SS-316	413.36	522.61	0.53158	0.00282485
201-003	core barrel	14-010000	80-040000	SS-316	401.09	489.83	0.87758	0.0137061

Table CLDt1-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	401.08	480.51	0.87748	0.013985
201-005	core barrel	16-010000	80-020000	SS-316	397.72	482.58	0.82947	0.0136876
201-006	core barrel	16-010000	80-010000	SS-316	397.72	499.37	0.82943	0.0549031
202-001	low sup plate	22-010000	0	SS-316	444.41	562.2	0.0104677	0
203-001	fl dis dvce	22-010000	0	SS-316	438.78	480.32	0.0104963	0
204-001	HR	24-010000	80-010000	SS-316	462.78	500.03	0.0237436	0.0543032
204-002	HR	26-010000	80-010000	SS-316	462.7	500.67	0.0224702	0.0537364
204-003	HR	28-010000	80-010000	SS-316	464.82	501.67	0.0226475	0.0528645
204-004	HR	30-010000	80-010000	SS-316	463.05	502.72	0.0228282	0.0519776
204-005	HR	32-010000	80-010000	SS-316	459.41	503.67	0.0230133	0.051199
204-006	HR	34-010000	80-010000	SS-316	463.23	505.02	0.0232402	0.0501244
204-007	HR	36-010000	80-020000	SS-316	454.07	483.64	0.0235463	0.0136795
204-008	HR	38-010000	80-020000	SS-316	447.91	483.88	0.0238051	0.0136777
204-009	HR	40-010000	80-020000	SS-316	448.34	484.13	0.0238377	0.0136758
204-010	HR	42-010000	80-020000	SS-316	438.3	484.37	0.0227464	0.0136739
204-011	HR	44-010000	80-020000	SS-316	423.68	484.61	0.0223846	0.013672
204-012	HR	46-010000	80-020000	SS-316	421.2	484.86	0.0218396	0.0136701
204-013	HR	48-010000	80-020000	SS-316	419.97	485.11	0.0212712	0.0136682
204-014	HR	50-010000	80-030000	SS-316	419.7	483.02	0.0207417	0.013965
204-015	HR	52-010000	80-030000	SS-316	420.26	483.26	0.0202164	0.0139631
204-016	HR	54-010000	80-030000	SS-316	420.3	483.52	0.0198526	0.0139611
204-017	HR	56-010000	80-030000	SS-316	420.12	483.76	0.0194681	0.0139592
204-018	HR	58-010000	80-030000	SS-316	420.87	483.97	0.0189009	0.0139575
204-019	HR	60-010000	80-030000	SS-316	420.93	484.17	0.0212252	0.0139559
204-020	HR	62-010000	80-040000	SS-316	420.85	517.11	0.021956	0.0135294
204-021	HR	64-010000	80-040000	SS-316	421.85	517.35	0.0203348	0.0135277
204-022	HR	66-010000	80-040000	SS-316	421.93	517.58	0.0230294	0.0135261
204-023	HR	68-010000	80-040000	SS-316	421.53	517.77	0.0294831	0.0135247
204-024	HR	70-010000	80-040000	SS-316	422.33	517.92	0.0335821	0.0135236
204-025	HR	72-010000	80-040000	SS-316	421.57	518.01	0.0512056	0.013523
204-026	HR	74-010000	80-040000	SS-316	420.43	518.08	0.0568922	0.0135225
204-027	HR	76-010000	80-040000	SS-316	421.42	518.13	0.0351397	0.0135222

Table CLDt1-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	420.71	517.87	0.0393955	0.013524
205-001	UPR core plt	84-010000	0	SS-316	485.69	584.8	0.00310355	0
206-001	LMP	84-010000	0	SS-316	507.34	530.15	0.00283809	0
206-002	LMP	86-010000	0	SS-316	609.71	612.3	0.00192694	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	615.32	482.78	0.00193782	0.55576
208-001	CRGA	84-010000	0	SS-316	489.09	500.52	0.00299114	0
208-002	CRGA	86-010000	0	SS-316	605.76	607.88	0.00191917	0
208-003	CRGA	92-010000	0	SS-316	439	503.12	1.046	0
4001-001	pzr srg	400-010000	0	SA-508	537.34	626.69	0.25245	0
4101-001	pzr srg	410-010000	0	SA-508	621.4	646.64	0.00646425	0
4101-002	pzr srg	410-020000	0	SA-508	634.72	651.9	0.00556465	0
4101-003	pzr srg	410-030000	0	SA-508	641.05	653.51	0.00476113	0
4101-004	pzr srg	410-040000	0	SA-508	646.98	655.06	0.00476991	0
4101-005	pzr srg	410-050000	0	SA-508	651.88	655.04	0.00476229	0
4101-006	pzr srg	410-060000	0	SA-508	651.89	655.02	0.00471406	0
4201-001	prz hd	408-010000	0	SA-508	596.12	643.25	0.0146371	0
4301-001	prz upr hd	412-010000	0	SA-508	653.02	656.21	0.00468403	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLDt1-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	**Fuel Cladding**	**0**	**24-010000**	**cladding**		**408.42**		**0.0657502**
301-002	**Fuel Cladding**	**0**	**26-010000**	**cladding**		**434.5**		**0.0202414**
301-003	**Fuel Cladding**	**0**	**28-010000**	**cladding**		**440.47**		**0.0203041**
301-004	**Fuel Cladding**	**0**	**30-010000**	**cladding**		**451.89**		**0.020293**
301-005	**Fuel Cladding**	**0**	**32-010000**	**cladding**		**453.71**		**0.020384**
301-006	**Fuel Cladding**	**0**	**34-010000**	**cladding**		**452.08**		**0.0205404**
301-007	**Fuel Cladding**	**0**	**36-010000**	**cladding**		**426.61**		**0.0210348**
301-008	**Fuel Cladding**	**0**	**38-010000**	**cladding**		**409.37**		**0.0214267**
301-009	**Fuel Cladding**	**0**	**40-010000**	**cladding**		**400.79**		**0.21226**
301-010	**Fuel Cladding**	**0**	**42-010000**	**cladding**		**397.05**		**0.87588**
301-011	**Fuel Cladding**	**0**	**44-010000**	**cladding**		**397.08**		**0.88996**
301-012	**Fuel Cladding**	**0**	**46-010000**	**cladding**		**397.11**		**0.89813**
301-013	**Fuel Cladding**	**0**	**48-010000**	**cladding**		**397.03**		**0.89858**
301-014	**Fuel Cladding**	**0**	**50-010000**	**cladding**		**396.93**		**0.8933**
301-015	**Fuel Cladding**	**0**	**52-010000**	**cladding**		**396.79**		**0.88382**

Table CLDt1-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	**Fuel Cladding**	**0**	**54-010000**	**cladding**		**396.58**		**0.87379**
301-017	**Fuel Cladding**	**0**	**56-010000**	**cladding**		**396.32**		**0.85805**
301-018	**Fuel Cladding**	**0**	**58-010000**	**cladding**		**396.02**		**0.83752**
301-019	**Fuel Cladding**	**0**	**60-010000**	**cladding**		**395.65**		**0.81964**
301-020	**Fuel Cladding**	**0**	**62-010000**	**cladding**		**395.32**		**0.80178**
301-021	**Fuel Cladding**	**0**	**64-010000**	**cladding**		**395.04**		**0.78171**
301-022	**Fuel Cladding**	**0**	**66-010000**	**cladding**		**394.63**		**0.76605**
301-023	**Fuel Cladding**	**0**	**68-010000**	**cladding**		**394.03**		**0.74659**
301-024	**Fuel Cladding**	**0**	**70-010000**	**cladding**		**393.59**		**0.73331**
301-025	**Fuel Cladding**	**0**	**72-010000**	**cladding**		**393.16**		**0.72999**
301-026	**Fuel Cladding**	**0**	**74-010000**	**cladding**		**392.82**		**0.72352**
301-027	**Fuel Cladding**	**0**	**76-010000**	**cladding**		**392.55**		**0.70044**
301-028	**Fuel Cladding**	**0**	**78-010000**	**cladding**		**391.53**		**0.668**

Table CLDt1-3: CLPD LOCA Case 30: RCS Fluid Conditions (t= 20.5 seconds)

Table CLDt1-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.991	387.3	388.4
105-010000	112.108	0.989	387.6	387.0
110-010000	90.692	0.994	389.9	382.8
115-010000	99.530	0.979	388.3	387.9
117-010000	34.487	0.987	388.0	387.4
120-010000	605.616	0.829	385.1	393.0
121-010000	90.006	0.946	388.0	398.4
125-010000	104.546	0.985	387.8	400.3
125-020000	104.546	0.994	387.6	399.9
125-030000	104.546	0.997	387.5	399.3
125-040000	104.546	0.997	387.6	419.7
125-050000	156.828	0.996	387.8	440.4
125-060000	209.092	0.997	388.4	460.6
125-070000	209.092	0.997	389.0	476.1
125-080000	209.092	0.998	389.1	486.8
125-090000	209.092	0.998	388.9	495.2
125-100000	182.764	0.998	388.7	500.9
125-110000	182.764	0.999	388.5	503.3
125-120000	209.092	0.999	388.4	504.8
125-130000	209.092	0.999	388.3	504.4
125-140000	209.092	0.999	388.2	502.5
125-150000	209.092	0.999	388.1	499.0
125-160000	156.828	0.999	388.0	494.4
125-170000	104.546	1.000	388.0	490.3
125-180000	104.546	1.000	392.9	486.3
125-190000	104.546	1.000	388.4	483.1
125-200000	104.546	1.000	388.3	480.1
129-010000	90.006	1.000	388.2	491.6
130-010000	605.616	1.000	388.1	471.7
132-010000	34.487	1.000	387.7	469.1
135-010000	51.857	1.000	387.5	467.4
140-010000	61.586	1.000	387.4	465.5

Table CLDt1-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	387.3	463.0
150-010000	102.591	1.000	386.3	462.5
155-010000	108.946	1.000	386.9	461.3
160-010000	413.100	1.000	385.6	461.4
165-010000	105.120	1.000	383.1	458.0
170-010000	105.120	1.000	382.8	456.7
175-010000	135.835	0.999	382.1	454.6
180-010000	116.691	1.000	382.5	452.8
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.992	386.9	389.6
205-010000	37.369	0.992	386.6	390.3
210-010000	30.231	0.993	386.4	390.9
215-010000	33.177	0.993	386.1	390.9
217-010000	11.496	0.996	385.9	389.4
220-010000	201.872	0.989	386.3	389.4
221-010000	30.002	0.995	386.2	388.1
225-010000	34.849	0.997	386.0	387.6
225-020000	34.849	0.998	385.8	387.1
225-030000	34.849	0.998	385.7	400.5
225-040000	34.849	0.998	385.5	411.5
225-050000	52.276	0.999	385.3	425.7
225-060000	69.697	0.999	385.0	441.2
225-070000	69.697	0.999	384.7	457.4
225-080000	69.697	0.999	384.3	470.3
225-090000	69.697	0.999	384.0	480.2
225-100000	60.921	1.000	383.7	487.0
225-110000	60.921	1.000	383.4	492.9
225-120000	69.697	1.000	383.1	497.7
225-130000	69.697	1.000	382.7	499.6
225-140000	69.697	1.000	382.4	499.3
225-150000	69.697	1.000	382.0	497.1

Table CLDt1-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	1.000	381.8	494.0
225-170000	34.849	1.000	381.5	491.2
225-180000	34.849	1.000	381.4	488.6
225-190000	34.849	1.000	381.2	486.0
225-200000	34.849	1.000	381.0	483.3
229-010000	30.002	1.000	380.9	490.7
230-010000	201.872	1.000	380.9	484.2
232-010000	11.496	1.000	379.1	479.0
235-010000	17.286	1.000	379.1	478.7
240-010000	20.529	1.000	379.0	478.1
245-010000	38.892	1.000	379.0	477.6
250-010000	34.197	1.000	378.9	477.3
255-010000	36.315	1.000	378.8	476.7
260-010000	137.700	1.000	371.9	486.0
265-010000	35.040	1.000	364.6	467.4
270-010000	35.040	0.968	321.3	466.3
275-010000	45.278	0.985	315.6	314.7
280-010000	38.897	0.962	357.0	356.9
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.950	379.3	417.3
12-010000	184.160	0.843	373.7	403.5
14-010000	366.488	0.660	365.7	392.9
16-010000	414.895	0.626	348.8	394.2
18-010000	120.792	0.774	300.3	392.2
20-010000	212.629	0.867	192.1	393.2
22-010000	315.096	0.992	368.4	390.5
24-010000	45.438	1.000	387.2	387.9
26-010000	48.504	1.000	387.3	414.6
28-010000	48.504	1.000	387.3	412.2
30-010000	35.789	1.000	387.3	408.3
32-010000	35.789	1.000	387.3	403.8

Table CLDt1-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
34-010000	35.789	1.000	387.3	398.5
36-010000	35.789	1.000	387.4	392.5
38-010000	35.789	1.000	387.4	388.2
40-010000	35.789	1.000	387.4	387.4
42-010000	35.789	0.999	387.4	387.4
44-010000	35.789	0.998	387.4	387.4
46-010000	35.789	0.998	387.5	387.5
48-010000	35.789	0.996	387.5	387.5
50-010000	35.789	0.995	387.5	387.5
52-010000	35.789	0.995	387.5	387.5
54-010000	33.109	0.993	387.5	387.5
56-010000	33.109	0.993	387.5	387.5
58-010000	33.109	0.993	387.6	387.6
60-010000	33.109	0.992	387.6	387.6
62-010000	33.109	0.991	387.6	387.6
64-010000	33.109	0.991	387.6	387.6
66-010000	33.109	0.989	387.6	387.6
68-010000	33.109	0.986	387.6	387.6
70-010000	33.109	0.984	387.6	387.6
72-010000	21.064	0.977	387.6	387.6
74-010000	21.064	0.976	387.6	387.6
76-010000	21.051	0.984	387.6	387.6
78-010000	86.638	0.982	387.6	387.6
80-010000	5.964	0.984	387.2	441.5
80-020000	4.483	0.992	387.2	443.0
80-030000	4.951	0.990	387.1	436.1
80-040000	5.894	0.989	387.1	434.8
82-010000	28.768	0.962	387.2	390.0
82-020000	21.625	0.999	387.2	388.2
82-030000	23.882	0.998	387.2	389.0
82-040000	28.430	0.999	387.2	390.6
84-010000	573.893	0.982	387.2	387.9
86-010000	276.840	0.992	387.3	391.9

Table CLDt1-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
88-010000	202.853	1.000	410.2	409.7
88-020000	83.659	1.000	410.2	409.9
88-030000	182.966	0.959	410.2	410.1
90-010000	120.233	0.731	425.9	425.3
92-010000	505.835	0.408	426.4	431.2
94-010000	267.973	0.999	424.5	425.6
400-010000	82.382	0.991	478.4	478.3
408-010000	161.115	0.986	520.1	519.7
410-010000	395.598	0.992	520.1	519.5
410-020000	395.598	0.994	520.1	519.5
410-030000	395.598	0.995	520.1	519.4
410-040000	395.598	0.996	520.1	519.4
410-050000	395.598	0.997	520.1	519.3
410-060000	395.598	0.999	520.1	519.2
412-010000	161.115	1.000	520.0	519.2

Table CLDt1-4: CLPD LOCA Case 30: SG Metal Stored Energy (t= 20.5 seconds)

Table CLDt1-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.4	568.85
1552-001	sg sep	63.3	563.8
1601-001	sg sep	63.4	570.73
1621-001	sg sep	63.2	560.96
1641-001	sg sep	63.4	572.71
1641-002	sg sep	63.4	573
1801-001	1-lp sg sh	65.3	558.9
1801-002	1-lp sg sh	65.3	558.65
1801-003	1-lp sg sh	65.3	558.43
1802-001	1-lp sg sh	65.3	559.04
1803-001	1-lp sg sh	65.4	560.17
1803-002	1-lp sg sh	65.3	559.12
1803-003	1-lp sg sh	65.3	559.35
1803-004	1-lp sg sh	65.4	560.21
1803-005	1-lp sg sh	65.4	560.17
1804-001	1-lp sg sh	65.4	560.2
1806-001	1-lp sg sh	65.5	564.97
1807-001	1-lp sg sh	63.1	549.95
1807-002	1-lp sg sh	62.2	488.18
1808-001	1-lp sg sh	63.1	549.97
1808-002	1-lp sg sh	63.1	548.33
1808-003	1-lp sg sh	63.0	547.48
1808-004	1-lp sg sh	63.0	547.21
1808-005	1-lp sg sh	63.0	547.71
1808-006	1-lp sg sh	63.1	549.56
1808-007	1-lp sg sh	63.1	550.77
1808-008	1-lp sg sh	63.1	551.81
1808-009	1-lp sg sh	63.1	551.77
1808-010	1-lp sg sh	62.3	499.58
1808-011	1-lp sg sh	62.5	508.14
1808-012	1-lp sg sh	62.6	515.72
1808-013	1-lp sg sh	62.7	525

Table CLDt1-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	62.9	535.55
1808-015	1-lp sg sh	63.0	542.45
1808-016	1-lp sg sh	63.0	546.31
1808-017	1-lp sg sh	63.1	549.55
1808-018	1-lp sg sh	63.1	551.55
6241-001	DC sleeve	62.5	514.22
6241-002	DC sleeve	62.5	513.72
6241-003	DC sleeve	62.5	511.98
6241-004	DC sleeve	62.6	516.3
6301-001	hot DC	63.1	552.18
6301-002	hot DC	63.1	549.36
6301-003	hot DC	63.0	547.76
6301-004	hot DC	63.0	546.88
6301-005	hot DC	63.0	547.09
6301-006	hot DC	63.0	547.45
6301-007	hot DC	63.1	549.12
6301-008	hot DC	63.1	550.55
6301-009	hot DC	63.1	551.48
6301-010	hot DC	63.1	551.71
6301-011	hot DC	63.2	561.64
6311-001	cold DC	62.0	481.14
6311-002	cold DC	62.1	483.57
6311-003	cold DC	62.1	485.96
6311-004	cold DC	62.2	488.3
6311-005	cold DC	62.2	490.43
6311-006	cold DC	62.2	494.1
6311-007	cold DC	62.3	496.95
6311-008	cold DC	62.3	496.69
6311-009	cold DC	62.3	497.84
6311-010	cold DC	62.4	506.95
6311-011	cold DC	62.6	514.93
1543-001	sg sep	63.4	569.72

Table CLDt1-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	63.3	565.42
1602-001	sg sep	63.4	571.93
1622-001	sg sep	63.2	561.07
1642-001	sg sep	63.4	574.36
1642-002	sg sep	63.4	574.63
1901-001	3-lp sg sh	65.3	558.9
1901-002	3-lp sg sh	65.3	558.66
1901-003	3-lp sg sh	65.3	558.47
1902-001	3-lp sg sh	65.3	559.03
1903-001	3-lp sg sh	65.4	560.25
1903-002	3-lp sg sh	65.3	559.12
1903-003	3-lp sg sh	65.3	559.35
1903-004	3-lp sg sh	65.4	560.31
1903-005	3-lp sg sh	65.4	560.26
1904-001	3-lp sg sh	65.4	560.3
1906-001	3-lp sg sh	65.5	566.01
1907-001	3-lp sg sh	63.1	551.65
1907-002	3-lp sg sh	62.2	488.4
1908-001	3-lp sg sh	63.1	551.71
1908-002	3-lp sg sh	63.1	551.05
1908-003	3-lp sg sh	63.1	554.46
1908-004	3-lp sg sh	63.2	556.39
1908-005	3-lp sg sh	63.2	557.5
1908-006	3-lp sg sh	63.2	558.36
1908-007	3-lp sg sh	63.2	558.33
1908-008	3-lp sg sh	63.2	558.91
1908-009	3-lp sg sh	63.2	558.96
1908-010	3-lp sg sh	62.3	500.05
1908-011	3-lp sg sh	62.5	509.01
1908-012	3-lp sg sh	62.6	517.07
1908-013	3-lp sg sh	62.7	527.14
1908-014	3-lp sg sh	62.9	538.66
1908-015	3-lp sg sh	63.0	546.38

Table CLDt1-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 20.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	63.1	550.97
1908-017	3-lp sg sh	63.1	554.83
1908-018	3-lp sg sh	63.2	557.66
7241-001	3-lp DC sleeve	62.5	513.98
7241-002	3-lp DC sleeve	62.5	513.17
7241-003	3-lp DC sleeve	62.5	511.28
7241-004	3-lp DC sleeve	62.6	516.32
7301-001	3-lp DC	63.1	553.58
7301-002	3-lp DC	63.1	551.16
7301-003	3-lp DC	63.1	550.44
7301-004	3-lp DC	63.1	553.69
7301-005	3-lp DC	63.2	555.79
7301-006	3-lp DC	63.2	556.79
7301-007	3-lp DC	63.2	557.51
7301-008	3-lp DC	63.2	557.7
7301-009	3-lp DC	63.2	558.22
7301-010	3-lp DC	63.2	558.67
7301-011	3-lp DC	63.3	563.17
7311-001	3-lp DC cold	62.0	481.26
7311-002	3-lp DC cold	62.1	483.93
7311-003	3-lp DC cold	62.1	486.66
7311-004	3-lp DC cold	62.2	489.39
7311-005	3-lp DC cold	62.2	492.13
7311-006	3-lp DC cold	62.3	496.64
7311-007	3-lp DC cold	62.3	500.24
7311-008	3-lp DC cold	62.3	500.33
7311-009	3-lp DC cold	62.4	501.64
7311-010	3-lp DC cold	62.5	511.84
7311-011	3-lp DC cold	62.6	517.27

Table CLDt1-5: CLPD LOCA Case 30: SG Wall Film Conditions (t= 20.5 seconds)

Table CLDt1-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	568.54	569.03	0.11642	0.15777
1552-001	sg sep	640-010000	623-010000	SS-316	563.36	563.86	0.05771	0.05672
1601-001	sg sep	642-010000	645-010000	SS-316	571.99	572.06	0.41544	0.41243
1621-001	sg sep	660-010000	660-010000	SS-316	567.49	567.49	0.31947	0.31947
1641-001	sg sep	645-010000	642-010000	SS-316	572.93	572.9	0.51858	0.53042
1641-002	sg sep	650-010000	650-010000	SS-316	573.1	573.11	0.68874	0.69195
1801-001	1-lp sg sh	625-020000	0	SA-508	559.33	558.81	0.16604	0
1801-002	1-lp sg sh	625-030000	0	SA-508	558.98	558.58	0.16640	0
1801-003	1-lp sg sh	625-040000	0	SA-508	558.3	558.42	0.16780	0
1802-001	1-lp sg sh	625-010000	0	SA-508	559.39	558.97	0.06465	0
1803-001	1-lp sg sh	645-010000	0	SA-508	567.52	558.95	0.28955	0
1803-002	1-lp sg sh	623-010000	0	SA-508	559.31	559.09	0.04060	0
1803-003	1-lp sg sh	639-010000	0	SA-508	561.1	559.09	0.09592	0
1803-004	1-lp sg sh	650-010000	0	SA-508	569.02	558.69	0.36007	0
1803-005	1-lp sg sh	660-010000	0	SA-508	568.8	558.68	0.33998	0
1804-001	1-lp sg sh	670-010000	0	SA-508	569.31	558.63	0.39596	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	562.31	564.99	0.06212	0.06273
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	545.03	545.03	0.09138	0.09138
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	485.48	485.48	0.15037	0.15037
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	542.63	542.63	0.09435	0.09435
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	539.7	539.7	0.09492	0.09492
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	538.12	538.12	0.09626	0.09626
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	537.48	537.48	0.09754	0.09754
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	538.18	538.18	0.09892	0.09892
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	541.31	541.31	0.09993	0.09993
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	543.49	543.49	0.08998	0.08998
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	545.16	545.16	0.08305	0.08305
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	545.19	545.19	0.08056	0.08056
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	494.07	494.07	0.15043	0.15043
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	500.88	500.88	0.15048	0.15048
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	507.27	507.27	0.15051	0.15051

Table CLDt1-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	515.61	515.61	0.15050	0.15050
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	525.21	525.21	0.15042	0.15042
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	532.22	532.22	0.14996	0.14996
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	537.36	537.36	0.13988	0.13988
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	542.2	542.2	0.12224	0.12224
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	544.66	544.66	0.10896	0.10896
6241-001	DC sleeve	624-040000	625-040000	SS-316	484.86	536.9	0.45147	0.16780
6241-002	DC sleeve	624-030000	625-030000	SS-316	482.15	539.26	0.45110	0.16640
6241-003	DC sleeve	624-020000	625-020000	SS-316	477.38	539.24	0.45067	0.16604
6241-004	DC sleeve	624-010000	625-010000	SS-316	491.21	537.31	0.13208	0.10884
6301-001	hot DC	630-010000	625-040000	SS-316	542.27	554.66	0.08981	0.16780
6301-002	hot DC	630-020000	625-040000	SS-316	536.49	553.8	0.09259	0.16780
6301-003	hot DC	630-030000	625-040000	SS-316	533.2	553.33	0.09492	0.16780
6301-004	hot DC	630-040000	625-040000	SS-316	531.35	553.1	0.09626	0.16780
6301-005	hot DC	630-050000	625-030000	SS-316	530.76	555.68	0.09754	0.16640
6301-006	hot DC	630-060000	625-030000	SS-316	531.66	555.84	0.09892	0.16640
6301-007	hot DC	630-070000	625-030000	SS-316	536.12	556.23	0.09993	0.16640
6301-008	hot DC	632-010000	625-020000	SS-316	539.62	556.94	0.08998	0.16604
6301-009	hot DC	634-010000	625-020000	SS-316	541.9	557.21	0.08044	0.16604
6301-010	hot DC	636-010000	625-010000	SS-316	542.68	557.01	0.07835	0.06465
6301-011	hot DC	638-010000	625-010000	SS-316	559.57	562	0.05778	0.06465
6311-001	cold DC	631-010000	624-040000	SS-316	481.44	476.78	0.15037	0.45147
6311-002	cold DC	631-020000	624-040000	SS-316	484.7	477.5	0.15043	0.45147
6311-003	cold DC	631-030000	624-040000	SS-316	487.98	478.19	0.15048	0.45147
6311-004	cold DC	631-040000	624-040000	SS-316	491.37	478.84	0.15051	0.45147
6311-005	cold DC	631-050000	624-030000	SS-316	496.12	476.93	0.15050	0.45110
6311-006	cold DC	631-060000	624-030000	SS-316	502.21	477.85	0.15042	0.45110
6311-007	cold DC	631-070000	624-030000	SS-316	507.21	478.52	0.14996	0.45110
6311-008	cold DC	633-010000	624-020000	SS-316	510.1	474.04	0.13988	0.45067
6311-009	cold DC	635-010000	624-020000	SS-316	512.48	474.26	0.12224	0.45067
6311-010	cold DC	637-010000	624-010000	SS-316	517.47	488.25	0.10896	0.13208
6311-011	cold DC	638-010000	624-010000	SS-316	531.07	491.68	0.06646	0.13208

Table CLDt1-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	569.52	569.81	0.06110	0.14026
1553-001	sg sep	740-010000	723-010000	SS-316	565.52	565.08	0.06056	0.06390
1602-001	sg sep	742-010000	745-010000	SS-316	573.5	573.83	0.33638	0.37854
1622-001	sg sep	760-010000	760-010000	SS-316	567.94	567.94	0.29595	0.29595
1642-001	sg sep	745-010000	742-010000	SS-316	574.84	574.66	0.44635	0.39739
1642-002	sg sep	750-010000	750-010000	SS-316	575	575.02	0.54479	0.54823
1901-001	3-lp sg sh	725-020000	0	SA-508	559.35	558.8	0.10385	0
1901-002	3-lp sg sh	725-030000	0	SA-508	559.03	558.58	0.10411	0
1901-003	3-lp sg sh	725-040000	0	SA-508	558.63	558.42	0.10481	0
1902-001	3-lp sg sh	725-010000	0	SA-508	559.38	558.97	0.04039	0
1903-001	3-lp sg sh	745-010000	0	SA-508	568.2	558.95	0.27282	0
1903-002	3-lp sg sh	723-010000	0	SA-508	559.31	559.09	0.04180	0
1903-003	3-lp sg sh	739-010000	0	SA-508	561.13	559.08	0.08754	0
1903-004	3-lp sg sh	750-010000	0	SA-508	569.8	558.69	0.33125	0
1903-005	3-lp sg sh	760-010000	0	SA-508	569.54	558.68	0.31319	0
1904-001	3-lp sg sh	770-010000	0	SA-508	570.16	558.62	0.36350	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	565.06	566.32	0.04581	0.06056
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	547.58	547.58	0.08497	0.08497
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	485.8	485.8	0.14801	0.14801
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	545.49	545.49	0.08969	0.08969
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	544.17	544.17	0.08916	0.08916
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	550.11	550.11	0.07692	0.07692
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	553.32	553.32	0.07116	0.07116
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	555.1	555.1	0.06716	0.06716
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	556.39	556.39	0.06598	0.06598
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	556.33	556.33	0.06887	0.06887
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	557.22	557.22	0.06528	0.06528
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	557.32	557.32	0.06415	0.06415
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	494.91	494.91	0.14802	0.14802
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	502.41	502.41	0.14802	0.14802
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	509.58	509.58	0.14800	0.14800

Table CLDt1-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 20.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	519.24	519.24	0.14797	0.14797
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	530.48	530.48	0.14745	0.14745
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	538.9	538.9	0.14682	0.14682
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	545.31	545.31	0.13094	0.13094
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	551.22	551.22	0.10390	0.10390
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	555.12	555.12	0.08584	0.08584
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	484.9	535.83	0.44446	0.10481
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	482.03	536.73	0.44408	0.10411
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	477.01	536.49	0.44362	0.10385
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	491.15	537.35	0.12998	0.10885
7301-001	3-lp DC	730-010000	725-040000	SS-316	545.73	556.43	0.08362	0.10481
7301-002	3-lp DC	730-020000	725-040000	SS-316	540.48	555.69	0.08657	0.10481
7301-003	3-lp DC	730-030000	725-040000	SS-316	539.02	555.53	0.08589	0.10481
7301-004	3-lp DC	730-040000	725-040000	SS-316	547.68	556.32	0.07438	0.10481
7301-005	3-lp DC	730-050000	725-030000	SS-316	551.74	558.06	0.06903	0.10411
7301-006	3-lp DC	730-060000	725-030000	SS-316	553.84	558.43	0.06510	0.10411
7301-007	3-lp DC	730-070000	725-030000	SS-316	555.03	558.78	0.06361	0.10411
7301-008	3-lp DC	732-010000	725-020000	SS-316	554.8	559.17	0.06655	0.10385
7301-009	3-lp DC	734-010000	725-020000	SS-316	555.91	559.39	0.06290	0.10385
7301-010	3-lp DC	736-010000	725-010000	SS-316	556.35	559.91	0.06231	0.04039
7301-011	3-lp DC	738-010000	725-010000	SS-316	563.26	562.54	0.03988	0.04516
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	481.58	476.74	0.14801	0.44446
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	485.25	477.52	0.14802	0.44446
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	489.14	478.29	0.14802	0.44446
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	493.31	479.02	0.14800	0.44446
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	499.45	477.08	0.14797	0.44408
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	507.39	478.16	0.14745	0.44408
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	514.07	478.97	0.14682	0.44408
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	518.01	474.32	0.13094	0.44362
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	520.76	474.57	0.10390	0.44362
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	527.12	489.87	0.08584	0.12998
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	536.36	492.26	0.07526	0.12998

Table CLDt1-6: CLPD LOCA Case 30: SG Fluid Conditions (t= 20.5 seconds)

Table CLDt1-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	558.63	573.67
623-010000	366.645	0.000	560.69	573.67
624-010000	155.893	0.000	458.45	573.90
624-020000	43.006	0.000	463.52	574.21
624-030000	59.135	0.000	469.82	574.61
624-040000	43.006	0.000	473.56	575.01
625-010000	180.020	0.000	559.91	573.88
625-020000	73.345	0.000	559.12	574.19
625-030000	100.851	0.000	557.73	574.55
625-040000	73.345	0.000	547.12	574.92
630-010000	70.116	0.000	503.91	575.06
630-020000	70.116	0.000	494.64	574.98
630-030000	70.116	0.000	490.86	574.89
630-040000	70.116	0.000	488.81	574.81
630-050000	105.180	0.000	489.89	574.71
630-060000	140.232	0.000	494.44	574.56
630-070000	140.232	0.000	506.56	574.40
631-010000	70.116	0.000	477.62	575.07
631-020000	70.116	0.000	480.93	574.99
631-030000	70.116	0.000	484.15	574.90
631-040000	70.116	0.000	487.68	574.82
631-050000	105.180	0.000	493.55	574.71
631-060000	140.232	0.000	501.44	574.57
631-070000	140.232	0.000	508.48	574.40
632-010000	140.232	0.000	513.38	574.23
633-010000	140.232	0.000	514.16	574.24
634-010000	140.232	0.000	518.01	574.07
635-010000	140.232	0.000	519.00	574.07
636-010000	86.672	0.000	521.36	573.94
637-010000	86.672	0.000	519.94	573.94
638-010000	609.522	0.000	548.27	573.79
639-010000	635.282	0.267	561.52	579.48

Table CLDt1-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.000	556.29	573.62
641-010000	117.514	0.167	558.78	576.62
642-010000	320.019	0.988	563.02	576.59
645-010000	1075.296	1.000	573.51	579.88
650-010000	830.204	1.000	573.43	577.36
660-010000	703.676	1.000	573.42	579.66
670-010000	400.000	1.000	573.42	579.07
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	557.79	576.06
723-010000	1099.935	0.000	560.80	576.06
724-010000	467.679	0.000	457.73	576.29
724-020000	129.019	0.000	462.82	576.59
724-030000	177.404	0.000	469.39	576.99
724-040000	129.019	0.000	473.36	577.38
725-010000	540.019	0.000	560.03	576.27
725-020000	220.035	0.000	559.40	576.56
725-030000	302.553	0.000	558.62	576.92
725-040000	220.035	0.000	552.55	577.28
730-010000	210.349	0.000	517.71	577.40
730-020000	210.349	0.000	507.55	577.32
730-030000	210.349	0.000	507.08	577.24
730-040000	210.349	0.000	530.72	577.16
730-050000	315.541	0.000	539.51	577.07
730-060000	420.697	0.000	544.32	576.93
730-070000	420.697	0.000	546.42	576.78
731-010000	210.349	0.000	477.45	577.45
731-020000	210.349	0.000	481.12	577.37
731-030000	210.349	0.000	485.14	577.28
731-040000	210.349	0.000	489.79	577.20
731-050000	315.541	0.000	497.97	577.10
731-060000	420.697	0.000	509.06	576.95

Table CLDt1-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 20.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.000	519.12	576.79
732-010000	420.697	0.000	544.42	576.63
733-010000	420.697	0.000	527.68	576.63
734-010000	420.697	0.000	547.71	576.47
735-010000	420.697	0.000	536.10	576.48
736-010000	260.017	0.000	548.48	576.35
737-010000	260.017	0.000	540.65	576.35
738-010000	1828.567	0.000	559.77	576.20
739-010000	1905.846	0.226	561.93	584.10
740-010000	375.926	0.000	563.47	576.04
741-010000	352.543	0.051	564.94	575.93
742-010000	960.056	0.889	565.35	580.27
745-010000	3225.888	0.999	569.54	585.39
750-010000	2490.612	1.000	575.83	582.34
760-010000	2111.028	1.000	575.82	584.01
770-010000	1200.000	1.000	575.81	583.19

Table CLDt2-1: CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

Table CLDt2-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.7	590.09
1001-002	3-lp HL	63.6	586.79
1001-003	3-lp HL	63.8	598.79
1001-004	3-lp HL	63.6	587.46
1081-001	1-lp sg ch	64.0	618.34
1081-002	1-lp sg ch	63.3	562.83
1082-001	3-lp sg ch	64.0	612.85
1082-002	3-lp sg ch	63.3	563.64
1091-001	1-lp sg ch	61.5	438.04
1091-002	1-lp sg ch	63.0	519.91
1092-001	3-lp sg ch	63.4	544.57
1092-002	3-lp sg ch	63.3	537.05
1251-001	3-lp SG tube	62.6	495.49
1251-002	3-lp SG tube	62.5	491.03
1251-003	3-lp SG tube	62.6	497.75
1251-004	3-lp SG tube	63.0	518.61
1251-005	3-lp SG tube	63.1	527.01
1251-006	3-lp SG tube	63.2	531.53
1251-007	3-lp SG tube	63.2	532.81
1251-008	3-lp SG tube	63.1	525.79
1251-009	3-lp SG tube	63.2	531.94
1251-010	3-lp SG tube	63.2	533.98
1251-011	3-lp SG tube	63.0	522.69
1251-012	3-lp SG tube	62.9	517
1251-013	3-lp SG tube	62.8	506.96
1251-014	3-lp SG tube	62.6	497.83
1251-015	3-lp SG tube	62.4	488.38
1251-016	3-lp SG tube	62.3	479.29
1251-017	3-lp SG tube	62.2	472.9
1251-018	3-lp SG tube	62.1	468.57
1251-019	3-lp SG tube	62.0	464.21
1251-020	3-lp SG tube	61.9	460.07

Table CLDt2-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.2	556.67
1401-002	3-lp CL	63.2	556.61
1401-003	3-lp CL	63.2	556.42
1401-004	3-lp CL	63.2	556.3
1401-005	3-lp CL	63.2	556.13
1401-006	3-lp CL	63.2	556.64
1701-001	3-lp CLd	63.2	555.97
1701-002	3-lp CLd	63.2	556.05
1701-003	3-lp CLd	63.2	555.11
1701-004	3-lp CLd	63.2	555.7
1905-001	3-lp sg sh	63.6	553.34
1805-001	1-lp sg sh	63.8	563.97
2001-001	1-lp HL	63.9	609.35
2001-002	1-lp HL	64.0	612.47
2001-003	1-lp HL	64.0	613.15
2001-004	1-lp HL	64.0	613.57
2251-001	sngl tube	62.0	463.38
2251-002	sngl tube	62.1	468.63
2251-003	sngl tube	62.2	473.86
2251-004	sngl tube	62.2	477.42
2251-005	sngl tube	62.3	482.41
2251-006	sngl tube	62.5	490.08
2251-007	sngl tube	62.6	499.68
2251-008	sngl tube	62.7	504.57
2251-009	sngl tube	62.8	509.87
2251-010	sngl tube	62.9	516.78
2251-011	sngl tube	62.8	509.96
2251-012	sngl tube	62.8	507.53
2251-013	sngl tube	62.7	501.53
2251-014	sngl tube	62.6	495.29
2251-015	sngl tube	62.4	488.39
2251-016	sngl tube	62.3	481.34

Table CLDt2-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	62.2	475.81
2251-018	sngl tube	62.1	471.58
2251-019	sngl tube	62.1	467.06
2251-020	sngl tube	62.0	462.48
2401-001	1-lp CL suc	63.2	557.11
2401-002	1-lp CL suc	63.2	557.02
2401-003	1-lp CL suc	63.2	556.91
2401-004	1-lp CL suc	63.2	556.82
2401-005	1-lp CL suc	63.2	556.64
2401-006	1-lp CL suc	63.2	555.99
2701-001	1-lp CL dis	63.2	555.86
2701-002	1-lp CL dis	63.0	544.72
2701-003	1-lp CL dis	62.9	541.03
2701-004	1-lp CL dis	63.0	547.57
101-001	RPV head	63.6	564.21
101-002	RPV head	65.3	559.16
102-001	RPV head flange	63.5	563.12
103-001	RPV nozzle	63.5	562.17
103-002	RPV nozzle	63.5	561.31
104-001	RPV int shell	63.5	559.16
104-002	RPV int shell	63.4	556.32
104-003	RPV int shell	63.4	556.04
105-001	RPV lower shell	63.4	555.25
105-002	RPV lower shell	63.4	555.32
106-001	RPV lower hd	63.4	549.88
106-002	RPV lower hd	65.2	552.44
201-001	core barrel	63.4	575.25
201-002	core barrel	63.2	558.53
201-003	core barrel	62.7	526.29
201-004	core barrel	62.7	524.92
201-005	core barrel	62.7	523.99
201-006	core barrel	62.7	523.63

Table CLDt2-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	62.3	500.59
203-001	fl dis dvce	60.4	379.68
204-001	HR	62.9	538.99
204-002	HR	62.9	540.48
204-003	HR	63.0	542.5
204-004	HR	63.0	547.22
204-005	HR	63.1	548.03
204-006	HR	63.1	549.3
204-007	HR	63.1	549.76
204-008	HR	63.1	550.71
204-009	HR	63.1	552.09
204-010	HR	63.1	553.1
204-011	HR	63.1	553.72
204-012	HR	63.2	555.28
204-013	HR	63.2	556.41
204-014	HR	63.2	554.88
204-015	HR	63.2	556.88
204-016	HR	63.2	557.14
204-017	HR	63.2	558.07
204-018	HR	63.2	559.08
204-019	HR	63.2	559.97
204-020	HR	63.3	564.09
204-021	HR	63.3	564.89
204-022	HR	63.3	565.53
204-023	HR	63.3	565.87
204-024	HR	63.3	566.3
204-025	HR	63.3	566.08
204-026	HR	63.3	566.14
204-027	HR	63.3	566.35
204-028	HR	63.3	565.8
205-001	UPR core plt	62.9	535.85
206-001	LMP	62.6	519.06
206-002	LMP	63.9	609.79

Table CLDt2-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.3	567.14
208-001	CRGA	62.2	493.56
208-002	CRGA	63.9	604.92
208-003	CRGA	60.6	390.59
4001-001	pzr srg	66.2	592.84
4101-001	pzr srg	67.5	643.69
4101-002	pzr srg	67.6	649.62
4101-003	pzr srg	67.7	651.8
4101-004	pzr srg	67.7	653.95
4101-005	pzr srg	67.8	654.66
4101-006	pzr srg	67.8	654.64
4201-001	prz hd	67.4	638.66
4301-001	prz upr hd	67.8	655.78
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	42.9	349.89
301-002	FUEL ASS	44.0	437.95
301-003	FUEL ASS	44.2	450.22
301-004	FUEL ASS	44.6	490.6
301-005	FUEL ASS	44.7	499.37
301-006	FUEL ASS	44.8	506.88
301-007	FUEL ASS	44.8	506.95
301-008	FUEL ASS	44.8	511.14
301-009	FUEL ASS	44.9	515.86
301-010	FUEL ASS	44.9	518.8
301-011	FUEL ASS	44.9	520.69
301-012	FUEL ASS	44.9	521.66
301-013	FUEL ASS	44.9	518.41
301-014	FUEL ASS	44.9	514.33
301-015	FUEL ASS	44.8	508.47

Table CLDt2-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-016	FUEL ASS	44.7	498.68
301-017	FUEL ASS	44.5	479.3
301-018	FUEL ASS	44.4	466.62
301-019	FUEL ASS	44.2	450.92
301-020	FUEL ASS	44.0	433.31
301-021	FUEL ASS	43.8	422.54
301-022	FUEL ASS	43.7	411.25
301-023	FUEL ASS	43.5	393.27
301-024	FUEL ASS	43.4	384.69
301-025	FUEL ASS	43.3	375.74
301-026	FUEL ASS	43.2	373.16
301-027	FUEL ASS	43.3	378.98
301-028	FUEL ASS	42.8	340.28
301-001	**Fuel Cladding**	**29.9**	**349.89**
301-002	**Fuel Cladding**	**30.3**	**437.95**
301-003	**Fuel Cladding**	**30.3**	**450.22**
301-004	**Fuel Cladding**	**30.5**	**490.6**
301-005	**Fuel Cladding**	**30.6**	**499.37**
301-006	**Fuel Cladding**	**30.6**	**506.88**
301-007	**Fuel Cladding**	**30.6**	**506.95**
301-008	**Fuel Cladding**	**30.6**	**511.14**
301-009	**Fuel Cladding**	**30.6**	**515.86**
301-010	**Fuel Cladding**	**30.7**	**518.8**
301-011	**Fuel Cladding**	**30.7**	**520.69**
301-012	**Fuel Cladding**	**30.7**	**521.66**
301-013	**Fuel Cladding**	**30.7**	**518.41**
301-014	**Fuel Cladding**	**30.6**	**514.33**
301-015	**Fuel Cladding**	**30.6**	**508.47**
301-016	**Fuel Cladding**	**30.6**	**498.68**
301-017	**Fuel Cladding**	**30.5**	**479.3**
301-018	**Fuel Cladding**	**30.4**	**466.62**
301-019	**Fuel Cladding**	**30.3**	**450.92**
301-020	**Fuel Cladding**	**30.2**	**433.31**

Table CLDt2-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-021	**Fuel Cladding**	**30.2**	**422.54**
301-022	**Fuel Cladding**	**30.1**	**411.25**
301-023	**Fuel Cladding**	**30.1**	**393.27**
301-024	**Fuel Cladding**	**30.0**	**384.69**
301-025	**Fuel Cladding**	**30.0**	**375.74**
301-026	**Fuel Cladding**	**30.0**	**373.16**
301-027	**Fuel Cladding**	**30.0**	**378.98**
301-028	**Fuel Cladding**	**29.8**	**340.28**

Table CLDt2-2: CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

Table CLDt2-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	440.85	625.58	0.00551	0
1001-002	3-lp HL	105-010000	0	SS-316	421.58	625.58	0.00514	0
1001-003	3-lp HL	110-010000	0	SS-316	487.48	625.6	0.00661	0
1001-004	3-lp HL	115-010000	0	SS-316	424.21	625.58	0.00873	0
1081-001	1-lp sg ch	220-010000	0	SS-316	583.42	625.76	0.00203	0
1081-002	1-lp sg ch	230-010000	0	SS-316	552.85	564.86	0.00208	0
1082-001	3-lp sg ch	120-010000	0	SS-316	543.32	625.76	0.00267	0
1082-002	3-lp sg ch	130-010000	0	SS-316	556.97	564.85	0.00179	0
1091-001	1-lp sg ch	221-010000	0	alloy690	435.83	438.58	0.01202	0
1091-002	1-lp sg ch	229-010000	0	alloy690	519.05	520.14	0.01328	0
1092-001	3-lp sg ch	121-010000	0	alloy690	542.11	545.17	0.00733	0
1092-002	3-lp sg ch	129-010000	0	alloy690	535.25	537.47	0.01134	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	494.82	496.12	0.00758	0.09120
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	490.48	491.51	0.00775	0.08353
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	497.22	498.19	0.00786	0.08134
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	518.07	519.03	0.00792	0.07954
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	526.46	527.47	0.00808	0.08380
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	530.99	531.99	0.00834	0.08492
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	532.28	533.28	0.00867	0.08537
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	525.32	526.17	0.00903	0.07902
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	531.43	532.36	0.00932	0.10930
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	533.45	534.42	0.00964	0.13139
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	522.25	523.01	0.00998	0.12082
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	516.6	517.29	0.01028	0.14381
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	506.61	507.18	0.01059	0.18032
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	497.52	498.02	0.01087	0.20183
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	488.11	488.54	0.01112	0.20201
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	479.06	479.42	0.01132	0.20210
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	472.69	473	0.01145	0.20212
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	468.38	468.65	0.01154	0.20212
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	464.04	464.28	0.01162	0.20209

Table CLDt2-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	459.9	460.15	0.01169	0.20205
1401-001	3-lp CL	135-010000	0	SS-316	523.03	564.75	0.01174	0
1401-002	3-lp CL	140-010000	0	SS-316	522.69	564.75	0.01168	0
1401-003	3-lp CL	145-010000	0	SS-316	521.67	564.75	0.01285	0
1401-004	3-lp CL	150-010000	0	SS-316	521.1	564.75	0.01268	0
1401-005	3-lp CL	155-010000	0	SS-316	520.22	564.74	0.01256	0
1401-006	3-lp CL	160-010000	0	SS-316	521.34	565.12	0.01075	0
1701-001	3-lp CLd	165-010000	0	SS-316	516.56	565.43	0.01191	0
1701-002	3-lp CLd	170-010000	0	SS-316	516.92	565.43	0.01187	0
1701-003	3-lp CLd	175-010000	0	SS-316	512.16	565.43	0.01209	0
1701-004	3-lp CLd	180-010000	0	SS-316	515.19	565.43	0.01162	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	432.36	554.08	0.00369	0.00179
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	512.93	539.91	0.00207	0.00208
2001-001	1-lp HL	200-010000	0	SS-316	539.09	625.66	0.01369	0
2001-002	1-lp HL	205-010000	0	SS-316	555.45	625.66	0.01357	0
2001-003	1-lp HL	210-010000	0	SS-316	559.2	625.66	0.01351	0
2001-004	1-lp HL	215-010000	0	SS-316	561.54	625.66	0.01311	0
2251-001	sngl tube	225-010000	630-010000	alloy690	462.66	464.04	0.01200	0.08847
2251-002	sngl tube	225-020000	630-020000	alloy690	468.02	469.19	0.01218	0.08578
2251-003	sngl tube	225-030000	630-030000	alloy690	473.32	474.34	0.01232	0.08305
2251-004	sngl tube	225-040000	630-040000	alloy690	476.93	477.87	0.01245	0.08215
2251-005	sngl tube	225-050000	630-050000	alloy690	481.96	482.82	0.01257	0.08090
2251-006	sngl tube	225-060000	630-060000	alloy690	489.66	490.46	0.01270	0.07999
2251-007	sngl tube	225-070000	630-070000	alloy690	499.28	500.03	0.01286	0.07823
2251-008	sngl tube	225-080000	632-010000	alloy690	504.22	504.85	0.01304	0.07471
2251-009	sngl tube	225-090000	634-010000	alloy690	509.55	510.14	0.01320	0.07421
2251-010	sngl tube	225-100000	636-010000	alloy690	516.49	517.01	0.01332	0.07145
2251-011	sngl tube	225-110000	637-010000	alloy690	509.79	510.07	0.01405	0.14762
2251-012	sngl tube	225-120000	635-010000	alloy690	507.44	507.57	0.01390	0.16546
2251-013	sngl tube	225-130000	633-010000	alloy690	501.52	501.49	0.01378	0.19115
2251-014	sngl tube	225-140000	631-070000	alloy690	495.33	495.19	0.01367	0.20542

Table CLDt2-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	488.47	488.26	0.01355	0.20540
2251-016	sngl tube	225-160000	631-050000	alloy690	481.46	481.19	0.01350	0.20530
2251-017	sngl tube	225-170000	631-040000	alloy690	475.95	475.63	0.01348	0.20520
2251-018	sngl tube	225-180000	631-030000	alloy690	471.73	471.39	0.01345	0.20511
2251-019	sngl tube	225-190000	631-020000	alloy690	467.22	466.87	0.01341	0.20500
2251-020	sngl tube	225-200000	631-010000	alloy690	462.64	462.3	0.01337	0.20487
2401-001	1-lp CL suc	235-010000	0	SS-316	524.44	564.76	0.01392	0
2401-002	1-lp CL suc	240-010000	0	SS-316	523.97	564.76	0.01390	0
2401-003	1-lp CL suc	245-010000	0	SS-316	523.41	564.77	0.01388	0
2401-004	1-lp CL suc	250-010000	0	SS-316	523	564.76	0.01385	0
2401-005	1-lp CL suc	255-010000	0	SS-316	522.08	564.76	0.01383	0
2401-006	1-lp CL suc	260-010000	0	SS-316	518.01	565.13	0.01354	0
2701-001	1-lp CL dis	265-010000	0	SS-316	514.37	565.68	0.01359	0
2701-002	1-lp CL dis	270-010000	0	SS-316	448.92	565.68	0.01437	0
2701-003	1-lp CL dis	275-010000	0	SS-316	436.81	565.63	0.02835	0
2701-004	1-lp CL dis	280-010000	0	SS-316	469.02	565.66	0.02730	0
101-001	RPV head	94-010000	0	alloy600	550.75	565.61	0.00104	0
101-002	RPV head	90-010000	0	SA-508	382.51	565.32	0.76138	0
102-001	RPV head flange	90-010000	0	alloy600	382.41	565.32	0.75974	0
103-001	RPV nozzle	10-010000	0	alloy600	475.03	565.56	0.00078	0
103-002	RPV nozzle	12-010000	0	alloy600	462.82	565.54	0.00039	0
104-001	RPV int shell	12-010000	0	alloy600	465.87	565.54	0.00039	0
104-002	RPV int shell	14-010000	0	alloy600	334.67	565.57	0.28049	0
104-003	RPV int shell	16-010000	0	alloy600	321.63	565.58	0.96366	0
105-001	RPV lower shell	16-010000	0	alloy600	321.49	565.58	0.95608	0
105-002	RPV lower shell	18-010000	0	alloy600	323.19	565.59	0.85467	0
106-001	RPV lower hd	18-010000	0	alloy600	322.7	565.59	0.82894	0
106-002	RPV lower hd	20-010000	0	SA-508	327.64	565.6	0.88218	0
201-001	core barrel	10-010000	86-010000	SS-316	473.31	600.26	0.00079	0.00085
201-002	core barrel	12-010000	84-010000	SS-316	453.78	549.54	0.00036	0.00248
201-003	core barrel	14-010000	80-040000	SS-316	331.6	507.88	0.25314	0.06405

Table CLDt2-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	331.6	499.08	0.25310	0.05380
201-005	core barrel	16-010000	80-020000	SS-316	318.49	494.8	0.79578	0.04399
201-006	core barrel	16-010000	80-010000	SS-316	318.49	454.7	0.79573	0.13251
202-001	low sup plate	22-010000	0	SS-316	339.67	553.87	1.75990	0
203-001	fl dis dvce	22-010000	0	SS-316	314.89	417.6	0.47676	0
204-001	HR	24-010000	80-010000	SS-316	318.92	457.85	0.76898	0.12695
204-002	HR	26-010000	80-010000	SS-316	326.27	459.63	1.10000	0.12397
204-003	HR	28-010000	80-010000	SS-316	351.04	461.54	0.00108	0.12091
204-004	HR	30-010000	80-010000	SS-316	506.34	463.35	0.00088	0.11813
204-005	HR	32-010000	80-010000	SS-316	506.22	464.81	0.00093	0.11596
204-006	HR	34-010000	80-010000	SS-316	507.98	466.58	0.00095	0.11341
204-007	HR	36-010000	80-020000	SS-316	506.65	496.63	0.00100	0.04375
204-008	HR	38-010000	80-020000	SS-316	505.67	497.01	0.00105	0.04370
204-009	HR	40-010000	80-020000	SS-316	507.06	497.41	0.00108	0.04365
204-010	HR	42-010000	80-020000	SS-316	505.79	497.81	0.00113	0.04360
204-011	HR	44-010000	80-020000	SS-316	501.25	498.22	0.00119	0.04355
204-012	HR	46-010000	80-020000	SS-316	503.45	498.64	0.00123	0.04349
204-013	HR	48-010000	80-020000	SS-316	502.12	499.07	0.00128	0.04344
204-014	HR	50-010000	80-030000	SS-316	478.62	503.53	0.00135	0.05369
204-015	HR	52-010000	80-030000	SS-316	485.39	503.91	0.00139	0.05368
204-016	HR	54-010000	80-030000	SS-316	478.42	504.28	0.00145	0.05367
204-017	HR	56-010000	80-030000	SS-316	477.52	504.61	0.14133	0.05366
204-018	HR	58-010000	80-030000	SS-316	477.4	504.92	0.14130	0.05365
204-019	HR	60-010000	80-030000	SS-316	478.87	505.2	0.00078	0.05364
204-020	HR	62-010000	80-040000	SS-316	478.7	525.73	0.00082	0.06350
204-021	HR	64-010000	80-040000	SS-316	479.49	525.99	0.00150	0.06349
204-022	HR	66-010000	80-040000	SS-316	479.76	526.24	0.00211	0.06348
204-023	HR	68-010000	80-040000	SS-316	479.33	526.44	0.00256	0.06348
204-024	HR	70-010000	80-040000	SS-316	479.99	526.6	0.00271	0.06347
204-025	HR	72-010000	80-040000	SS-316	479.08	526.68	0.00283	0.06347
204-026	HR	74-010000	80-040000	SS-316	478.65	526.75	0.00291	0.06347
204-027	HR	76-010000	80-040000	SS-316	479.48	526.79	0.00291	0.06347

Table CLDt2-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	479.68	526.53	0.00320	0.06347
205-001	UPR core plt	84-010000	0	SS-316	505.14	563.87	0.00244	0
206-001	LMP	84-010000	0	SS-316	517.84	519.74	0.00245	0
206-002	LMP	86-010000	0	SS-316	608.74	610.33	0.00086	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	614.77	462.12	0.00087	0.08953
208-001	CRGA	84-010000	0	SS-316	492.79	493.99	0.00244	0
208-002	CRGA	86-010000	0	SS-316	604.09	605.4	0.00086	0
208-003	CRGA	92-010000	0	SS-316	354.73	411.23	0.80226	0
4001-001	pzr srg	400-010000	0	SA-508	516.75	622.31	0.06113	0
4101-001	pzr srg	410-010000	0	SA-508	625.81	646.64	0.00148	0
4101-002	pzr srg	410-020000	0	SA-508	635.74	651.9	0.00149	0
4101-003	pzr srg	410-030000	0	SA-508	641.13	653.51	0.00150	0
4101-004	pzr srg	410-040000	0	SA-508	646.58	655.06	0.00151	0
4101-005	pzr srg	410-050000	0	SA-508	651.12	655.04	0.00151	0
4101-006	pzr srg	410-060000	0	SA-508	651.05	655.02	0.00170	0
4201-001	prz hd	408-010000	0	SA-508	611.55	643.25	0.00219	0
4301-001	prz upr hd	412-010000	0	SA-508	651.98	656.21	0.00171	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLDt2-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	**Fuel Cladding**	**0**	**24-010000**	**cladding**		**268.93**		**0.15101**
301-002	**Fuel Cladding**	**0**	**26-010000**	**cladding**		**293.49**		**0.09858**
301-003	**Fuel Cladding**	**0**	**28-010000**	**cladding**		**330.99**		**0.04391**
301-004	**Fuel Cladding**	**0**	**30-010000**	**cladding**		**485.31**		**6.22E-05**
301-005	**Fuel Cladding**	**0**	**32-010000**	**cladding**		**493.58**		**3.83E-06**
301-006	**Fuel Cladding**	**0**	**34-010000**	**cladding**		**500.44**		**8.08E-06**
301-007	**Fuel Cladding**	**0**	**36-010000**	**cladding**		**499.84**		**1.87E-06**
301-008	**Fuel Cladding**	**0**	**38-010000**	**cladding**		**503.42**		**1.39E-05**
301-009	**Fuel Cladding**	**0**	**40-010000**	**cladding**		**507.53**		**2.46E-05**
301-010	**Fuel Cladding**	**0**	**42-010000**	**cladding**		**509.76**		**4.90E-05**
301-011	**Fuel Cladding**	**0**	**44-010000**	**cladding**		**511.28**		**6.74E-05**
301-012	**Fuel Cladding**	**0**	**46-010000**	**cladding**		**511.92**		**8.63E-05**
301-013	**Fuel Cladding**	**0**	**48-010000**	**cladding**		**508.26**		**0.00012**
301-014	**Fuel Cladding**	**0**	**50-010000**	**cladding**		**504.21**		**0.00015**
301-015	**Fuel Cladding**	**0**	**52-010000**	**cladding**		**498.42**		**0.00018**

Table CLDt2-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	**Fuel Cladding**	**0**	**54-010000**	**cladding**		**488.57**		**0.00020**
301-017	**Fuel Cladding**	**0**	**56-010000**	**cladding**		**466.12**		**0.04069**
301-018	**Fuel Cladding**	**0**	**58-010000**	**cladding**		**446.04**		**0.04367**
301-019	**Fuel Cladding**	**0**	**60-010000**	**cladding**		**420.79**		**0.05137**
301-020	**Fuel Cladding**	**0**	**62-010000**	**cladding**		**391.14**		**0.08296**
301-021	**Fuel Cladding**	**0**	**64-010000**	**cladding**		**375.73**		**0.09799**
301-022	**Fuel Cladding**	**0**	**66-010000**	**cladding**		**357.02**		**0.11891**
301-023	**Fuel Cladding**	**0**	**68-010000**	**cladding**		**339.83**		**0.10180**
301-024	**Fuel Cladding**	**0**	**70-010000**	**cladding**		**339.94**		**0.05859**
301-025	**Fuel Cladding**	**0**	**72-010000**	**cladding**		**335.17**		**0.05361**
301-026	**Fuel Cladding**	**0**	**74-010000**	**cladding**		**332.38**		**0.05056**
301-027	**Fuel Cladding**	**0**	**76-010000**	**cladding**		**335.43**		**0.03886**
301-028	**Fuel Cladding**	**0**	**78-010000**	**cladding**		**328.36**		**0.05873**

Table CLDt2-3: CLPD LOCA Case 30: RCS Fluid Conditions (t= 30.5 seconds)

Table CLDt2-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.995	302.7	315.4
105-010000	112.108	0.999	302.8	318.0
110-010000	90.692	1.000	306.8	302.8
115-010000	99.530	1.000	305.4	305.4
117-010000	34.487	0.999	305.3	305.5
120-010000	605.616	0.956	303.0	308.4
121-010000	90.006	0.988	304.3	346.7
125-010000	104.546	0.991	304.6	365.2
125-020000	104.546	0.992	304.7	373.8
125-030000	104.546	0.993	304.6	381.1
125-040000	104.546	0.994	304.6	392.2
125-050000	156.828	0.996	304.6	407.0
125-060000	209.092	0.998	304.5	422.1
125-070000	209.092	0.998	304.4	431.4
125-080000	209.092	0.998	304.3	433.0
125-090000	209.092	0.998	304.2	436.1
125-100000	182.764	0.998	304.0	439.2
125-110000	182.764	0.998	303.9	438.3
125-120000	209.092	0.998	303.7	437.9
125-130000	209.092	0.999	303.6	436.3
125-140000	209.092	0.999	303.4	434.6
125-150000	209.092	0.999	303.3	432.6
125-160000	156.828	0.999	303.1	430.3
125-170000	104.546	0.999	303.0	428.4
125-180000	104.546	0.999	303.0	426.9
125-190000	104.546	0.999	302.9	425.6
125-200000	104.546	0.999	302.8	424.4
129-010000	90.006	1.000	302.7	442.3
130-010000	605.616	1.000	302.7	397.7
132-010000	34.487	1.000	302.3	393.7
135-010000	51.857	1.000	302.2	392.0
140-010000	61.586	1.000	302.2	390.4

Table CLDt2-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	302.1	388.5
150-010000	102.591	1.000	302.2	392.9
155-010000	108.946	1.000	302.1	392.6
160-010000	413.100	1.000	300.6	414.4
165-010000	105.120	1.000	299.2	417.3
170-010000	105.120	1.000	298.9	424.5
175-010000	135.835	1.000	298.7	432.8
180-010000	116.691	1.000	299.0	439.4
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.997	304.2	311.8
205-010000	37.369	0.996	303.7	314.2
210-010000	30.231	0.999	303.7	316.1
215-010000	33.177	0.999	304.7	316.2
217-010000	11.496	1.000	304.7	315.4
220-010000	201.872	0.998	304.9	311.8
221-010000	30.002	0.999	304.9	340.2
225-010000	34.849	0.999	304.8	369.6
225-020000	34.849	0.999	304.7	389.7
225-030000	34.849	0.999	304.6	404.1
225-040000	34.849	0.999	304.5	414.4
225-050000	52.276	0.999	304.3	425.1
225-060000	69.697	0.999	304.2	436.1
225-070000	69.697	0.999	303.9	447.2
225-080000	69.697	1.000	303.7	456.9
225-090000	69.697	1.000	303.5	466.6
225-100000	60.921	1.000	303.3	476.3
225-110000	60.921	1.000	303.1	481.7
225-120000	69.697	1.000	303.0	486.8
225-130000	69.697	1.000	302.8	489.6
225-140000	69.697	1.000	302.6	491.1
225-150000	69.697	1.000	302.4	490.3

Table CLDt2-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	1.000	302.3	487.6
225-170000	34.849	1.000	302.2	484.3
225-180000	34.849	1.000	302.1	480.7
225-190000	34.849	1.000	302.0	476.8
225-200000	34.849	1.000	301.9	472.6
229-010000	30.002	1.000	301.9	486.2
230-010000	201.872	1.000	301.9	489.3
232-010000	11.496	1.000	301.2	487.1
235-010000	17.286	1.000	301.1	487.5
240-010000	20.529	1.000	301.1	487.8
245-010000	38.892	1.000	301.0	488.6
250-010000	34.197	1.000	300.9	488.9
255-010000	36.315	1.000	300.9	489.5
260-010000	137.700	1.000	298.6	505.0
265-010000	35.040	1.000	296.4	497.7
270-010000	35.040	0.998	295.2	451.5
275-010000	45.278	1.000	292.7	381.7
280-010000	38.897	1.000	293.4	384.8
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	1.000	299.4	396.3
12-010000	184.160	1.000	299.3	410.8
14-010000	366.488	0.706	297.7	303.3
16-010000	414.895	0.000	280.6	303.2
18-010000	120.792	0.000	255.5	306.6
20-010000	212.629	0.000	177.8	307.7
22-010000	315.096	0.000	217.2	306.6
24-010000	45.438	0.039	242.9	305.9
26-010000	48.504	0.306	265.4	310.1
28-010000	48.504	0.996	306.1	379.7
30-010000	35.789	1.000	305.4	477.6

Table CLDt2-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
32-010000	35.789	1.000	305.8	495.1
34-010000	35.789	1.000	306.1	500.0
36-010000	35.789	1.000	306.0	501.3
38-010000	35.789	1.000	305.5	502.6
40-010000	35.789	1.000	305.2	504.0
42-010000	35.789	1.000	305.2	503.8
44-010000	35.789	1.000	305.2	501.8
46-010000	35.789	1.000	305.2	499.0
48-010000	35.789	1.000	305.2	493.8
50-010000	35.789	1.000	305.2	485.3
52-010000	35.789	1.000	305.4	475.4
54-010000	33.109	1.000	305.8	468.6
56-010000	33.109	1.000	311.3	499.6
58-010000	33.109	1.000	310.1	539.0
60-010000	33.109	0.999	306.6	470.7
62-010000	33.109	0.998	306.1	406.5
64-010000	33.109	0.998	306.1	379.2
66-010000	33.109	0.997	306.1	361.3
68-010000	33.109	0.993	306.0	349.4
70-010000	33.109	0.996	306.0	342.6
72-010000	21.064	0.995	305.9	338.6
74-010000	21.064	0.994	305.9	335.2
76-010000	21.051	0.996	305.8	333.4
78-010000	86.638	0.994	304.9	336.4
80-010000	5.964	0.971	310.9	322.7
80-020000	4.483	0.975	305.7	331.1
80-030000	4.951	0.981	299.7	314.5
80-040000	5.894	0.993	290.9	365.4
82-010000	28.768	0.570	284.1	298.0
82-020000	21.625	1.000	295.6	300.2
82-030000	23.882	1.000	295.6	298.3
82-040000	28.430	1.000	295.6	297.8
84-010000	573.893	0.995	304.9	309.6

Table CLDt2-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
86-010000	276.840	1.000	305.9	312.9
88-010000	202.853	1.000	324.1	323.7
88-020000	83.659	1.000	324.1	324.0
88-030000	182.966	0.996	324.1	324.1
90-010000	120.233	0.743	338.0	337.2
92-010000	505.835	0.539	339.5	337.4
94-010000	267.973	1.000	337.0	337.1
400-010000	82.382	0.998	352.4	352.7
408-010000	161.115	0.998	378.8	378.6
410-010000	395.598	1.000	378.8	378.5
410-020000	395.598	1.000	378.8	378.4
410-030000	395.598	1.000	378.8	378.4
410-040000	395.598	1.000	378.8	378.4
410-050000	395.598	1.000	378.8	378.4
410-060000	395.598	1.000	378.8	378.3
412-010000	161.115	1.000	378.8	378.4

Table CLDt2-4: CLPD LOCA Case 30: SG Metal Stored Energy (t= 30.5 seconds)

Table CLDt2-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.3	563.67
1552-001	sg sep	63.2	558.00
1601-001	sg sep	63.5	576.23
1621-001	sg sep	63.3	562.08
1641-001	sg sep	63.5	579.40
1641-002	sg sep	63.5	580.37
1801-001	1-lp sg sh	65.3	558.55
1801-002	1-lp sg sh	65.3	557.76
1801-003	1-lp sg sh	65.3	556.02
1802-001	1-lp sg sh	65.3	559.02
1803-001	1-lp sg sh	65.4	560.94
1803-002	1-lp sg sh	65.3	559.14
1803-003	1-lp sg sh	65.3	559.55
1803-004	1-lp sg sh	65.4	560.97
1803-005	1-lp sg sh	65.4	560.92
1804-001	1-lp sg sh	65.4	560.98
1806-001	1-lp sg sh	65.4	561.69
1807-001	1-lp sg sh	62.7	526.69
1807-002	1-lp sg sh	62.0	479.15
1808-001	1-lp sg sh	62.9	534.72
1808-002	1-lp sg sh	62.9	534.64
1808-003	1-lp sg sh	62.9	534.57
1808-004	1-lp sg sh	62.9	535.34
1808-005	1-lp sg sh	62.9	537.35
1808-006	1-lp sg sh	62.9	541.00
1808-007	1-lp sg sh	63.0	543.37
1808-008	1-lp sg sh	63.0	545.38
1808-009	1-lp sg sh	63.0	546.93
1808-010	1-lp sg sh	62.2	491.75
1808-011	1-lp sg sh	62.3	499.25
1808-012	1-lp sg sh	62.4	505.87
1808-013	1-lp sg sh	62.5	514.13

Table CLDt2-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	62.7	523.86
1808-015	1-lp sg sh	62.8	530.81
1808-016	1-lp sg sh	62.9	535.72
1808-017	1-lp sg sh	62.9	540.41
1808-018	1-lp sg sh	63.0	543.14
6241-001	DC sleeve	62.2	490.46
6241-002	DC sleeve	62.3	497.11
6241-003	DC sleeve	62.3	498.11
6241-004	DC sleeve	62.5	508.74
6301-001	hot DC	62.7	523.03
6301-002	hot DC	62.7	522.03
6301-003	hot DC	62.7	522.11
6301-004	hot DC	62.7	522.13
6301-005	hot DC	62.8	531.81
6301-006	hot DC	62.8	533.60
6301-007	hot DC	62.9	536.77
6301-008	hot DC	63.0	542.35
6301-009	hot DC	63.0	544.11
6301-010	hot DC	63.0	547.10
6301-011	hot DC	63.2	558.02
6311-001	cold DC	61.8	468.60
6311-002	cold DC	61.9	470.63
6311-003	cold DC	61.9	472.54
6311-004	cold DC	61.9	474.34
6311-005	cold DC	61.9	475.21
6311-006	cold DC	62.0	478.40
6311-007	cold DC	62.0	481.27
6311-008	cold DC	62.0	481.17
6311-009	cold DC	62.1	482.88
6311-010	cold DC	62.2	493.15
6311-011	cold DC	62.4	502.41

Table CLDt2-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1543-001	sg sep	63.3	565.08
1553-001	sg sep	63.2	561.27
1602-001	sg sep	63.5	577.77
1622-001	sg sep	63.3	562.34
1642-001	sg sep	63.5	581.15
1642-002	sg sep	63.5	582.56
1901-001	3-lp sg sh	65.3	558.88
1901-002	3-lp sg sh	65.3	558.57
1901-003	3-lp sg sh	65.3	557.91
1902-001	3-lp sg sh	65.3	559.04
1903-001	3-lp sg sh	65.4	561.11
1903-002	3-lp sg sh	65.3	559.15
1903-003	3-lp sg sh	65.3	559.51
1903-004	3-lp sg sh	65.4	561.16
1903-005	3-lp sg sh	65.4	561.10
1904-001	3-lp sg sh	65.4	561.18
1906-001	3-lp sg sh	65.5	564.52
1907-001	3-lp sg sh	62.9	537.92
1907-002	3-lp sg sh	62.0	478.88
1908-001	3-lp sg sh	63.0	541.23
1908-002	3-lp sg sh	63.0	542.42
1908-003	3-lp sg sh	63.1	550.06
1908-004	3-lp sg sh	63.1	553.15
1908-005	3-lp sg sh	63.2	554.90
1908-006	3-lp sg sh	63.2	555.81
1908-007	3-lp sg sh	63.1	554.58
1908-008	3-lp sg sh	63.2	556.01
1908-009	3-lp sg sh	63.2	556.02
1908-010	3-lp sg sh	62.2	491.67
1908-011	3-lp sg sh	62.3	499.45
1908-012	3-lp sg sh	62.4	506.49
1908-013	3-lp sg sh	62.6	515.64

Table CLDt2-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 30.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-014	3-lp sg sh	62.7	526.75
1908-015	3-lp sg sh	62.9	535.11
1908-016	3-lp sg sh	63.0	541.59
1908-017	3-lp sg sh	63.1	548.06
1908-018	3-lp sg sh	63.1	552.19
7241-001	3-lp DC sleeve	62.3	497.07
7241-002	3-lp DC sleeve	62.3	499.33
7241-003	3-lp DC sleeve	62.3	498.09
7241-004	3-lp DC sleeve	62.5	509.13
7301-001	3-lp DC	62.9	540.82
7301-002	3-lp DC	62.9	538.10
7301-003	3-lp DC	62.9	539.23
7301-004	3-lp DC	63.0	546.28
7301-005	3-lp DC	63.1	552.17
7301-006	3-lp DC	63.1	553.74
7301-007	3-lp DC	63.1	554.47
7301-008	3-lp DC	63.1	553.87
7301-009	3-lp DC	63.2	555.17
7301-010	3-lp DC	63.2	555.62
7301-011	3-lp DC	63.2	561.74
7311-001	3-lp DC cold	61.8	468.30
7311-002	3-lp DC cold	61.9	470.37
7311-003	3-lp DC cold	61.9	472.44
7311-004	3-lp DC cold	61.9	474.50
7311-005	3-lp DC cold	62.0	476.07
7311-006	3-lp DC cold	62.0	480.25
7311-007	3-lp DC cold	62.1	484.19
7311-008	3-lp DC cold	62.1	485.16
7311-009	3-lp DC cold	62.1	487.62
7311-010	3-lp DC cold	62.3	499.36
7311-011	3-lp DC cold	62.4	506.36

Table CLDt2-5: CLPD LOCA Case 30: SG Wall Film Conditions (t= 30.5 seconds)

Table CLDt2-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	562.69	564.15	0.08297	0.04633
1552-001	sg sep	640-010000	623-010000	SS-316	556.87	558.73	0.08321	0.04518
1601-001	sg sep	642-010000	645-010000	SS-316	577.32	579.22	0.25703	0.34977
1621-001	sg sep	660-010000	660-010000	SS-316	571.66	571.66	0.27233	0.27233
1641-001	sg sep	645-010000	642-010000	SS-316	580.49	579.18	0.40326	0.28881
1641-002	sg sep	650-010000	650-010000	SS-316	580.87	580.9	0.49514	0.49836
1801-001	1-lp sg sh	625-020000	0	SA-508	556.63	558.81	0.06814	0
1801-002	1-lp sg sh	625-030000	0	SA-508	552.31	558.58	0.08633	0
1801-003	1-lp sg sh	625-040000	0	SA-508	540.84	558.42	0.10289	0
1802-001	1-lp sg sh	625-010000	0	SA-508	559.22	558.97	0.04663	0
1803-001	1-lp sg sh	645-010000	0	SA-508	572.2	558.95	0.25732	0
1803-002	1-lp sg sh	623-010000	0	SA-508	559.42	559.09	0.03739	0
1803-003	1-lp sg sh	639-010000	0	SA-508	562.27	559.09	0.01557	0
1803-004	1-lp sg sh	650-010000	0	SA-508	573.39	558.69	0.2984	0
1803-005	1-lp sg sh	660-010000	0	SA-508	573.09	558.68	0.28264	0
1804-001	1-lp sg sh	670-010000	0	SA-508	573.82	558.63	0.32645	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	558.39	560.74	0.06684	0.08321
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	515.48	515.48	0.08927	0.08927
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	474.15	474.15	0.15574	0.15574
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	520.49	520.49	0.09014	0.09014
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	520.9	520.9	0.08846	0.08846
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	521.08	521.08	0.08695	0.08695
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	522.43	522.43	0.08533	0.08533
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	525.61	525.61	0.08309	0.08309
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	531.09	531.09	0.08098	0.08098
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	534.64	534.64	0.0809	0.0809
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	537.61	537.61	0.07933	0.07933
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	540.32	540.32	0.07644	0.07644
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	483.33	483.33	0.15583	0.15583
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	489.27	489.27	0.15592	0.15592
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	494.67	494.67	0.15599	0.15599

Table CLDt2-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	501.77	501.77	0.15607	0.15607
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	510.48	510.48	0.15614	0.15614
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	517.53	517.53	0.15616	0.15616
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	523.8	523.8	0.14531	0.14531
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	530.32	530.32	0.12578	0.12578
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	533.82	533.82	0.11222	0.11222
6241-001	DC sleeve	624-040000	625-040000	SS-316	466.94	501	0.46746	0.05244
6241-002	DC sleeve	624-030000	625-030000	SS-316	466.08	516.8	0.46706	0.05922
6241-003	DC sleeve	624-020000	625-020000	SS-316	463.53	523.17	0.46667	0.08202
6241-004	DC sleeve	624-010000	625-010000	SS-316	480.9	532.17	0.14555	0.11023
6301-001	hot DC	630-010000	625-040000	SS-316	512.49	520.15	0.08761	0.08085
6301-002	hot DC	630-020000	625-040000	SS-316	512.74	519.07	0.08572	0.07944
6301-003	hot DC	630-030000	625-040000	SS-316	514.01	518.74	0.08426	0.07899
6301-004	hot DC	630-040000	625-040000	SS-316	514.89	518.49	0.08294	0.07866
6301-005	hot DC	630-050000	625-030000	SS-316	520.06	535.81	0.08376	0.05701
6301-006	hot DC	630-060000	625-030000	SS-316	523.7	536.49	0.08168	0.05869
6301-007	hot DC	630-070000	625-030000	SS-316	529.09	538.02	0.07933	0.06221
6301-008	hot DC	632-010000	625-020000	SS-316	533.26	546.61	0.07977	0.05186
6301-009	hot DC	634-010000	625-020000	SS-316	536.23	547.48	0.07812	0.05186
6301-010	hot DC	636-010000	625-010000	SS-316	539.76	551.8	0.07589	0.0567
6301-011	hot DC	638-010000	625-010000	SS-316	554.5	559.29	0.06177	0.04706
6311-001	cold DC	631-010000	624-040000	SS-316	468.37	461.08	0.15574	0.46746
6311-002	cold DC	631-020000	624-040000	SS-316	471.82	461.55	0.15583	0.46746
6311-003	cold DC	631-030000	624-040000	SS-316	475.15	462	0.15592	0.46746
6311-004	cold DC	631-040000	624-040000	SS-316	478.28	462.43	0.15599	0.46746
6311-005	cold DC	631-050000	624-030000	SS-316	481.79	460.68	0.15607	0.46706
6311-006	cold DC	631-060000	624-030000	SS-316	487.21	461.44	0.15614	0.46706
6311-007	cold DC	631-070000	624-030000	SS-316	492.3	462.09	0.15616	0.46706
6311-008	cold DC	633-010000	624-020000	SS-316	495.32	459.51	0.14531	0.46667
6311-009	cold DC	635-010000	624-020000	SS-316	498.69	459.85	0.12578	0.46667
6311-010	cold DC	637-010000	624-010000	SS-316	504.95	474.35	0.11222	0.14555
6311-011	cold DC	638-010000	624-010000	SS-316	519.61	478.71	0.06906	0.14555

Table CLDt2-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	564.46	565.36	0.0997	0.04154
1553-001	sg sep	740-010000	723-010000	SS-316	560.67	561.61	0.09985	0.02301
1602-001	sg sep	742-010000	745-010000	SS-316	578.42	581.07	0.21281	0.33363
1622-001	sg sep	760-010000	760-010000	SS-316	572.69	572.69	0.26389	0.26389
1642-001	sg sep	745-010000	742-010000	SS-316	582.4	580.66	0.38061	0.23791
1642-002	sg sep	750-010000	750-010000	SS-316	583.04	583.07	0.49374	0.49684
1901-001	3-lp sg sh	725-020000	0	SA-508	559.12	558.8	0.06727	0
1901-002	3-lp sg sh	725-030000	0	SA-508	558.33	558.58	0.06705	0
1901-003	3-lp sg sh	725-040000	0	SA-508	554.57	558.42	0.07033	0
1902-001	3-lp sg sh	725-010000	0	SA-508	559.37	558.97	0.02643	0
1903-001	3-lp sg sh	745-010000	0	SA-508	573.44	558.95	0.24655	0
1903-002	3-lp sg sh	723-010000	0	SA-508	559.47	559.09	0.04503	0
1903-003	3-lp sg sh	739-010000	0	SA-508	561.97	559.08	0.04513	0
1903-004	3-lp sg sh	750-010000	0	SA-508	574.76	558.69	0.29038	0
1903-005	3-lp sg sh	760-010000	0	SA-508	574.42	558.68	0.27489	0
1904-001	3-lp sg sh	770-010000	0	SA-508	575.26	558.63	0.31792	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	563.24	563.45	0.05713	0.09985
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	531.12	531.12	0.08028	0.08028
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	473.66	473.66	0.15359	0.15359
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	530.87	530.87	0.08533	0.08533
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	533.06	533.06	0.08305	0.08305
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	544.8	544.8	0.07703	0.07703
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	549.34	549.34	0.07208	0.07208
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	551.86	551.86	0.06944	0.06944
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	553.01	553.01	0.06917	0.06917
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	550.85	550.85	0.07656	0.07656
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	553.02	553.02	0.08309	0.08309
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	553	553	0.09988	0.09988
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	483.02	483.02	0.15363	0.15363
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	489.28	489.28	0.15365	0.15365
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	495.2	495.2	0.15365	0.15365

Table CLDt2-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 30.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	503.49	503.49	0.15363	0.15363
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	514.15	514.15	0.15356	0.15356
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	523.3	523.3	0.15342	0.15342
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	532	532	0.13707	0.13707
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	541.35	541.35	0.10932	0.10932
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	546.95	546.95	0.09184	0.09184
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	467.8	517.99	0.46116	0.08393
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	466.41	525.71	0.46077	0.09658
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	464.11	526.55	0.46041	0.10086
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	481.13	533.76	0.14364	0.1146
7301-001	3-lp DC	730-010000	725-040000	SS-316	531.27	544.55	0.08041	0.06719
7301-002	3-lp DC	730-020000	725-040000	SS-316	527.23	542.82	0.08278	0.06719
7301-003	3-lp DC	730-030000	725-040000	SS-316	530.14	543	0.08081	0.06719
7301-004	3-lp DC	730-040000	725-040000	SS-316	542.05	546.61	0.07423	0.06719
7301-005	3-lp DC	730-050000	725-030000	SS-316	547.92	554.33	0.07031	0.06705
7301-006	3-lp DC	730-060000	725-030000	SS-316	550.45	555.24	0.06743	0.06705
7301-007	3-lp DC	730-070000	725-030000	SS-316	551.41	555.74	0.06682	0.06705
7301-008	3-lp DC	732-010000	725-020000	SS-316	548.53	556.66	0.07413	0.06727
7301-009	3-lp DC	734-010000	725-020000	SS-316	550.72	557.32	0.08309	0.06727
7301-010	3-lp DC	736-010000	725-010000	SS-316	550.78	558.02	0.09988	0.04032
7301-011	3-lp DC	738-010000	725-010000	SS-316	560.48	561.94	0.05181	0.04101
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	467.86	461.07	0.15359	0.46116
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	471.23	461.58	0.15363	0.46116
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	474.69	462.07	0.15365	0.46116
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	478.13	462.57	0.15365	0.46116
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	482.52	461.34	0.15363	0.46077
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	489.63	462.33	0.15356	0.46077
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	496.65	463.21	0.15342	0.46077
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	501.45	461.41	0.13707	0.46041
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	506.51	461.87	0.10932	0.46041
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	514.75	477.51	0.09184	0.14364
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	526.79	480.56	0.07607	0.14364

Table CLDt2-6: CLPD LOCA Case 30: SG Fluid Conditions (t= 30.5 seconds)

Table CLDt2-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	558.67	582.35
623-010000	366.645	0.000	560.55	582.35
624-010000	155.893	0.000	449.56	582.57
624-020000	43.006	0.000	451.22	582.86
624-030000	59.135	0.000	454.18	583.23
624-040000	43.006	0.000	456.55	583.61
625-010000	180.020	0.000	556.4	582.55
625-020000	73.345	0.000	543.71	582.83
625-030000	100.851	0.000	526.76	583.18
625-040000	73.345	0.000	495.13	583.54
630-010000	70.116	0.000	474.16	583.65
630-020000	70.116	0.000	478.03	583.57
630-030000	70.116	0.000	482.01	583.49
630-040000	70.116	0.000	485.14	583.41
630-050000	105.180	0.000	489.56	583.31
630-060000	140.232	0.000	496.75	583.17
630-070000	140.232	0.000	505.65	583.01
631-010000	70.116	0.000	460.55	583.67
631-020000	70.116	0.000	465.02	583.59
631-030000	70.116	0.000	469.59	583.5
631-040000	70.116	0.000	473.95	583.42
631-050000	105.180	0.000	479.75	583.32
631-060000	140.232	0.000	486.98	583.18
631-070000	140.232	0.000	494.07	583.02
632-010000	140.232	0.000	509.5	582.85
633-010000	140.232	0.000	500.59	582.86
634-010000	140.232	0.000	514.61	582.7
635-010000	140.232	0.000	507.2	582.7
636-010000	86.672	0.000	520.79	582.57
637-010000	86.672	0.000	510.52	582.57
638-010000	609.522	0.000	539.95	582.42
639-010000	635.282	0.007	562.15	582.23

Table CLDt2-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.000	547.65	582.26
641-010000	117.514	0.0002	553.7	582.14
642-010000	320.019	0.745	556.72	593.05
645-010000	1075.296	0.999	563.54	593.81
650-010000	830.204	1.000	582.01	592.44
660-010000	703.676	1.000	582	591.93
670-010000	400.000	1.000	581.99	591.32
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	3.2E-09	557.93	584.48
723-010000	1099.935	3.1E-09	561.28	584.48
724-010000	467.679	0.000	451.25	584.7
724-020000	129.019	0.000	452.78	584.99
724-030000	177.404	0.000	455	585.37
724-040000	129.019	0.000	456.85	585.75
725-010000	540.019	3.2E-10	559.94	584.68
725-020000	220.035	0.000	558.15	584.96
725-030000	302.553	0.000	554.73	585.31
725-040000	220.035	0.000	540.26	585.65
730-010000	210.349	0.000	506.52	585.76
730-020000	210.349	0.000	498.96	585.68
730-030000	210.349	0.000	504.8	585.6
730-040000	210.349	0.000	524.8	585.53
730-050000	315.541	0.000	534.4	585.43
730-060000	420.697	0.000	539.18	585.3
730-070000	420.697	0.000	540.59	585.16
731-010000	210.349	0.000	459.93	585.81
731-020000	210.349	0.000	463.91	585.73
731-030000	210.349	0.000	468.32	585.65
731-040000	210.349	0.000	472.8	585.57
731-050000	315.541	0.000	479.41	585.47
731-060000	420.697	0.000	488.66	585.33

Table CLDt2-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 30.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
731-070000	420.697	0.000	498.35	585.17
732-010000	420.697	0.000	531.69	585.01
733-010000	420.697	0.000	507.86	585.02
734-010000	420.697	0.000	537.03	584.86
735-010000	420.697	0.000	518.85	584.86
736-010000	260.017	0.000	538.59	584.74
737-010000	260.017	0.000	525.58	584.74
738-010000	1828.567	0.000	552.4	584.6
739-010000	1905.846	9.3E-10	563.84	584.37
740-010000	375.926	0.000	556.45	584.44
741-010000	352.543	0.000	559.88	584.32
742-010000	960.056	6.1E-01	562.55	596.08
745-010000	3225.888	9.7E-01	564.09	598.99
750-010000	2490.612	1.000	584.17	596.3
760-010000	2111.028	1.000	584.16	595.05
770-010000	1200.000	1.000	584.15	594.09

Table CLDt3-1: CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

Table CLDt3-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	63.6	589.05
1001-002	3-lp HL	63.6	585.85
1001-003	3-lp HL	63.8	597.39
1001-004	3-lp HL	63.6	586.48
1081-001	1-lp sg ch	64.0	618.04
1081-002	1-lp sg ch	63.3	562.69
1082-001	3-lp sg ch	64.0	612.62
1082-002	3-lp sg ch	63.3	563.5
1091-001	1-lp sg ch	61.4	429.7
1091-002	1-lp sg ch	62.9	513.88
1092-001	3-lp sg ch	63.3	535.28
1092-002	3-lp sg ch	63.2	530.96
1251-001	3-lp SG tube	62.6	495.23
1251-002	3-lp SG tube	62.5	494.45
1251-003	3-lp SG tube	62.7	502.83
1251-004	3-lp SG tube	62.9	514.27
1251-005	3-lp SG tube	63.0	521.44
1251-006	3-lp SG tube	63.1	524.53
1251-007	3-lp SG tube	63.0	519.59
1251-008	3-lp SG tube	62.7	500.9
1251-009	3-lp SG tube	62.8	510.5
1251-010	3-lp SG tube	62.9	514.55
1251-011	3-lp SG tube	62.6	497.57
1251-012	3-lp SG tube	62.4	488.26
1251-013	3-lp SG tube	62.2	476.72
1251-014	3-lp SG tube	62.1	469.02
1251-015	3-lp SG tube	62.0	462.38
1251-016	3-lp SG tube	61.9	457.14
1251-017	3-lp SG tube	61.8	454.42
1251-018	3-lp SG tube	61.8	453.16
1251-019	3-lp SG tube	61.8	452.2
1251-020	3-lp SG tube	61.8	451.44

Table CLDt3-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	63.2	555.34
1401-002	3-lp CL	63.2	555.27
1401-003	3-lp CL	63.2	555.06
1401-004	3-lp CL	63.2	554.95
1401-005	3-lp CL	63.1	554.75
1401-006	3-lp CL	63.2	555.4
1701-001	3-lp CLd	63.1	554.59
1701-002	3-lp CLd	63.1	554.64
1701-003	3-lp CLd	63.1	548.32
1701-004	3-lp CLd	63.1	553.46
1905-001	3-lp sg sh	63.6	552.67
1805-001	1-lp sg sh	63.8	562.99
2001-001	1-lp HL	63.9	606.09
2001-002	1-lp HL	63.9	608.87
2001-003	1-lp HL	63.9	609.87
2001-004	1-lp HL	63.9	610.34
2251-001	sngl tube	61.9	459.24
2251-002	sngl tube	62.0	464.28
2251-003	sngl tube	62.1	469.33
2251-004	sngl tube	62.2	473.93
2251-005	sngl tube	62.3	478.99
2251-006	sngl tube	62.4	485.72
2251-007	sngl tube	62.5	491.35
2251-008	sngl tube	62.4	487.78
2251-009	sngl tube	62.5	494.59
2251-010	sngl tube	62.6	497.42
2251-011	sngl tube	62.4	486.8
2251-012	sngl tube	62.3	481.88
2251-013	sngl tube	62.2	474.2
2251-014	sngl tube	62.1	467.72
2251-015	sngl tube	62.0	461.27
2251-016	sngl tube	61.8	455.53

Table CLDt3-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	61.8	452.16
2251-018	sngl tube	61.8	450.54
2251-019	sngl tube	61.7	449.39
2251-020	sngl tube	61.7	448.66
2401-001	1-lp CL suc	63.2	555.71
2401-002	1-lp CL suc	63.2	555.61
2401-003	1-lp CL suc	63.2	555.51
2401-004	1-lp CL suc	63.2	555.43
2401-005	1-lp CL suc	63.2	555.25
2401-006	1-lp CL suc	63.2	554.91
2701-001	1-lp CL dis	63.1	554.65
2701-002	1-lp CL dis	62.8	533.62
2701-003	1-lp CL dis	62.9	538.49
2701-004	1-lp CL dis	63.0	543.27
101-001	RPV head	63.6	564.13
101-002	RPV head	65.2	551.78
102-001	RPV head flange	63.5	560.5
103-001	RPV nozzle	63.5	560.75
103-002	RPV nozzle	63.4	556.25
104-001	RPV int shell	63.4	551.54
104-002	RPV int shell	63.3	548.38
104-003	RPV int shell	63.3	548.37
105-001	RPV lower shell	63.3	547.05
105-002	RPV lower shell	63.3	547.21
106-001	RPV lower hd	63.2	537.72
106-002	RPV lower hd	64.9	540.61
201-001	core barrel	63.2	561.03
201-002	core barrel	62.9	535.29
201-003	core barrel	62.3	500.57
201-004	core barrel	62.1	482.93
201-005	core barrel	62.0	478.31
201-006	core barrel	61.9	472.96

Table CLDt3-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	61.7	457.01
203-001	fl dis dvce	58.2	255.48
204-001	HR	62.2	489.06
204-002	HR	62.2	490.75
204-003	HR	62.2	493.74
204-004	HR	62.3	497.09
204-005	HR	62.3	498.64
204-006	HR	62.3	500.38
204-007	HR	62.4	506.19
204-008	HR	62.5	508.48
204-009	HR	62.5	510.24
204-010	HR	62.5	512.9
204-011	HR	62.6	515
204-012	HR	62.6	519.64
204-013	HR	62.7	522.3
204-014	HR	62.8	527.97
204-015	HR	62.8	533.86
204-016	HR	62.9	534.84
204-017	HR	62.9	536.72
204-018	HR	62.9	538.46
204-019	HR	62.9	538.96
204-020	HR	63.2	557.3
204-021	HR	63.2	558.63
204-022	HR	63.2	559.53
204-023	HR	63.2	560.29
204-024	HR	63.2	560.7
204-025	HR	63.2	560.36
204-026	HR	63.2	560.5
204-027	HR	63.2	560.67
204-028	HR	63.2	559.98
205-001	UPR core plt	62.8	532.71
206-001	LMP	62.6	514.9
206-002	LMP	63.9	607.46

Table CLDt3-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	63.2	561.4
208-001	CRGA	62.2	488.58
208-002	CRGA	63.8	601.8
208-003	CRGA	59.5	327.49
4001-001	pzr srg	66.0	586.05
4101-001	pzr srg	67.5	643.51
4101-002	pzr srg	67.6	649.43
4101-003	pzr srg	67.7	651.61
4101-004	pzr srg	67.7	653.75
4101-005	pzr srg	67.8	654.45
4101-006	pzr srg	67.8	654.43
4201-001	prz hd	67.3	638.47
4301-001	prz upr hd	67.8	655.56
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	40.7	197.92
301-002	FUEL ASS	41.4	239.56
301-003	FUEL ASS	41.7	259.76
301-004	FUEL ASS	42.0	282.97
301-005	FUEL ASS	42.3	301.98
301-006	FUEL ASS	42.5	319.21
301-007	FUEL ASS	42.7	334.75
301-008	FUEL ASS	42.9	348
301-009	FUEL ASS	43.1	358.47
301-010	FUEL ASS	43.2	368.15
301-011	FUEL ASS	43.3	378.63
301-012	FUEL ASS	43.5	392.53
301-013	FUEL ASS	43.8	417.47
301-014	FUEL ASS	44.1	444.39
301-015	FUEL ASS	44.5	482.5

Table CLDt3-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-016	FUEL ASS	44.7	500.17
301-017	FUEL ASS	43.8	417.36
301-018	FUEL ASS	43.8	416.56
301-019	FUEL ASS	43.6	404.89
301-020	FUEL ASS	43.5	396.55
301-021	FUEL ASS	43.5	391.05
301-022	FUEL ASS	43.4	382.71
301-023	FUEL ASS	43.2	373.53
301-024	FUEL ASS	43.1	365.89
301-025	FUEL ASS	43.0	356.18
301-026	FUEL ASS	43.0	351.22
301-027	FUEL ASS	42.9	347.56
301-028	FUEL ASS	42.5	319.56
301-001	**Fuel Cladding**	**29.1**	**197.92**
301-002	**Fuel Cladding**	**29.3**	**239.56**
301-003	**Fuel Cladding**	**29.4**	**259.76**
301-004	**Fuel Cladding**	**29.5**	**282.97**
301-005	**Fuel Cladding**	**29.6**	**301.98**
301-006	**Fuel Cladding**	**29.7**	**319.21**
301-007	**Fuel Cladding**	**29.8**	**334.75**
301-008	**Fuel Cladding**	**29.8**	**348**
301-009	**Fuel Cladding**	**29.9**	**358.47**
301-010	**Fuel Cladding**	**29.9**	**368.15**
301-011	**Fuel Cladding**	**30.0**	**378.63**
301-012	**Fuel Cladding**	**30.1**	**392.53**
301-013	**Fuel Cladding**	**30.2**	**417.47**
301-014	**Fuel Cladding**	**30.3**	**444.39**
301-015	**Fuel Cladding**	**30.5**	**482.5**
301-016	**Fuel Cladding**	**30.6**	**500.17**
301-017	**Fuel Cladding**	**30.2**	**417.36**
301-018	**Fuel Cladding**	**30.2**	**416.56**
301-019	**Fuel Cladding**	**30.1**	**404.89**
301-020	**Fuel Cladding**	**30.1**	**396.55**

Table CLDt3-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-021	**Fuel Cladding**	**30.0**	**391.05**
301-022	**Fuel Cladding**	**30.0**	**382.71**
301-023	**Fuel Cladding**	**30.0**	**373.53**
301-024	**Fuel Cladding**	**29.9**	**365.89**
301-025	**Fuel Cladding**	**29.9**	**356.18**
301-026	**Fuel Cladding**	**29.9**	**351.22**
301-027	**Fuel Cladding**	**29.8**	**347.56**
301-028	**Fuel Cladding**	**29.7**	**319.56**

Table CLDt3-2: CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

Table CLDt3-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	469.75	625	0.00720	0
1001-002	3-lp HL	105-010000	0	SS-316	454.87	624.97	0.00720	0
1001-003	3-lp HL	110-010000	0	SS-316	505.47	625.14	0.00705	0
1001-004	3-lp HL	115-010000	0	SS-316	456.91	624.99	0.00653	0
1081-001	1-lp sg ch	220-010000	0	SS-316	584.46	625.76	0.00257	0
1081-002	1-lp sg ch	230-010000	0	SS-316	552.41	564.86	0.00207	0
1082-001	3-lp sg ch	120-010000	0	SS-316	557.58	625.76	0.00127	0
1082-002	3-lp sg ch	130-010000	0	SS-316	557.42	564.85	0.00104	0
1091-001	1-lp sg ch	221-010000	0	alloy690	427.82	430.15	0.01175	0
1091-002	1-lp sg ch	229-010000	0	alloy690	511.91	514.39	0.01323	0
1092-001	3-lp sg ch	121-010000	0	alloy690	533.12	535.85	0.00519	0
1092-002	3-lp sg ch	129-010000	0	alloy690	530.21	531.21	0.00647	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	494.83	495.61	0.00539	0.08739
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	494.03	494.88	0.00546	0.08761
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	502.41	503.28	0.00549	0.08763
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	513.88	514.67	0.00551	0.08764
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	521.11	521.76	0.00555	0.08780
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	524.26	524.78	0.00564	0.08816
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	519.4	519.73	0.00577	0.08880
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	500.77	500.99	0.00592	0.06053
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	510.35	510.62	0.00623	0.06361
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	514.43	514.66	0.00622	0.06346
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	497.54	497.57	0.00625	0.08568
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	488.29	488.21	0.00623	0.11516
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	476.78	476.64	0.00624	0.15782
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	469.08	468.94	0.00626	0.18167
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	462.44	462.31	0.00629	0.18159
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	457.19	457.08	0.00633	0.18152
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	454.46	454.38	0.00636	0.18148
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	453.2	453.13	0.00639	0.18146
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	452.23	452.17	0.00643	0.18145

Table CLDt3-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	451.47	451.42	0.00647	0.18145
1401-001	3-lp CL	135-010000	0	SS-316	523.56	564.61	0.00736	0
1401-002	3-lp CL	140-010000	0	SS-316	523.24	564.61	0.00740	0
1401-003	3-lp CL	145-010000	0	SS-316	522.32	564.61	0.00744	0
1401-004	3-lp CL	150-010000	0	SS-316	521.93	564.6	0.00748	0
1401-005	3-lp CL	155-010000	0	SS-316	521.07	564.59	0.00750	0
1401-006	3-lp CL	160-010000	0	SS-316	522.86	564.98	0.00670	0
1701-001	3-lp CLd	165-010000	0	SS-316	518.22	565.27	0.00759	0
1701-002	3-lp CLd	170-010000	0	SS-316	518.37	565.27	0.00762	0
1701-003	3-lp CLd	175-010000	0	SS-316	484.04	565.25	0.00925	0
1701-004	3-lp CLd	180-010000	0	SS-316	511.77	565.26	0.00813	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	487.93	561.81	0.00127	0.00104
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	536.53	552.17	0.00255	0.00207
2001-001	1-lp HL	200-010000	0	SS-316	537.06	625.41	0.01853	0
2001-002	1-lp HL	205-010000	0	SS-316	548.27	625.46	0.03008	0
2001-003	1-lp HL	210-010000	0	SS-316	553.37	625.47	0.01376	0
2001-004	1-lp HL	215-010000	0	SS-316	555.52	625.47	0.01366	0
2251-001	sngl tube	225-010000	630-010000	alloy690	458.54	459.88	0.01162	0.09891
2251-002	sngl tube	225-020000	630-020000	alloy690	463.65	464.87	0.01173	0.09920
2251-003	sngl tube	225-030000	630-030000	alloy690	468.73	469.89	0.01182	0.09950
2251-004	sngl tube	225-040000	630-040000	alloy690	473.34	474.47	0.01189	0.09981
2251-005	sngl tube	225-050000	630-050000	alloy690	478.43	479.52	0.01197	0.10018
2251-006	sngl tube	225-060000	630-060000	alloy690	485.18	486.22	0.01208	0.10068
2251-007	sngl tube	225-070000	630-070000	alloy690	490.85	491.79	0.01223	0.10123
2251-008	sngl tube	225-080000	632-010000	alloy690	487.37	488.13	0.01242	0.07819
2251-009	sngl tube	225-090000	634-010000	alloy690	494.17	494.95	0.01252	0.07842
2251-010	sngl tube	225-100000	636-010000	alloy690	497.01	497.76	0.01265	0.07799
2251-011	sngl tube	225-110000	637-010000	alloy690	486.49	487.05	0.01284	0.09607
2251-012	sngl tube	225-120000	635-010000	alloy690	481.6	482.11	0.01296	0.12124
2251-013	sngl tube	225-130000	633-010000	alloy690	473.95	474.39	0.01309	0.15727
2251-014	sngl tube	225-140000	631-070000	alloy690	467.49	467.89	0.01320	0.17762

Table CLDt3-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	461.06	461.44	0.01331	0.17774
2251-016	sngl tube	225-160000	631-050000	alloy690	455.32	455.69	0.01340	0.17782
2251-017	sngl tube	225-170000	631-040000	alloy690	451.95	452.33	0.01346	0.17788
2251-018	sngl tube	225-180000	631-030000	alloy690	450.32	450.72	0.01350	0.17794
2251-019	sngl tube	225-190000	631-020000	alloy690	449.16	449.58	0.01354	0.17801
2251-020	sngl tube	225-200000	631-010000	alloy690	448.43	448.86	0.01358	0.17809
2401-001	1-lp CL suc	235-010000	0	SS-316	523.94	564.65	0.01366	0
2401-002	1-lp CL suc	240-010000	0	SS-316	523.55	564.64	0.01360	0
2401-003	1-lp CL suc	245-010000	0	SS-316	523.1	564.65	0.01360	0
2401-004	1-lp CL suc	250-010000	0	SS-316	522.84	564.64	0.01359	0
2401-005	1-lp CL suc	255-010000	0	SS-316	522.14	564.63	0.01368	0
2401-006	1-lp CL suc	260-010000	0	SS-316	520.52	564.97	0.01354	0
2701-001	1-lp CL dis	265-010000	0	SS-316	517.04	565.52	0.01401	0
2701-002	1-lp CL dis	270-010000	0	SS-316	407.23	565.43	0.01499	0
2701-003	1-lp CL dis	275-010000	0	SS-316	447.03	565.24	0.00950	0
2701-004	1-lp CL dis	280-010000	0	SS-316	463.45	565.4	0.00877	0
101-001	RPV head	94-010000	0	alloy600	555.95	565.61	0.00081	0
101-002	RPV head	90-010000	0	SA-508	328.92	565.32	0.89103	0
102-001	RPV head flange	90-010000	0	alloy600	328.76	565.32	0.88412	0
103-001	RPV nozzle	10-010000	0	alloy600	455.8	565.56	0.00455	0
103-002	RPV nozzle	12-010000	0	alloy600	319.62	565.54	0.46523	0
104-001	RPV int shell	12-010000	0	alloy600	319.87	565.54	0.46980	0
104-002	RPV int shell	14-010000	0	alloy600	311.69	565.57	0.42227	0
104-003	RPV int shell	16-010000	0	alloy600	315.47	565.58	0.44242	0
105-001	RPV lower shell	16-010000	0	alloy600	314.86	565.58	0.41588	0
105-002	RPV lower shell	18-010000	0	alloy600	318.16	565.59	0.39642	0
106-001	RPV lower hd	18-010000	0	alloy600	317.44	565.52	0.36545	0
106-002	RPV lower hd	20-010000	0	SA-508	330.08	565.56	0.73974	0
201-001	core barrel	10-010000	86-010000	SS-316	342.91	598.54	0.37490	0.00084
201-002	core barrel	12-010000	84-010000	SS-316	312.91	559.69	0.34505	0.00276
201-003	core barrel	14-010000	80-040000	SS-316	289.71	496.71	0.16907	0.00430

Table CLDt3-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	289.63	342.38	0.16907	0.00380
201-005	core barrel	16-010000	80-020000	SS-316	281.86	344.13	0.12647	0.00767
201-006	core barrel	16-010000	80-010000	SS-316	281.87	311.02	0.12647	0.10851
202-001	low sup plate	22-010000	0	SS-316	304.2	520.31	0.15103	0
203-001	fl dis dvce	22-010000	0	SS-316	232.25	269.23	0.15103	0
204-001	HR	24-010000	80-010000	SS-316	252.5	311.15	0.33993	0.10851
204-002	HR	26-010000	80-010000	SS-316	261.65	311.17	0.34851	0.10851
204-003	HR	28-010000	80-010000	SS-316	274.03	311.2	0.36071	0.10851
204-004	HR	30-010000	80-010000	SS-316	285.6	311.25	0.37089	0.10851
204-005	HR	32-010000	80-010000	SS-316	293.32	311.29	0.38154	0.10851
204-006	HR	34-010000	80-010000	SS-316	300.34	311.34	0.39269	0.10851
204-007	HR	36-010000	80-020000	SS-316	306.08	344.94	0.40379	0.00744
204-008	HR	38-010000	80-020000	SS-316	310.54	345.1	0.43252	0.00740
204-009	HR	40-010000	80-020000	SS-316	313.66	345.25	0.70189	0.00736
204-010	HR	42-010000	80-020000	SS-316	316.41	345.39	0.86505	0.00732
204-011	HR	44-010000	80-020000	SS-316	318.62	345.54	1.00610	0.00728
204-012	HR	46-010000	80-020000	SS-316	322.72	345.7	1.23480	0.00724
204-013	HR	48-010000	80-020000	SS-316	326.44	345.84	1.37170	0.00720
204-014	HR	50-010000	80-030000	SS-316	342.52	347.77	2.25590	0.00378
204-015	HR	52-010000	80-030000	SS-316	465.3	348.91	0.00314	0.00378
204-016	HR	54-010000	80-030000	SS-316	470.6	350.39	0.00475	0.00378
204-017	HR	56-010000	80-030000	SS-316	475.87	352.33	0.00658	0.00377
204-018	HR	58-010000	80-030000	SS-316	482.54	352.8	0.00715	0.00377
204-019	HR	60-010000	80-030000	SS-316	479.83	353.13	0.00770	0.00377
204-020	HR	62-010000	80-040000	SS-316	502.83	511.85	0.00809	0.00427
204-021	HR	64-010000	80-040000	SS-316	510.13	512.17	0.00894	0.00427
204-022	HR	66-010000	80-040000	SS-316	514.61	512.46	0.00886	0.00427
204-023	HR	68-010000	80-040000	SS-316	519.03	512.69	0.00877	0.00427
204-024	HR	70-010000	80-040000	SS-316	519.51	512.87	0.00873	0.00427
204-025	HR	72-010000	80-040000	SS-316	517.37	512.96	0.00873	0.00427
204-026	HR	74-010000	80-040000	SS-316	518.03	513.03	0.00868	0.00427
204-027	HR	76-010000	80-040000	SS-316	518.28	513.08	0.00867	0.00427

Table CLDt3-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	516.7	512.8	0.00806	0.00427
205-001	UPR core plt	84-010000	0	SS-316	520.78	543.6	0.00273	0
206-001	LMP	84-010000	0	SS-316	513.19	515.78	0.00273	0
206-002	LMP	86-010000	0	SS-316	606.63	607.9	0.00085	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	613.89	442.32	0.00085	0.08908
208-001	CRGA	84-010000	0	SS-316	487.37	489.28	0.00271	0
208-002	CRGA	86-010000	0	SS-316	601.15	602.18	0.00085	0
208-003	CRGA	92-010000	0	SS-316	320.56	331.56	0.15376	0
4001-001	pzr srg	400-010000	0	SA-508	556.22	606.03	0.00498	0
4101-001	pzr srg	410-010000	0	SA-508	627.3	646.64	0.00085	0
4101-002	pzr srg	410-020000	0	SA-508	636.53	651.9	0.00087	0
4101-003	pzr srg	410-030000	0	SA-508	641.46	653.51	0.00087	0
4101-004	pzr srg	410-040000	0	SA-508	646.45	655.06	0.00088	0
4101-005	pzr srg	410-050000	0	SA-508	650.46	655.04	0.00088	0
4101-006	pzr srg	410-060000	0	SA-508	650.44	655.02	0.00087	0
4201-001	prz hd	408-010000	0	SA-508	615.8	643.25	0.00076	0
4301-001	prz upr hd	412-010000	0	SA-508	651.44	656.21	0.00086	0
					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLDt3-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	Fuel Cladding	0	24-010000	cladding		**183**		**0.33993**
301-002	Fuel Cladding	0	26-010000	cladding		**195.24**		**0.34851**
301-003	Fuel Cladding	0	28-010000	cladding		**210.58**		**0.36071**
301-004	Fuel Cladding	0	30-010000	cladding		**224.54**		**0.37089**
301-005	Fuel Cladding	0	32-010000	cladding		**238.62**		**0.38154**
301-006	Fuel Cladding	0	34-010000	cladding		**252.99**		**0.39269**
301-007	Fuel Cladding	0	36-010000	cladding		**267.08**		**0.40379**
301-008	Fuel Cladding	0	38-010000	cladding		**280.33**		**0.41380**
301-009	Fuel Cladding	0	40-010000	cladding		**291.93**		**0.42266**
301-010	Fuel Cladding	0	42-010000	cladding		**301.66**		**0.43003**
301-011	Fuel Cladding	0	44-010000	cladding		**309.3**		**0.43604**
301-012	Fuel Cladding	0	46-010000	cladding		**315.13**		**0.44007**
301-013	Fuel Cladding	0	48-010000	cladding		**321.82**		**0.42337**
301-014	Fuel Cladding	0	50-010000	cladding		**328.17**		**0.37866**
301-015	Fuel Cladding	0	52-010000	cladding		**337.6**		**0.36215**

Table CLDt3-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	Fuel Cladding	0	54-010000	cladding		**378.16**		**0.68162**
301-017	Fuel Cladding	0	56-010000	cladding		**383.46**		**0.12120**
301-018	Fuel Cladding	0	58-010000	cladding		**387.65**		**0.12298**
301-019	Fuel Cladding	0	60-010000	cladding		**381.09**		**0.12062**
301-020	Fuel Cladding	0	62-010000	cladding		**379.62**		**0.11649**
301-021	Fuel Cladding	0	64-010000	cladding		**372.65**		**0.00000**
301-022	Fuel Cladding	0	66-010000	cladding		**364.98**		**0.00000**
301-023	Fuel Cladding	0	68-010000	cladding		**354.43**		**0.00000**
301-024	Fuel Cladding	0	70-010000	cladding		**347.93**		**0.00000**
301-025	Fuel Cladding	0	72-010000	cladding		**339.77**		**0.00000**
301-026	Fuel Cladding	0	74-010000	cladding		**334.4**		**0.00000**
301-027	Fuel Cladding	0	76-010000	cladding		**331.91**		**0.00000**
301-028	Fuel Cladding	0	78-010000	cladding		**317.43**		**0.00347**

Table CLDt3-3: CLPD LOCA Case 30: RCS Fluid Conditions (t= 50.5 seconds)

Table CLDt3-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.994	303.3	324.4
105-010000	112.108	0.990	302.4	324.3
110-010000	90.692	0.998	302.4	327.8
115-010000	99.530	0.999	304.9	322.1
117-010000	34.487	0.999	305.3	320.7
120-010000	605.616	0.991	304.7	310.7
121-010000	90.006	0.995	304.9	351.7
125-010000	104.546	0.997	305	371
125-020000	104.546	0.997	305	383.2
125-030000	104.546	0.998	305	395
125-040000	104.546	0.999	305	408
125-050000	156.828	0.999	305	424
125-060000	209.092	1.000	305	437.9
125-070000	209.092	1.000	304.9	445.8
125-080000	209.092	1.000	304.8	446.8
125-090000	209.092	1.000	304.7	459
125-100000	182.764	1.000	304.6	472.3
125-110000	182.764	1.000	304.5	476.2
125-120000	209.092	1.000	304.4	487.1
125-130000	209.092	1.000	304.3	484.9
125-140000	209.092	1.000	304.2	479
125-150000	209.092	1.000	304.1	472.5
125-160000	156.828	1.000	304	467.3
125-170000	104.546	1.000	304	464.1
125-180000	104.546	1.000	303.9	461.7
125-190000	104.546	1.000	303.9	459.7
125-200000	104.546	1.000	303.8	458.2
129-010000	90.006	1.000	303.8	483.4
130-010000	605.616	1.000	303.8	485.5
132-010000	34.487	1.000	303.6	484.9
135-010000	51.857	1.000	303.5	484.8
140-010000	61.586	1.000	303.4	484.7

Table CLDt3-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	303.3	484.8
150-010000	102.591	1.000	303.1	484.7
155-010000	108.946	1.000	302.9	484.7
160-010000	413.100	1.000	302.3	502.8
165-010000	105.120	1.000	301.9	500.2
170-010000	105.120	1.000	301.8	499
175-010000	135.835	0.982	144.6	496.6
180-010000	116.691	0.995	150.3	495.9
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
200-010000	37.369	0.995	303.9	323.4
205-010000	37.369	0.991	302.9	324.3
210-010000	30.231	0.997	302.8	325
215-010000	33.177	0.997	303.9	316.8
217-010000	11.496	0.998	303.7	315.6
220-010000	201.872	0.995	303.8	311.1
221-010000	30.002	0.996	303.7	335.6
225-010000	34.849	0.997	303.6	361.8
225-020000	34.849	0.997	303.4	378
225-030000	34.849	0.997	303.3	388.6
225-040000	34.849	0.997	303.2	396.1
225-050000	52.276	0.997	303	404.3
225-060000	69.697	0.998	302.8	413.7
225-070000	69.697	0.998	302.5	422.6
225-080000	69.697	0.999	302.3	428
225-090000	69.697	0.999	302	435.6
225-100000	60.921	0.999	301.8	441.7
225-110000	60.921	0.999	301.6	442
225-120000	69.697	1.000	301.3	441.3
225-130000	69.697	1.000	301.1	438.4
225-140000	69.697	1.000	300.8	435
225-150000	69.697	1.000	300.6	431.3

Table CLDt3-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-160000	52.276	1.000	300.4	428
225-170000	34.849	1.000	300.2	425.8
225-180000	34.849	1.000	300.1	424.2
225-190000	34.849	1.000	300	423
225-200000	34.849	1.000	299.8	422.3
229-010000	30.002	1.000	299.7	437.6
230-010000	201.872	1.000	299.7	387.2
232-010000	11.496	1.000	298.9	377.9
235-010000	17.286	1.000	298.8	375.5
240-010000	20.529	1.000	298.7	372.7
245-010000	38.892	1.000	298.7	368.2
250-010000	34.197	1.000	298.7	369
255-010000	36.315	1.000	298.5	364.9
260-010000	137.700	1.000	295.8	359.4
265-010000	35.040	1.000	293.3	352.3
270-010000	35.040	1.000	293.1	352.6
275-010000	45.278	0.579	267.4	302
280-010000	38.897	0.750	272.2	313
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
10-010000	134.385	0.980	298.2	338.3
12-010000	184.160	0.654	257.6	344.1
14-010000	366.488	0.000	203.9	313.8
16-010000	414.895	0.000	178.3	307.3
18-010000	120.792	0.000	167.8	308.5
20-010000	212.629	0.000	150.9	309.3
22-010000	315.096	0.000	172	308.1
24-010000	45.438	0.000	176.7	307.5
26-010000	48.504	0.000	184.6	307.3
28-010000	48.504	0.000	196.1	307.2
30-010000	35.789	0.000	206.7	307.1
32-010000	35.789	0.000	219.1	307

Table CLDt3-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
34-010000	35.789	0.000	232.5	307
36-010000	35.789	0.000	246.5	307
38-010000	35.789	0.000	260.3	306.9
40-010000	35.789	0.000	273.1	306.9
42-010000	35.789	0.000	284.2	306.8
44-010000	35.789	0.000	293.1	306.8
46-010000	35.789	0.004	299.2	306.7
48-010000	35.789	0.101	302.7	306.5
50-010000	35.789	0.306	304.4	307.2
52-010000	35.789	0.970	306	310.9
54-010000	33.109	0.979	306.2	323.5
56-010000	33.109	0.994	306.1	345.4
58-010000	33.109	0.998	306.2	356.2
60-010000	33.109	0.999	306.2	364.2
62-010000	33.109	1.000	306.2	370.8
64-010000	33.109	1.000	306	378.7
66-010000	33.109	1.000	305.6	385
68-010000	33.109	1.000	305.3	388.8
70-010000	33.109	1.000	305.1	390.9
72-010000	21.064	1.000	305	391.8
74-010000	21.064	1.000	305	392.6
76-010000	21.051	1.000	305.1	393.7
78-010000	86.638	0.999	307.1	374.3
80-010000	5.964	0.000	275.9	308.1
80-020000	4.483	0.985	305.1	308.8
80-030000	4.951	0.996	305.4	321.1
80-040000	5.894	0.998	305.7	369.5
82-010000	28.768	0.000	232	305.9
82-020000	21.625	0.000	276	306
82-030000	23.882	0.928	293.3	313.6
82-040000	28.430	1.000	306	322.7
84-010000	573.893	0.994	305.5	329.8
86-010000	276.840	0.997	305.6	318

Table CLDt3-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
88-010000	202.853	1.000	306.1	307.6
88-020000	83.659	1.000	306.1	308
88-030000	182.966	0.994	305.2	308.4
90-010000	120.233	0.439	308.1	307.3
92-010000	505.835	0.684	307.6	314.1
94-010000	267.973	1.000	307.2	308.8
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
400-010000	82.382	0.998	303.8	382.4
408-010000	161.115	0.999	304.3	317.9
410-010000	395.598	1.000	304.3	306.5
410-020000	395.598	1.000	304.3	304.2
410-030000	395.598	1.000	304.3	304.2
410-040000	395.598	1.000	304.3	304.2
410-050000	395.598	1.000	304.3	305.6
410-060000	395.598	1.000	304.3	307.1
412-010000	161.115	1.000	304.3	312.9

Table CLDt3-4: CLPD LOCA Case 30: SG Metal Stored Energy (t= 50.5 seconds)

Table CLDt3-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	63.1	550.8
1552-001	sg sep	63	545.9
1601-001	sg sep	63.5	580.17
1621-001	sg sep	63.3	565.39
1641-001	sg sep	63.5	579.06
1641-002	sg sep	63.8	600.01
1801-001	1-lp sg sh	65.3	557.52
1801-002	1-lp sg sh	65.3	555.81
1801-003	1-lp sg sh	65.2	552.59
1802-001	1-lp sg sh	65.3	558.89
1803-001	1-lp sg sh	65.4	562.73
1803-002	1-lp sg sh	65.3	559.18
1803-003	1-lp sg sh	65.3	559.56
1803-004	1-lp sg sh	65.4	563.29
1803-005	1-lp sg sh	65.4	563.19
1804-001	1-lp sg sh	65.4	563.37
1806-001	1-lp sg sh	65.1	550.31
1807-001	1-lp sg sh	62.3	499.51
1807-002	1-lp sg sh	61.7	462.37
1808-001	1-lp sg sh	62.6	515.06
1808-002	1-lp sg sh	62.6	516.72
1808-003	1-lp sg sh	62.6	518.18
1808-004	1-lp sg sh	62.6	520.41
1808-005	1-lp sg sh	62.7	524.2
1808-006	1-lp sg sh	62.8	529.03
1808-007	1-lp sg sh	62.8	529.91
1808-008	1-lp sg sh	62.8	533.33
1808-009	1-lp sg sh	62.9	535.4
1808-010	1-lp sg sh	62	475.47
1808-011	1-lp sg sh	62	480.8
1808-012	1-lp sg sh	62.1	485.84
1808-013	1-lp sg sh	62.2	492.7

Table CLDt3-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	62.4	501.32
1808-015	1-lp sg sh	62.5	508.32
1808-016	1-lp sg sh	62.6	515.04
1808-017	1-lp sg sh	62.7	523.04
1808-018	1-lp sg sh	62.8	528.1
6241-001	DC sleeve	61.9	468.88
6241-002	DC sleeve	62	478.37
6241-003	DC sleeve	62.1	483.71
6241-004	DC sleeve	62.4	501.97
6301-001	hot DC	62.3	495.54
6301-002	hot DC	62.3	496.49
6301-003	hot DC	62.3	498.07
6301-004	hot DC	62.3	499.4
6301-005	hot DC	62.5	513.9
6301-006	hot DC	62.6	516.94
6301-007	hot DC	62.6	520.53
6301-008	hot DC	62.7	527.48
6301-009	hot DC	62.8	530.24
6301-010	hot DC	62.9	537.11
6301-011	hot DC	63.1	548.26
6311-001	cold DC	61.6	453.12
6311-002	cold DC	61.6	453.87
6311-003	cold DC	61.6	454.79
6311-004	cold DC	61.6	455.89
6311-005	cold DC	61.7	457.22
6311-006	cold DC	61.7	460
6311-007	cold DC	61.8	462.83
6311-008	cold DC	61.8	464.5
6311-009	cold DC	61.8	466.92
6311-010	cold DC	62	476.36
6311-011	cold DC	62.1	487.13
1543-001	sg sep	63.2	557.41

Table CLDt3-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	63.1	554.11
1602-001	sg sep	63.5	582.27
1622-001	sg sep	63.3	565.8
1642-001	sg sep	63.5	581.9
1642-002	sg sep	63.8	601.91
1901-001	3-lp sg sh	65.3	558.65
1901-002	3-lp sg sh	65.3	558.04
1901-003	3-lp sg sh	65.3	556.52
1902-001	3-lp sg sh	65.3	559.04
1903-001	3-lp sg sh	65.4	562.97
1903-002	3-lp sg sh	65.3	559.22
1903-003	3-lp sg sh	65.3	559.59
1903-004	3-lp sg sh	65.5	563.58
1903-005	3-lp sg sh	65.4	563.46
1904-001	3-lp sg sh	65.5	563.66
1906-001	3-lp sg sh	65.3	557.43
1907-001	3-lp sg sh	62.7	524.19
1907-002	3-lp sg sh	61.8	462.56
1908-001	3-lp sg sh	62.8	528.47
1908-002	3-lp sg sh	62.8	530.91
1908-003	3-lp sg sh	62.9	540.5
1908-004	3-lp sg sh	63	545.9
1908-005	3-lp sg sh	63.1	548.56
1908-006	3-lp sg sh	63.1	548.59
1908-007	3-lp sg sh	62.9	541.11
1908-008	3-lp sg sh	63	544.91
1908-009	3-lp sg sh	63	545.7
1908-010	3-lp sg sh	62	475.43
1908-011	3-lp sg sh	62	480.65
1908-012	3-lp sg sh	62.1	485.63
1908-013	3-lp sg sh	62.2	492.65
1908-014	3-lp sg sh	62.4	501.93
1908-015	3-lp sg sh	62.5	510

Table CLDt3-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 50.5 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	62.6	518.71
1908-017	3-lp sg sh	62.8	530.38
1908-018	3-lp sg sh	62.9	537.39
7241-001	3-lp DC sleeve	62.1	483.46
7241-002	3-lp DC sleeve	62.2	489.32
7241-003	3-lp DC sleeve	62.2	490.68
7241-004	3-lp DC sleeve	62.4	504.41
7301-001	3-lp DC	62.7	527.1
7301-002	3-lp DC	62.7	523.71
7301-003	3-lp DC	62.7	525.82
7301-004	3-lp DC	62.8	532.89
7301-005	3-lp DC	63	543.98
7301-006	3-lp DC	63	545.94
7301-007	3-lp DC	63	545.61
7301-008	3-lp DC	63	541.33
7301-009	3-lp DC	63	544.54
7301-010	3-lp DC	63	546.35
7301-011	3-lp DC	63.2	555.61
7311-001	3-lp DC cold	61.6	453.62
7311-002	3-lp DC cold	61.6	454.25
7311-003	3-lp DC cold	61.6	455.02
7311-004	3-lp DC cold	61.6	455.95
7311-005	3-lp DC cold	61.7	457.06
7311-006	3-lp DC cold	61.7	459.91
7311-007	3-lp DC cold	61.8	463.14
7311-008	3-lp DC cold	61.8	465.4
7311-009	3-lp DC cold	61.9	468.98
7311-010	3-lp DC cold	62	480.61
7311-011	3-lp DC cold	62.2	492.95

Table CLDt3-5: CLPD LOCA Case 30: SG Wall Film Conditions (t= 50.5 seconds)

Table CLPDt3-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	548.58	552.67	0.07235	0.05613
1552-001	sg sep	640-010000	623-010000	SS-316	543.52	548.01	0.07220	0.05937
1601-001	sg sep	642-010000	645-010000	SS-316	569.03	588.84	0.09375	0.20489
1621-001	sg sep	660-010000	660-010000	SS-316	583.79	583.79	0.22315	0.22315
1641-001	sg sep	645-010000	642-010000	SS-316	585.86	571.59	0.19533	0.09754
1641-002	sg sep	650-010000	650-010000	SS-316	600.61	600.65	0.43358	0.43624
1801-001	1-lp sg sh	625-020000	0	SA-508	550.39	558.81	0.14587	0
1801-002	1-lp sg sh	625-030000	0	SA-508	541.55	558.58	0.14690	0
1801-003	1-lp sg sh	625-040000	0	SA-508	524.77	558.41	0.14733	0
1802-001	1-lp sg sh	625-010000	0	SA-508	558.17	558.97	0.06943	0
1803-001	1-lp sg sh	645-010000	0	SA-508	581.53	558.95	0.18407	0
1803-002	1-lp sg sh	623-010000	0	SA-508	559.58	559.09	0.02535	0
1803-003	1-lp sg sh	639-010000	0	SA-508	561.62	559.09	0.03527	0
1803-004	1-lp sg sh	650-010000	0	SA-508	586.38	558.7	0.24289	0
1803-005	1-lp sg sh	660-010000	0	SA-508	585.81	558.69	0.22974	0
1804-001	1-lp sg sh	670-010000	0	SA-508	587.23	558.63	0.26568	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	546.31	547.48	0.07070	0.07925
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	492.91	492.91	0.07731	0.07731
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	458.39	458.39	0.13538	0.13538
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	501.8	501.8	0.08098	0.08098
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	504.43	504.43	0.07982	0.07982
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	506.73	506.73	0.07842	0.07842
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	509.83	509.83	0.07736	0.07736
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	514.74	514.74	0.07659	0.07659
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	520.44	520.44	0.07799	0.07799
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	520.62	520.62	0.08119	0.08119
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	525.06	525.06	0.07945	0.07945
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	527.59	527.59	0.07944	0.07944
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	465.19	465.19	0.13532	0.13532
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	468.94	468.94	0.13527	0.13527
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	472.76	472.76	0.13522	0.13522

Table CLPDt3-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	478.51	478.51	0.13517	0.13517
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	486.27	486.27	0.13511	0.13511
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	493.3	493.3	0.13502	0.13502
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	501.29	501.29	0.11955	0.11955
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	511.54	511.54	0.09216	0.09216
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	518.03	518.03	0.08168	0.08168
6241-001	DC sleeve	624-040000	625-040000	SS-316	455.45	478.82	0.40667	0.14733
6241-002	DC sleeve	624-030000	625-030000	SS-316	457.28	496.78	0.40654	0.14690
6241-003	DC sleeve	624-020000	625-020000	SS-316	457.77	507.91	0.40637	0.14587
6241-004	DC sleeve	624-010000	625-010000	SS-316	477.29	524.88	0.11851	0.10854
6301-001	hot DC	630-010000	625-040000	SS-316	489.94	494.01	0.07519	0.14733
6301-002	hot DC	630-020000	625-040000	SS-316	491.91	494.32	0.07541	0.14733
6301-003	hot DC	630-030000	625-040000	SS-316	494.49	495.04	0.07564	0.14733
6301-004	hot DC	630-040000	625-040000	SS-316	496.79	495.62	0.07587	0.14733
6301-005	hot DC	630-050000	625-030000	SS-316	506.87	515.89	0.07616	0.14690
6301-006	hot DC	630-060000	625-030000	SS-316	511.26	517.47	0.07653	0.14690
6301-007	hot DC	630-070000	625-030000	SS-316	515.79	519.51	0.07695	0.14690
6301-008	hot DC	632-010000	625-020000	SS-316	518.3	531.58	0.07939	0.14587
6301-009	hot DC	634-010000	625-020000	SS-316	522.68	532.93	0.07743	0.14587
6301-010	hot DC	636-010000	625-010000	SS-316	527.21	543.75	0.07913	0.06210
6301-011	hot DC	638-010000	625-010000	SS-316	542.12	551.31	0.06635	0.05626
6311-001	cold DC	631-010000	624-040000	SS-316	452.86	451.33	0.13538	0.40667
6311-002	cold DC	631-020000	624-040000	SS-316	453.78	451.57	0.13532	0.40667
6311-003	cold DC	631-030000	624-040000	SS-316	455.01	451.86	0.13527	0.40667
6311-004	cold DC	631-040000	624-040000	SS-316	456.55	452.18	0.13522	0.40667
6311-005	cold DC	631-050000	624-030000	SS-316	459.08	452.12	0.13517	0.40654
6311-006	cold DC	631-060000	624-030000	SS-316	463.6	452.85	0.13511	0.40654
6311-007	cold DC	631-070000	624-030000	SS-316	468.42	453.56	0.13502	0.40654
6311-008	cold DC	633-010000	624-020000	SS-316	472.38	453.21	0.11955	0.40637
6311-009	cold DC	635-010000	624-020000	SS-316	476.77	453.79	0.09216	0.40637
6311-010	cold DC	637-010000	624-010000	SS-316	484.38	464.65	0.07303	0.11851
6311-011	cold DC	638-010000	624-010000	SS-316	501.22	470.11	0.06745	0.11851

Table CLPDt3-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	556.13	558.55	0.06251	0.06921
1553-001	sg sep	740-010000	723-010000	SS-316	552.6	555.45	0.06488	0.07327
1602-001	sg sep	742-010000	745-010000	SS-316	572.56	590.76	0.08468	0.20054
1622-001	sg sep	760-010000	760-010000	SS-316	585.32	585.32	0.22244	0.22244
1642-001	sg sep	745-010000	742-010000	SS-316	588.04	575.58	0.19145	0.09030
1642-002	sg sep	750-010000	750-010000	SS-316	602.31	602.34	0.45799	0.46017
1901-001	3-lp sg sh	725-020000	0	SA-508	557.36	558.81	0.12755	0
1901-002	3-lp sg sh	725-030000	0	SA-508	554.55	558.58	0.12830	0
1901-003	3-lp sg sh	725-040000	0	SA-508	546.11	558.42	0.12941	0
1902-001	3-lp sg sh	725-010000	0	SA-508	559.31	558.97	0.04948	0
1903-001	3-lp sg sh	745-010000	0	SA-508	582.95	558.95	0.17775	0
1903-002	3-lp sg sh	723-010000	0	SA-508	559.89	559.09	0.04499	0
1903-003	3-lp sg sh	739-010000	0	SA-508	561.85	559.08	0.04860	0
1903-004	3-lp sg sh	750-010000	0	SA-508	588.07	558.7	0.24503	0
1903-005	3-lp sg sh	760-010000	0	SA-508	587.42	558.69	0.22935	0
1904-001	3-lp sg sh	770-010000	0	SA-508	588.93	558.63	0.26570	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	554.53	555.72	0.06608	0.07180
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	520.2	520.2	0.07403	0.07403
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	458.73	458.73	0.13793	0.13793
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	519.74	519.74	0.07245	0.07245
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	523.28	523.28	0.06662	0.06662
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	534.59	534.59	0.06764	0.06764
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	541.25	541.25	0.06941	0.06941
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	544.41	544.41	0.07178	0.07178
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	543.73	543.73	0.07853	0.07853
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	532.62	532.62	0.08405	0.08405
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	538.06	538.06	0.08045	0.08045
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	539.43	539.43	0.07841	0.07841
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	465.22	465.22	0.13794	0.13794
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	468.7	468.7	0.13794	0.13794
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	472.27	472.27	0.13796	0.13796

Table CLPDt3-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 50.5 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	477.86	477.86	0.13798	0.13798
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	485.97	485.97	0.13804	0.13804
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	493.97	493.97	0.13810	0.13810
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	504.26	504.26	0.11997	0.11997
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	519.29	519.29	0.08755	0.08755
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	528.02	528.02	0.08410	0.08410
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	459.34	503.33	0.41420	0.12941
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	459.97	515.75	0.41399	0.12830
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	459.27	520.36	0.41376	0.12755
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	478.1	529.59	0.12065	0.11568
7301-001	3-lp DC	730-010000	725-040000	SS-316	521.64	526.57	0.07545	0.12941
7301-002	3-lp DC	730-020000	725-040000	SS-316	518.48	524.37	0.07105	0.12941
7301-003	3-lp DC	730-030000	725-040000	SS-316	522.57	525.22	0.06662	0.12941
7301-004	3-lp DC	730-040000	725-040000	SS-316	531.73	529.24	0.06663	0.12941
7301-005	3-lp DC	730-050000	725-030000	SS-316	540.32	544.33	0.06817	0.12830
7301-006	3-lp DC	730-060000	725-030000	SS-316	542.62	545.49	0.06959	0.12830
7301-007	3-lp DC	730-070000	725-030000	SS-316	540.6	545.7	0.07561	0.12830
7301-008	3-lp DC	732-010000	725-020000	SS-316	530.18	547.86	0.08230	0.12755
7301-009	3-lp DC	734-010000	725-020000	SS-316	535.96	549.24	0.07870	0.12755
7301-010	3-lp DC	736-010000	725-010000	SS-316	538.14	551.77	0.07725	0.06209
7301-011	3-lp DC	738-010000	725-010000	SS-316	551.32	557.78	0.06206	0.04948
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	453.46	451.84	0.13793	0.41420
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	454.28	452.03	0.13794	0.41420
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	455.29	452.27	0.13794	0.41420
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	456.56	452.55	0.13796	0.41420
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	458.69	452.31	0.13798	0.41399
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	463.09	453.08	0.13804	0.41399
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	468.32	453.92	0.13810	0.41399
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	473.21	453.6	0.11997	0.41376
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	479.61	454.45	0.08755	0.41376
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	489.87	467.06	0.06513	0.12065
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	510.23	472.9	0.07338	0.12065

Table CLDt3-6: CLPD LOCA Case 30: SG Fluid Conditions (t= 50.5 seconds)

Table CLPDt3-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	550.7	602.55
623-010000	366.645	0.000	560.02	602.55
624-010000	155.893	0.000	447.95	602.77
624-020000	43.006	0.000	448.72	603.04
624-030000	59.135	0.000	449.66	603.39
624-040000	43.006	0.000	450.19	603.73
625-010000	180.020	0.000	549.96	602.73
625-020000	73.345	0.000	528.63	602.99
625-030000	100.851	0.000	510.22	603.32
625-040000	73.345	0.000	483.45	603.65
630-010000	70.116	0.000	468.94	603.77
630-020000	70.116	0.000	473.3	603.7
630-030000	70.116	0.000	477.89	603.63
630-040000	70.116	0.000	482.34	603.56
630-050000	105.180	0.000	487.06	603.47
630-060000	140.232	0.000	493.27	603.35
630-070000	140.232	0.000	497.7	603.2
631-010000	70.116	0.000	450.34	603.8
631-020000	70.116	0.000	450.93	603.73
631-030000	70.116	0.000	451.95	603.66
631-040000	70.116	0.000	453.42	603.58
631-050000	105.180	0.000	456.63	603.49
631-060000	140.232	0.000	462.3	603.36
631-070000	140.232	0.000	468.79	603.22
632-010000	140.232	0.000	493.55	603.06
633-010000	140.232	0.000	475.57	603.07
634-010000	140.232	0.000	500.79	602.92
635-010000	140.232	0.000	484.1	602.93
636-010000	86.672	0.000	503.45	602.81
637-010000	86.672	0.000	490	602.81
638-010000	609.522	0.000	522.17	602.68
639-010000	635.282	0.000	562.67	602.44
640-010000	125.309	0.000	528.45	602.53

Table CLPDt3-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
641-010000	117.514	0.000	533.82	602.42
642-010000	320.019	0.030	544.63	602.28
645-010000	1075.296	0.710	556.67	632.08
650-010000	830.204	1.000	601.9	624.22
660-010000	703.676	1.000	602.16	620.92
670-010000	400.000	1.000	602.15	618.52
R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
720-010000	1099.935	0.000	550.88	603.95
723-010000	1099.935	0.000	561.75	603.95
724-010000	467.679	0.000	448.06	604.16
724-020000	129.019	0.000	448.92	604.43
724-030000	177.404	0.000	450.03	604.78
724-040000	129.019	0.000	450.74	605.12
725-010000	540.019	0.000	557.71	604.13
725-020000	220.035	0.000	549.19	604.38
725-030000	302.553	0.000	538.72	604.7
725-040000	220.035	0.000	517.37	605.02
730-010000	210.349	0.000	501.9	605.13
730-020000	210.349	0.000	502.99	605.06
730-030000	210.349	0.000	512.08	605
730-040000	210.349	0.000	522.35	604.93
730-050000	315.541	0.000	527.85	604.84
730-060000	420.697	0.000	529.13	604.73
730-070000	420.697	0.000	521.46	604.59
731-010000	210.349	0.000	451.26	605.19
731-020000	210.349	0.000	451.97	605.12
731-030000	210.349	0.000	452.87	605.05
731-040000	210.349	0.000	454.02	604.97
731-050000	315.541	0.000	456.56	604.88
731-060000	420.697	0.000	461.58	604.75
731-070000	420.697	0.000	468.08	604.61

Table CLPDt3-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 50.5 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
732-010000	420.697	0.000	502.26	604.46
733-010000	420.697	0.000	475.64	604.46
734-010000	420.697	0.000	513.09	604.32
735-010000	420.697	0.000	487.25	604.32
736-010000	260.017	0.000	517.09	604.21
737-010000	260.017	0.000	497.2	604.21
738-010000	1828.567	0.000	535.83	604.08
739-010000	1905.846	0.000	564.17	603.84
740-010000	375.926	0.000	541.79	603.93
741-010000	352.543	0.000	546.53	603.83
742-010000	960.056	0.000	555.24	603.92
745-010000	3225.888	0.689	563.11	636.29
750-010000	2490.612	0.951	581.78	624.57
760-010000	2111.028	1.000	603.56	622.87
770-010000	1200.000	1.000	603.55	620.29

Table CLDt4-1: CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

Table CLDt4-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	60.5	383.77
1001-002	3-lp HL	60.7	398.05
1001-003	3-lp HL	61.2	428.13
1001-004	3-lp HL	59.0	298.98
1081-001	1-lp sg ch	60.2	366.19
1081-002	1-lp sg ch	62.9	538.32
1082-001	3-lp sg ch	60.1	361.43
1082-002	3-lp sg ch	63.0	542.51
1091-001	1-lp sg ch	59.0	296.63
1091-002	1-lp sg ch	59.0	294.48
1092-001	3-lp sg ch	59.0	295.65
1092-002	3-lp sg ch	59.2	304.92
1251-001	3-lp SG tube	59.0	295.3
1251-002	3-lp SG tube	59.0	295.13
1251-003	3-lp SG tube	59.0	295
1251-004	3-lp SG tube	59.0	294.87
1251-005	3-lp SG tube	59.0	294.73
1251-006	3-lp SG tube	59.0	294.51
1251-007	3-lp SG tube	59.0	294.31
1251-008	3-lp SG tube	59.0	294.15
1251-009	3-lp SG tube	59.0	294.55
1251-010	3-lp SG tube	59.7	332.86
1251-011	3-lp SG tube	59.8	339.45
1251-012	3-lp SG tube	59.0	294.34
1251-013	3-lp SG tube	59.0	293.81
1251-014	3-lp SG tube	59.0	295.76
1251-015	3-lp SG tube	59.0	297.61
1251-016	3-lp SG tube	59.0	296.91
1251-017	3-lp SG tube	59.0	295.41
1251-018	3-lp SG tube	59.0	295.09
1251-019	3-lp SG tube	59.0	295.01
1251-020	3-lp SG tube	59.0	294.97

Table CLDt4-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	60.9	409.14
1401-002	3-lp CL	60.9	407.88
1401-003	3-lp CL	60.7	399.83
1401-004	3-lp CL	60.7	398.87
1401-005	3-lp CL	60.6	394.53
1401-006	3-lp CL	60.7	400.14
1701-001	3-lp CLd	59.2	313.29
1701-002	3-lp CLd	59.0	301.74
1701-003	3-lp CLd	58.7	283.79
1701-004	3-lp CLd	59.1	307.87
1905-001	3-lp sg sh	59.0	294.96
1805-001	1-lp sg sh	59.0	295.34
2001-001	1-lp HL	59.6	332.09
2001-002	1-lp HL	60.2	368.45
2001-003	1-lp HL	61.2	426.05
2001-004	1-lp HL	59.0	299.8
2251-001	sngl tube	59.0	296.24
2251-002	sngl tube	59.0	296.16
2251-003	sngl tube	59.0	296.04
2251-004	sngl tube	59.0	295.92
2251-005	sngl tube	59.0	295.78
2251-006	sngl tube	59.0	295.56
2251-007	sngl tube	59.0	295.35
2251-008	sngl tube	59.0	295.14
2251-009	sngl tube	59.0	294.93
2251-010	sngl tube	59.0	295.21
2251-011	sngl tube	59.0	295.25
2251-012	sngl tube	59.0	294.68
2251-013	sngl tube	59.0	294.66
2251-014	sngl tube	59.0	294.64
2251-015	sngl tube	59.0	294.63
2251-016	sngl tube	59.0	294.62

Table CLDt4-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	59.0	294.6
2251-018	sngl tube	59.0	294.6
2251-019	sngl tube	59.0	294.59
2251-020	sngl tube	59.0	294.58
2401-001	1-lp CL suc	60.2	366.38
2401-002	1-lp CL suc	60.2	368.41
2401-003	1-lp CL suc	60.2	366.05
2401-004	1-lp CL suc	60.2	367.82
2401-005	1-lp CL suc	60.0	355.63
2401-006	1-lp CL suc	60.0	358.36
2701-001	1-lp CL dis	58.9	296.8
2701-002	1-lp CL dis	58.9	291.91
2701-003	1-lp CL dis	58.8	291.33
2701-004	1-lp CL dis	58.8	288.96
101-001	RPV head	63.4	554.06
101-002	RPV head	63.3	479.1
102-001	RPV head flange	63.1	535.17
103-001	RPV nozzle	63.1	530.78
103-002	RPV nozzle	62.0	456.37
104-001	RPV int shell	61.2	402.51
104-002	RPV int shell	60.3	340.71
104-003	RPV int shell	60.5	349.15
105-001	RPV lower shell	60.3	334.84
105-002	RPV lower shell	60.3	341.46
106-001	RPV lower hd	59.3	270.64
106-002	RPV lower hd	58.8	305.47
201-001	core barrel	60.6	393.14
201-002	core barrel	58.6	278.12
201-003	core barrel	58.5	269.9
201-004	core barrel	58.4	269.68
201-005	core barrel	58.5	270.3
201-006	core barrel	58.4	269.11

Table CLDt4-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	58.0	243.64
203-001	fl dis dvce	58.2	254.58
204-001	HR	58.6	279.15
204-002	HR	58.7	280.76
204-003	HR	58.7	283.43
204-004	HR	58.7	286.04
204-005	HR	58.8	289.04
204-006	HR	58.9	291.83
204-007	HR	58.9	295.14
204-008	HR	58.9	296.44
204-009	HR	59.0	297.19
204-010	HR	59.0	297.54
204-011	HR	59.0	297.65
204-012	HR	59.0	297.66
204-013	HR	59.0	297.61
204-014	HR	59.0	298.04
204-015	HR	59.0	297.97
204-016	HR	59.0	297.91
204-017	HR	59.0	297.85
204-018	HR	59.0	297.8
204-019	HR	59.0	297.74
204-020	HR	59.0	297.61
204-021	HR	59.0	297.56
204-022	HR	59.0	297.51
204-023	HR	59.0	297.45
204-024	HR	59.0	297.4
204-025	HR	59.0	297.36
204-026	HR	59.0	297.32
204-027	HR	59.0	297.28
204-028	HR	59.0	297.17
205-001	UPR core plt	59.0	297.39
206-001	LMP	59.0	297.49
206-002	LMP	60.7	398.96

Table CLDt4-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	62.3	501.07
208-001	CRGA	59.0	297.5
208-002	CRGA	60.2	370.18
208-003	CRGA	59.2	310.5
4001-001	pzr srg	64.4	521.55
4101-001	pzr srg	67.4	638.64
4101-002	pzr srg	67.5	645.82
4101-003	pzr srg	67.6	648.86
4101-004	pzr srg	67.7	651.49
4101-005	pzr srg	67.7	652.52
4101-006	pzr srg	67.7	652.75
4201-001	prz hd	67.1	630.48
4301-001	prz upr hd	67.7	654.29
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	41.9	276.92
301-002	FUEL ASS	42.2	293.16
301-003	FUEL ASS	42.4	307.01
301-004	FUEL ASS	42.5	315.54
301-005	FUEL ASS	42.5	319.03
301-006	FUEL ASS	42.6	321.19
301-007	FUEL ASS	42.6	322.99
301-008	FUEL ASS	42.6	324.51
301-009	FUEL ASS	42.6	325.75
301-010	FUEL ASS	42.6	326.72
301-011	FUEL ASS	42.6	327.34
301-012	FUEL ASS	42.6	327.68
301-013	FUEL ASS	42.6	327.72
301-014	FUEL ASS	42.6	327.39
301-015	FUEL ASS	42.6	326.71
301-016	FUEL ASS	42.6	325.85

Table CLDt4-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	42.6	324.7
301-018	FUEL ASS	42.6	323.37
301-019	FUEL ASS	42.6	321.92
301-020	FUEL ASS	42.5	320.01
301-021	FUEL ASS	42.5	317.81
301-022	FUEL ASS	42.5	315.7
301-023	FUEL ASS	42.4	313.04
301-024	FUEL ASS	42.4	310.01
301-025	FUEL ASS	42.4	307.52
301-026	FUEL ASS	42.3	305.77
301-027	FUEL ASS	42.3	303.88
301-028	FUEL ASS	42.2	297.32
301-001	**Fuel Cladding**	**29.5**	**276.92**
301-002	**Fuel Cladding**	**29.6**	**293.16**
301-003	**Fuel Cladding**	**29.7**	**307.01**
301-004	**Fuel Cladding**	**29.7**	**315.54**
301-005	**Fuel Cladding**	**29.7**	**319.03**
301-006	**Fuel Cladding**	**29.7**	**321.19**
301-007	**Fuel Cladding**	**29.7**	**322.99**
301-008	**Fuel Cladding**	**29.7**	**324.51**
301-009	**Fuel Cladding**	**29.7**	**325.75**
301-010	**Fuel Cladding**	**29.7**	**326.72**
301-011	**Fuel Cladding**	**29.7**	**327.34**
301-012	**Fuel Cladding**	**29.7**	**327.68**
301-013	**Fuel Cladding**	**29.7**	**327.72**
301-014	**Fuel Cladding**	**29.7**	**327.39**
301-015	**Fuel Cladding**	**29.7**	**326.71**
301-016	**Fuel Cladding**	**29.7**	**325.85**
301-017	**Fuel Cladding**	**29.7**	**324.7**
301-018	**Fuel Cladding**	**29.7**	**323.37**
301-019	**Fuel Cladding**	**29.7**	**321.92**
301-020	**Fuel Cladding**	**29.7**	**320.01**
301-021	**Fuel Cladding**	**29.7**	**317.81**

Table CLDt4-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	**Fuel Cladding**	**29.7**	**315.7**
301-023	**Fuel Cladding**	**29.7**	**313.04**
301-024	**Fuel Cladding**	**29.7**	**310.01**
301-025	**Fuel Cladding**	**29.7**	**307.52**
301-026	**Fuel Cladding**	**29.6**	**305.77**
301-027	**Fuel Cladding**	**29.6**	**303.88**
301-028	**Fuel Cladding**	**29.6**	**297.32**

Table CLDt4-2: CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

Table CLDt4-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	323.92	413.01	0.00182	0
1001-002	3-lp HL	105-010000	0	SS-316	346.03	424.59	0.00191	0
1001-003	3-lp HL	110-010000	0	SS-316	399.85	444.41	0.00166	0
1001-004	3-lp HL	115-010000	0	SS-316	297.46	299.96	0.11369	0
1081-001	1-lp sg ch	220-010000	0	SS-316	304.18	400.27	0.08178	0
1081-002	1-lp sg ch	230-010000	0	SS-316	525.05	544.38	0.00125	0
1082-001	3-lp sg ch	120-010000	0	SS-316	300.89	394.32	0.13821	0
1082-002	3-lp sg ch	130-010000	0	SS-316	532.8	547.18	0.00075	0
1091-001	1-lp sg ch	221-010000	0	alloy690	296.51	296.67	0.32	0
1091-002	1-lp sg ch	229-010000	0	alloy690	294.59	294.46	1.8169	0
1092-001	3-lp sg ch	121-010000	0	alloy690	295.57	295.67	0.15281	0
1092-002	3-lp sg ch	129-010000	0	alloy690	304.85	304.94	0.00344	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	295.29	295.3	0.10397	0.02315
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	295.13	295.14	0.11482	0.01938
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	295	295	0.07176	0.01938
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	294.87	294.87	0.08436	0.02028
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	294.73	294.72	1.7933	0.02193
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	294.52	294.51	1.478	0.02059
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	294.32	294.3	1.5968	0.01938
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	294.14	294.16	0.09255	0.03405
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	294.49	294.61	0.07666	0.04897
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	332.45	333.26	0.01271	0.07433
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	339.37	339.52	0.00217	0.05299
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	294.28	294.41	0.14761	0.04913
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	293.8	293.81	4.1833	0.03544
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	295.5	295.99	0.20958	0.06164
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	297.08	297.99	0.27293	0.06151
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	296.49	297.23	0.24777	0.06217
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	295.22	295.6	0.18523	0.05964
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	294.94	295.23	0.16522	0.05673
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	294.87	295.15	0.16384	0.05625

Table CLDt4-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	294.83	295.11	0.17224	0.0564
1401-001	3-lp CL	135-010000	0	SS-316	397.91	414.73	0.00354	0
1401-002	3-lp CL	140-010000	0	SS-316	395.04	414.54	0.00346	0
1401-003	3-lp CL	145-010000	0	SS-316	378.44	411.97	0.0035	0
1401-004	3-lp CL	150-010000	0	SS-316	374.93	412.51	0.00351	0
1401-005	3-lp CL	155-010000	0	SS-316	367.47	409.94	0.0037	0
1401-006	3-lp CL	160-010000	0	SS-316	377.16	412.91	0.00364	0
1701-001	3-lp CLd	165-010000	0	SS-316	295.33	323.53	0.20642	0
1701-002	3-lp CLd	170-010000	0	SS-316	292.72	307.44	0.23942	0
1701-003	3-lp CLd	175-010000	0	SS-316	284.91	284.91	0.16102	0
1701-004	3-lp CLd	180-010000	0	SS-316	291.21	318.83	0.16399	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	296.07	294.25	0.02619	0.02743
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	296.86	294.6	0.03229	1.5335
2001-001	1-lp HL	200-010000	0	SS-316	300.06	349.39	0.27362	0
2001-002	1-lp HL	205-010000	0	SS-316	303.18	400.42	0.28625	0
2001-003	1-lp HL	210-010000	0	SS-316	404.39	436.58	0.00563	0
2001-004	1-lp HL	215-010000	0	SS-316	297.28	301.32	0.2762	0
2251-001	sngl tube	225-010000	630-010000	alloy690	296.24	296.23	2.258	0.01938
2251-002	sngl tube	225-020000	630-020000	alloy690	296.17	296.15	2.6957	0.02244
2251-003	sngl tube	225-030000	630-030000	alloy690	296.04	296.03	3.4172	0.02434
2251-004	sngl tube	225-040000	630-040000	alloy690	295.95	295.91	1.6618	0.02526
2251-005	sngl tube	225-050000	630-050000	alloy690	295.79	295.77	2.0261	0.01938
2251-006	sngl tube	225-060000	630-060000	alloy690	295.56	295.56	2.5164	0.0213
2251-007	sngl tube	225-070000	630-070000	alloy690	295.35	295.35	0.21602	0.02469
2251-008	sngl tube	225-080000	632-010000	alloy690	295.14	295.14	0.22767	0.01974
2251-009	sngl tube	225-090000	634-010000	alloy690	294.94	294.92	1.7774	0.01938
2251-010	sngl tube	225-100000	636-010000	alloy690	295.13	295.28	0.28664	0.04967
2251-011	sngl tube	225-110000	637-010000	alloy690	295.15	295.33	0.27744	0.0514
2251-012	sngl tube	225-120000	635-010000	alloy690	294.69	294.68	1.9177	0.01938
2251-013	sngl tube	225-130000	633-010000	alloy690	294.68	294.65	1.7347	0.02888
2251-014	sngl tube	225-140000	631-070000	alloy690	294.66	294.63	1.6419	0.03153

Table CLDt4-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	294.65	294.61	1.6266	0.03144
2251-016	sngl tube	225-160000	631-050000	alloy690	294.64	294.6	1.7704	0.03133
2251-017	sngl tube	225-170000	631-040000	alloy690	294.63	294.59	1.9514	0.03287
2251-018	sngl tube	225-180000	631-030000	alloy690	294.62	294.58	1.948	0.0328
2251-019	sngl tube	225-190000	631-020000	alloy690	294.61	294.57	1.9503	0.03272
2251-020	sngl tube	225-200000	631-010000	alloy690	294.6	294.56	1.9298	0.03262
2401-001	1-lp CL suc	235-010000	0	SS-316	299.98	395.54	0.34186	0
2401-002	1-lp CL suc	240-010000	0	SS-316	300.16	397.94	0.34268	0
2401-003	1-lp CL suc	245-010000	0	SS-316	299.69	396.08	0.34674	0
2401-004	1-lp CL suc	250-010000	0	SS-316	299.96	397.83	0.34485	0
2401-005	1-lp CL suc	255-010000	0	SS-316	298.59	384.14	0.35095	0
2401-006	1-lp CL suc	260-010000	0	SS-316	298.38	386.39	0.34449	0
2701-001	1-lp CL dis	265-010000	0	SS-316	293.33	298.71	0.34051	0
2701-002	1-lp CL dis	270-010000	0	SS-316	289.4	292.48	0.27188	0
2701-003	1-lp CL dis	275-010000	0	SS-316	290.88	292.23	0.35082	0
2701-004	1-lp CL dis	280-010000	0	SS-316	288.42	289.97	0.40212	0
101-001	RPV head	94-010000	0	alloy600	544.97	558.4	0.00072	0
101-002	RPV head	90-010000	0	SA-508	452.24	490.89	0.00109	0
102-001	RPV head flange	90-010000	0	alloy600	473.13	562.68	0.00111	0
103-001	RPV nozzle	10-010000	0	alloy600	422.15	556.36	0.00068	0
103-002	RPV nozzle	12-010000	0	alloy600	286.3	530.68	0.21864	0
104-001	RPV int shell	12-010000	0	alloy600	284.83	461.97	0.21029	0
104-002	RPV int shell	14-010000	0	alloy600	257.89	387.19	0.05511	0
104-003	RPV int shell	16-010000	0	alloy600	264.48	396.01	0.0537	0
105-001	RPV lower shell	16-010000	0	alloy600	263.16	375.15	0.05219	0
105-002	RPV lower shell	18-010000	0	alloy600	268.97	380.99	0.05215	0
106-001	RPV lower hd	18-010000	0	alloy600	254.41	282.98	0.02397	0
106-002	RPV lower hd	20-010000	0	SA-508	273.97	320.12	0.04404	0
201-001	core barrel	10-010000	86-010000	SS-316	330.29	429.91	0.00081	0.00058
201-002	core barrel	12-010000	84-010000	SS-316	271.45	296.45	0.17154	0.75216
201-003	core barrel	14-010000	80-040000	SS-316	246.53	295.96	0.04139	0.47727

Table CLDt4-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	246.44	296.26	0.04126	0.38464
201-005	core barrel	16-010000	80-020000	SS-316	251.56	295.18	0.03444	0.27153
201-006	core barrel	16-010000	80-010000	SS-316	251.22	293.12	0.03369	0.24458
202-001	low sup plate	22-010000	0	SS-316	248.9	241.49	0.0397	0
203-001	fl dis dvce	22-010000	0	SS-316	255.36	254.1	0.03063	0
204-001	HR	24-010000	80-010000	SS-316	273.46	294.17	0.04955	0.24458
204-002	HR	26-010000	80-010000	SS-316	278.41	294.29	0.06001	0.24458
204-003	HR	28-010000	80-010000	SS-316	284.36	294.49	0.06491	0.24458
204-004	HR	30-010000	80-010000	SS-316	287.25	294.7	0.04214	0.24458
204-005	HR	32-010000	80-010000	SS-316	293.05	294.94	0.0852	0.24458
204-006	HR	34-010000	80-010000	SS-316	296.65	295.17	0.15629	0.24458
204-007	HR	36-010000	80-020000	SS-316	298.53	297.24	0.26231	0.27504
204-008	HR	38-010000	80-020000	SS-316	299.06	297.32	0.45028	0.27526
204-009	HR	40-010000	80-020000	SS-316	299.12	297.37	1.2049	0.2754
204-010	HR	42-010000	80-020000	SS-316	299.08	297.39	0.08879	0.27547
204-011	HR	44-010000	80-020000	SS-316	299.01	297.4	0.10191	0.27549
204-012	HR	46-010000	80-020000	SS-316	298.9	297.4	0.11484	0.27549
204-013	HR	48-010000	80-020000	SS-316	298.77	297.39	0.12421	0.27548
204-014	HR	50-010000	80-030000	SS-316	298.69	297.97	0.12887	0.58797
204-015	HR	52-010000	80-030000	SS-316	298.55	297.97	0.14487	0.58585
204-016	HR	54-010000	80-030000	SS-316	298.43	297.96	0.15765	0.5839
204-017	HR	56-010000	80-030000	SS-316	298.32	297.96	0.13712	0.58209
204-018	HR	58-010000	80-030000	SS-316	298.21	297.96	0.15988	0.58036
204-019	HR	60-010000	80-030000	SS-316	298.1	297.96	0.18908	0.57871
204-020	HR	62-010000	80-040000	SS-316	297.98	297.3	0.17421	0.3003
204-021	HR	64-010000	80-040000	SS-316	297.87	297.3	0.15495	0.3002
204-022	HR	66-010000	80-040000	SS-316	297.77	297.29	0.18972	0.30009
204-023	HR	68-010000	80-040000	SS-316	297.66	297.29	0.17669	0.29999
204-024	HR	70-010000	80-040000	SS-316	297.56	297.29	0.15092	0.29989
204-025	HR	72-010000	80-040000	SS-316	297.48	297.29	0.15803	0.29981
204-026	HR	74-010000	80-040000	SS-316	297.43	297.28	0.17443	0.29974
204-027	HR	76-010000	80-040000	SS-316	297.36	297.28	0.17956	0.29967

Table CLDt4-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	297.17	297.28	0.12996	0.29946
205-001	UPR core plt	84-010000	0	SS-316	297.47	297.33	0.02652	0
206-001	LMP	84-010000	0	SS-316	297.43	297.51	0.02637	0
206-002	LMP	86-010000	0	SS-316	398.77	399.05	0.00053	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	499.78	495.16	0.00067	0.00066
208-001	CRGA	84-010000	0	SS-316	297.45	297.53	0.02644	0
208-002	CRGA	86-010000	0	SS-316	370.08	370.24	0.00047	0
208-003	CRGA	92-010000	0	SS-316	310.5	310.51	0.00024	0
4001-001	pzr srg	400-010000	0	SA-508	520.75	521.91	0.00155	0
4101-001	pzr srg	410-010000	0	SA-508	636.87	639.59	0.0004	0
4101-002	pzr srg	410-020000	0	SA-508	644.76	646.4	0.00035	0
4101-003	pzr srg	410-030000	0	SA-508	648.26	649.19	0.0003	0
4101-004	pzr srg	410-040000	0	SA-508	651.15	651.69	0.00025	0
4101-005	pzr srg	410-050000	0	SA-508	652.33	652.63	0.00021	0
4101-006	pzr srg	410-060000	0	SA-508	652.66	652.81	0.00016	0
4201-001	prz hd	408-010000	0	SA-508	627.89	631.8	0.00046	0
4301-001	prz upr hd	412-010000	0	SA-508	654.26	654.3	0.00012	0
				Surface Temp	Surface Temp	HTC	HTC	
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLDt4-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	**Fuel Cladding**	**0**	**24-010000**	**cladding**		**277**		**0.04163**
301-002	**Fuel Cladding**	**0**	**26-010000**	**cladding**		**289.81**		**0.04216**
301-003	**Fuel Cladding**	**0**	**28-010000**	**cladding**		**301.65**		**0.04346**
301-004	**Fuel Cladding**	**0**	**30-010000**	**cladding**		**307.54**		**0.05784**
301-005	**Fuel Cladding**	**0**	**32-010000**	**cladding**		**309.11**		**0.06889**
301-006	**Fuel Cladding**	**0**	**34-010000**	**cladding**		**309.87**		**0.07240**
301-007	**Fuel Cladding**	**0**	**36-010000**	**cladding**		**310.39**		**0.07483**
301-008	**Fuel Cladding**	**0**	**38-010000**	**cladding**		**310.78**		**0.07824**
301-009	**Fuel Cladding**	**0**	**40-010000**	**cladding**		**311.04**		**0.08188**
301-010	**Fuel Cladding**	**0**	**42-010000**	**cladding**		**311.2**		**0.08469**
301-011	**Fuel Cladding**	**0**	**44-010000**	**cladding**		**311.24**		**0.08663**
301-012	**Fuel Cladding**	**0**	**46-010000**	**cladding**		**311.18**		**0.09022**
301-013	**Fuel Cladding**	**0**	**48-010000**	**cladding**		**311.15**		**0.09224**
301-014	**Fuel Cladding**	**0**	**50-010000**	**cladding**		**310.88**		**0.08059**
301-015	**Fuel Cladding**	**0**	**52-010000**	**cladding**		**310.28**		**0.09104**

Table CLDt4-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	**Fuel Cladding**	**0**	**54-010000**	**cladding**		**310.11**		**0.09494**
301-017	**Fuel Cladding**	**0**	**56-010000**	**cladding**		**309.68**		**0.06630**
301-018	**Fuel Cladding**	**0**	**58-010000**	**cladding**		**308.65**		**0.07530**
301-019	**Fuel Cladding**	**0**	**60-010000**	**cladding**		**308.23**		**0.10630**
301-020	**Fuel Cladding**	**0**	**62-010000**	**cladding**		**307.96**		**0.06915**
301-021	**Fuel Cladding**	**0**	**64-010000**	**cladding**		**306.73**		**0.04881**
301-022	**Fuel Cladding**	**0**	**66-010000**	**cladding**		**305.66**		**0.07558**
301-023	**Fuel Cladding**	**0**	**68-010000**	**cladding**		**304.46**		**0.04561**
301-024	**Fuel Cladding**	**0**	**70-010000**	**cladding**		**302.71**		**0.03116**
301-025	**Fuel Cladding**	**0**	**72-010000**	**cladding**		**301.45**		**0.02643**
301-026	**Fuel Cladding**	**0**	**74-010000**	**cladding**		**300.41**		**0.02962**
301-027	**Fuel Cladding**	**0**	**76-010000**	**cladding**		**299.39**		**0.03939**
301-028	**Fuel Cladding**	**0**	**78-010000**	**cladding**		**297.15**		**0.02402**

Table CLDt4-3: CLPD LOCA Case 30: RCS Fluid Conditions (t= 4000 seconds)

Table CLDt4-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.997	296.8	298.1
105-010000	112.108	0.995	296.8	298.9
110-010000	90.692	0.999	296.8	305.1
115-010000	99.530	0.765	296.5	302.4
117-010000	34.487	0.477	296.1	297.2
120-010000	605.616	0.571	295.9	295.7
121-010000	90.006	0.888	295.3	295.3
125-010000	104.546	0.888	295.2	295.2
125-020000	104.546	0.875	295.1	295.1
125-030000	104.546	0.881	295	295
125-040000	104.546	0.892	294.9	294.9
125-050000	156.828	0.885	294.7	294.9
125-060000	209.092	0.892	294.5	294.7
125-070000	209.092	0.893	294.3	294.5
125-080000	209.092	0.893	294.1	294.1
125-090000	209.092	0.892	293.9	293.9
125-100000	182.764	0.980	293.8	297.4
125-110000	182.764	0.994	293.8	301.2
125-120000	209.092	0.993	293.8	297.5
125-130000	209.092	0.991	293.8	295.9
125-140000	209.092	0.988	293.8	294.7
125-150000	209.092	0.990	293.8	294.1
125-160000	156.828	0.994	293.8	293.9
125-170000	104.546	0.997	293.8	293.9
125-180000	104.546	0.997	293.8	293.9
125-190000	104.546	0.997	293.8	293.9
125-200000	104.546	0.996	293.8	293.8
129-010000	90.006	0.999	293.8	296
130-010000	605.616	0.996	293.8	296
132-010000	34.487	0.997	293.8	295.7
135-010000	51.857	0.998	293.8	296
140-010000	61.586	0.998	293.8	296.3

Table CLDt4-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	0.998	293.8	296.4
150-010000	102.591	0.998	293.7	297.5
155-010000	108.946	0.996	293.8	296.7
160-010000	413.100	0.996	293.6	294.7
165-010000	105.120	0.992	293.4	294.3
170-010000	105.120	0.934	286.6	294.4
175-010000	135.835	0.905	171.2	294.5
180-010000	116.691	0.959	180	294.4
200-010000	37.369	0.978	296.7	298.8
205-010000	37.369	0.977	296.7	298.8
210-010000	30.231	0.996	296.7	299.9
215-010000	33.177	0.996	296.7	298.7
217-010000	11.496	0.933	296.7	298.1
220-010000	201.872	0.766	296.6	297.8
221-010000	30.002	0.878	296.4	296.6
225-010000	34.849	0.902	296.2	296.3
225-020000	34.849	0.914	296.1	296.1
225-030000	34.849	0.913	296	296
225-040000	34.849	0.903	295.9	296.1
225-050000	52.276	0.906	295.8	295.8
225-060000	69.697	0.907	295.6	295.6
225-070000	69.697	0.916	295.3	295.3
225-080000	69.697	0.920	295.1	295.1
225-090000	69.697	0.914	294.9	295
225-100000	60.921	0.942	294.8	294.8
225-110000	60.921	0.975	294.7	294.7
225-120000	69.697	0.980	294.7	294.8
225-130000	69.697	0.979	294.7	294.8
225-140000	69.697	0.976	294.7	294.8
225-150000	69.697	0.972	294.7	294.8
225-160000	52.276	0.970	294.7	294.8
225-170000	34.849	0.969	294.7	294.8

Table CLDt4-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-180000	34.849	0.968	294.6	294.8
225-190000	34.849	0.969	294.6	294.8
225-200000	34.849	0.960	294.6	294.7
229-010000	30.002	0.989	294.6	294.8
230-010000	201.872	0.977	294.6	295.1
232-010000	11.496	0.986	294.5	294.8
235-010000	17.286	0.988	294.5	294.7
240-010000	20.529	0.989	294.5	294.6
245-010000	38.892	0.989	294.5	294.5
250-010000	34.197	0.990	294.5	294.5
255-010000	36.315	0.985	294.4	294.5
260-010000	137.700	0.985	293.7	293.6
265-010000	35.040	0.978	293.1	292.6
270-010000	35.040	0.813	253.4	292.8
275-010000	45.278	0.936	233.9	293.1
280-010000	38.897	0.827	232.1	293.5
10-010000	134.385	0.995	240.6	294.8
12-010000	184.160	0.531	217	295.4
14-010000	366.488	0.000	235.7	296.1
16-010000	414.895	0.000	245.2	299.7
18-010000	120.792	0.000	252	302
20-010000	212.629	0.000	254.7	303
22-010000	315.096	0.000	262.5	301.7
24-010000	45.438	0.000	276.6	300.9
26-010000	48.504	0.000	284.8	300.6
28-010000	48.504	0.000	292.7	300.3
30-010000	35.789	0.014	298.1	300
32-010000	35.789	0.086	299.7	299.8
34-010000	35.789	0.152	299.7	299.6
36-010000	35.789	0.212	299.5	299.4
38-010000	35.789	0.269	299.3	299.3
40-010000	35.789	0.317	299.2	299.1

Table CLDt4-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
42-010000	35.789	0.354	299	299
44-010000	35.789	0.387	298.9	298.8
46-010000	35.789	0.418	298.8	298.7
48-010000	35.789	0.423	298.6	298.6
50-010000	35.789	0.452	298.5	298.4
52-010000	35.789	0.453	298.4	298.3
54-010000	33.109	0.454	298.2	298.2
56-010000	33.109	0.498	298.1	298.1
58-010000	33.109	0.500	298	298
60-010000	33.109	0.468	297.9	297.9
62-010000	33.109	0.501	297.8	297.8
64-010000	33.109	0.534	297.7	297.7
66-010000	33.109	0.505	297.6	297.6
68-010000	33.109	0.535	297.5	297.5
70-010000	33.109	0.512	297.4	297.4
72-010000	21.064	0.510	297.3	297.3
74-010000	21.064	0.528	297.3	297.2
76-010000	21.051	0.476	297.2	297.2
78-010000	86.638	0.470	297	297
80-010000	5.964	0.000	295.5	300.7
80-020000	4.483	0.060	297.3	299.2
80-030000	4.951	0.353	297.6	298.2
80-040000	5.894	0.553	297.1	297
82-010000	28.768	0.000	283.3	300.1
82-020000	21.625	0.000	290.7	298.6
82-030000	23.882	0.353	296.4	297.8
82-040000	28.430	1.000	297	297.2
84-010000	573.893	0.979	296.8	296.8
86-010000	276.840	1.000	296.8	300.4
88-010000	202.853	1.000	296.7	296.9
88-020000	83.659	1.000	296.7	296.9
88-030000	182.966	0.881	296.5	297.1
90-010000	120.233	0.977	296.6	299.8

Table CLDt4-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
92-010000	505.835	1.000	296.7	301.1
94-010000	267.973	1.000	296.7	300.3
400-010000	82.382	1.000	296.8	455.5
408-010000	161.115	1.000	296.8	508.8
410-010000	395.598	1.000	296.8	554.6
410-020000	395.598	1.000	296.8	588.8
410-030000	395.598	1.000	296.8	612.4
410-040000	395.598	1.000	296.8	628.5
410-050000	395.598	1.000	296.8	639.1
410-060000	395.598	1.000	296.8	646.2
412-010000	161.115	1.000	296.7	651.8

Table CLDt4-4: CLPD LOCA Case 30: SG Metal Stored Energy (t= 4000 seconds)

Table CLDt4-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	62.8	527.80
1552-001	sg sep	62.3	494.73
1601-001	sg sep	63.1	548.94
1621-001	sg sep	63.5	577.03
1641-001	sg sep	63.1	549.01
1641-002	sg sep	63.2	560.46
1801-001	1-lp sg sh	60.1	357.87
1801-002	1-lp sg sh	59.6	338.01
1801-003	1-lp sg sh	59.1	316.95
1802-001	1-lp sg sh	62.0	431.10
1803-001	1-lp sg sh	65.1	549.85
1803-002	1-lp sg sh	63.7	494.30
1803-003	1-lp sg sh	64.5	525.45
1803-004	1-lp sg sh	65.4	562.20
1803-005	1-lp sg sh	65.9	579.30
1804-001	1-lp sg sh	65.9	579.71
1806-001	1-lp sg sh	63.8	497.63
1807-001	1-lp sg sh	58.9	295.59
1807-002	1-lp sg sh	58.9	293.84
1808-001	1-lp sg sh	58.9	295.29
1808-002	1-lp sg sh	58.9	295.16
1808-003	1-lp sg sh	58.9	295.04
1808-004	1-lp sg sh	58.9	295.04
1808-005	1-lp sg sh	58.9	294.84
1808-006	1-lp sg sh	58.9	294.63
1808-007	1-lp sg sh	58.9	294.55
1808-008	1-lp sg sh	58.9	294.44
1808-009	1-lp sg sh	59.0	297.78
1808-010	1-lp sg sh	58.9	293.77
1808-011	1-lp sg sh	58.9	293.77
1808-012	1-lp sg sh	58.9	293.77
1808-013	1-lp sg sh	58.9	293.86

Table CLDt4-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	58.9	293.86
1808-015	1-lp sg sh	58.9	293.87
1808-016	1-lp sg sh	58.9	293.98
1808-017	1-lp sg sh	58.9	294.25
1808-018	1-lp sg sh	59.0	298.04
6241-001	DC sleeve	59.1	304.53
6241-002	DC sleeve	59.3	317.56
6241-003	DC sleeve	59.5	330.48
6241-004	DC sleeve	61.1	420.88
6301-001	hot DC	59.0	301.03
6301-002	hot DC	59.0	300.95
6301-003	hot DC	59.0	300.88
6301-004	hot DC	59.0	300.80
6301-005	hot DC	59.2	308.79
6301-006	hot DC	59.2	308.67
6301-007	hot DC	59.2	308.55
6301-008	hot DC	59.3	316.96
6301-009	hot DC	59.3	316.88
6301-010	hot DC	60.0	359.43
6301-011	hot DC	61.6	450.30
6311-001	cold DC	59.0	297.24
6311-002	cold DC	59.0	297.25
6311-003	cold DC	59.0	297.25
6311-004	cold DC	59.0	297.25
6311-005	cold DC	59.0	301.81
6311-006	cold DC	59.0	301.81
6311-007	cold DC	59.0	301.81
6311-008	cold DC	59.1	306.29
6311-009	cold DC	59.1	306.40
6311-010	cold DC	60.2	368.07
6311-011	cold DC	61.7	458.36
1543-001	sg sep	62.9	534.73

Table CLDt4-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	62.4	503.47
1602-001	sg sep	63.1	554.23
1622-001	sg sep	63.5	582.35
1642-001	sg sep	63.1	554.31
1642-002	sg sep	63.3	565.19
1901-001	3-lp sg sh	60.4	368.18
1901-002	3-lp sg sh	59.8	343.21
1901-003	3-lp sg sh	59.1	319.56
1902-001	3-lp sg sh	62.4	442.80
1903-001	3-lp sg sh	65.2	554.78
1903-002	3-lp sg sh	63.9	502.38
1903-003	3-lp sg sh	64.6	531.92
1903-004	3-lp sg sh	65.6	567.51
1903-005	3-lp sg sh	66.0	585.00
1904-001	3-lp sg sh	66.0	585.46
1906-001	3-lp sg sh	64.0	505.81
1907-001	3-lp sg sh	58.9	294.76
1907-002	3-lp sg sh	59.0	302.56
1908-001	3-lp sg sh	58.9	294.45
1908-002	3-lp sg sh	58.9	294.31
1908-003	3-lp sg sh	58.9	294.17
1908-004	3-lp sg sh	58.9	294.18
1908-005	3-lp sg sh	58.9	293.96
1908-006	3-lp sg sh	58.9	293.80
1908-007	3-lp sg sh	58.9	294.59
1908-008	3-lp sg sh	59.0	298.98
1908-009	3-lp sg sh	59.8	346.15
1908-010	3-lp sg sh	59.1	303.80
1908-011	3-lp sg sh	59.1	304.12
1908-012	3-lp sg sh	59.1	304.91
1908-013	3-lp sg sh	59.1	307.00
1908-014	3-lp sg sh	59.1	307.36
1908-015	3-lp sg sh	59.1	306.38

Table CLDt4-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 4000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	58.9	294.66
1908-017	3-lp sg sh	59.0	299.11
1908-018	3-lp sg sh	59.8	346.27
7241-001	3-lp DC sleeve	59.2	310.32
7241-002	3-lp DC sleeve	59.5	325.17
7241-003	3-lp DC sleeve	59.7	340.30
7241-004	3-lp DC sleeve	61.3	435.82
7301-001	3-lp DC	59.0	301.53
7301-002	3-lp DC	59.0	301.40
7301-003	3-lp DC	59.0	301.32
7301-004	3-lp DC	59.0	301.24
7301-005	3-lp DC	59.2	310.59
7301-006	3-lp DC	59.2	310.47
7301-007	3-lp DC	59.2	310.36
7301-008	3-lp DC	59.4	321.62
7301-009	3-lp DC	59.4	322.87
7301-010	3-lp DC	60.5	386.58
7301-011	3-lp DC	61.7	460.44
7311-001	3-lp DC cold	59.1	305.43
7311-002	3-lp DC cold	59.1	305.62
7311-003	3-lp DC cold	59.1	305.77
7311-004	3-lp DC cold	59.1	306.29
7311-005	3-lp DC cold	59.2	312.48
7311-006	3-lp DC cold	59.2	312.66
7311-007	3-lp DC cold	59.2	311.79
7311-008	3-lp DC cold	59.2	311.47
7311-009	3-lp DC cold	59.2	312.78
7311-010	3-lp DC cold	60.7	396.62
7311-011	3-lp DC cold	61.9	469.96

Table CLDt4-5: CLPD LOCA Case 30: SG Wall Film Conditions (t= 4000 seconds)

Table CLDt4-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	528.48	527.14	0.0495981	0.0589064
1552-001	sg sep	640-010000	623-010000	SS-316	495.64	493.83	0.0514143	0.0617674
1601-001	sg sep	642-010000	645-010000	SS-316	549.35	548.55	0.0325403	0.0360415
1621-001	sg sep	660-010000	660-010000	SS-316	576.35	576.35	0.00246399	0.00246399
1641-001	sg sep	645-010000	642-010000	SS-316	548.78	549.22	0.0383565	0.0336148
1641-002	sg sep	650-010000	650-010000	SS-316	560.46	560.46	1.0481	1.0481
1801-001	1-lp sg sh	625-020000	0	SA-508	350.15	361.91	0.0426574	0
1801-002	1-lp sg sh	625-030000	0	SA-508	332.05	341.13	0.0385396	0
1801-003	1-lp sg sh	625-040000	0	SA-508	313.33	318.87	0.0323582	0
1802-001	1-lp sg sh	625-010000	0	SA-508	420.97	436.32	0.0546306	0
1803-001	1-lp sg sh	645-010000	0	SA-508	548.58	550.52	0.0363996	0
1803-002	1-lp sg sh	623-010000	0	SA-508	491.01	496.05	0.0469536	0
1803-003	1-lp sg sh	639-010000	0	SA-508	524.08	526.19	0.0373376	0
1803-004	1-lp sg sh	650-010000	0	SA-508	561.08	562.81	0.0780301	0
1803-005	1-lp sg sh	660-010000	0	SA-508	578.72	579.61	0.00275543	0
1804-001	1-lp sg sh	670-010000	0	SA-508	579.24	579.96	0.00257664	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	496.37	498.79	0.040831	0.0404001
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	295.64	295.64	0.0259414	0.0259414
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	293.86	293.86	0.0224352	0.0224352
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	295.37	295.37	0.0271258	0.0271258
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	295.24	295.24	0.0269631	0.0269631
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	295.12	295.12	0.0267511	0.0267511
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	295.12	295.12	0.026332	0.026332
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	294.91	294.91	0.0259329	0.0259329
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	294.69	294.69	0.0254879	0.0254879
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	294.61	294.61	0.0248355	0.0248355
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	294.49	294.49	0.0239817	0.0239817
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	297.7	297.7	0.0245109	0.0245109
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	293.81	293.81	0.0234132	0.0234132
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	293.81	293.81	0.0234475	0.0234475
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	293.81	293.81	0.0234811	0.0234811

Table CLDt4-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	293.9	293.9	0.0234039	0.0234039
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	293.9	293.9	0.0234787	0.0234787
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	293.91	293.91	0.0235524	0.0235524
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	294.02	294.02	0.0235396	0.0235396
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	294.29	294.29	0.0229388	0.0229388
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	297.97	297.97	0.023681	0.023681
6241-001	DC sleeve	624-040000	625-040000	SS-316	304.05	304.99	0.0231655	0.0224182
6241-002	DC sleeve	624-030000	625-030000	SS-316	316.25	318.82	0.03136	0.0308803
6241-003	DC sleeve	624-020000	625-020000	SS-316	328.06	332.83	0.0378959	0.0380685
6241-004	DC sleeve	624-010000	625-010000	SS-316	422.85	418.82	0.0464854	0.0482254
6301-001	hot DC	630-010000	625-040000	SS-316	299.81	302.28	0.0409352	0.0303884
6301-002	hot DC	630-020000	625-040000	SS-316	299.7	302.22	0.0410755	0.030528
6301-003	hot DC	630-030000	625-040000	SS-316	299.61	302.16	0.0412064	0.0306609
6301-004	hot DC	630-040000	625-040000	SS-316	299.51	302.11	0.0413362	0.0307878
6301-005	hot DC	630-050000	625-030000	SS-316	304.92	312.64	0.0517521	0.0429375
6301-006	hot DC	630-060000	625-030000	SS-316	304.76	312.56	0.0518491	0.0430576
6301-007	hot DC	630-070000	625-030000	SS-316	304.59	312.48	0.0519538	0.0431869
6301-008	hot DC	632-010000	625-020000	SS-316	309.96	323.9	0.0583115	0.0521912
6301-009	hot DC	634-010000	625-020000	SS-316	309.84	323.84	0.0583552	0.0522599
6301-010	hot DC	636-010000	625-010000	SS-316	336.38	382.15	0.0745323	0.0936779
6301-011	hot DC	638-010000	625-010000	SS-316	464.6	435.96	0.0712909	0.0833343
6311-001	cold DC	631-010000	624-040000	SS-316	296.53	297.96	0.0366756	0.025603
6311-002	cold DC	631-020000	624-040000	SS-316	296.53	297.96	0.0366667	0.0255981
6311-003	cold DC	631-030000	624-040000	SS-316	296.53	297.96	0.0366586	0.025595
6311-004	cold DC	631-040000	624-040000	SS-316	296.54	297.96	0.0366491	0.0255904
6311-005	cold DC	631-050000	624-030000	SS-316	299.77	303.83	0.0453887	0.0349477
6311-006	cold DC	631-060000	624-030000	SS-316	299.77	303.83	0.0453817	0.0349444
6311-007	cold DC	631-070000	624-030000	SS-316	299.78	303.83	0.0453736	0.0349396
6311-008	cold DC	633-010000	624-020000	SS-316	302.84	309.72	0.0505258	0.0412779
6311-009	cold DC	635-010000	624-020000	SS-316	302.98	309.8	0.0504316	0.0411559
6311-010	cold DC	637-010000	624-010000	SS-316	341.55	394.15	0.0767747	0.0979801
6311-011	cold DC	638-010000	624-010000	SS-316	469.37	447.28	0.0667671	0.0779596

Table CLDt4-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	535.5	533.97	0.0521815	0.0612907
1553-001	sg sep	740-010000	723-010000	SS-316	504.53	502.43	0.0546863	0.0647321
1602-001	sg sep	742-010000	745-010000	SS-316	554.7	553.78	0.0343802	0.0376364
1622-001	sg sep	760-010000	760-010000	SS-316	581.55	581.55	0.00280392	0.00280392
1642-001	sg sep	745-010000	742-010000	SS-316	554.04	554.56	0.0402209	0.0354827
1642-002	sg sep	750-010000	750-010000	SS-316	565.18	565.18	1.2553	1.2539
1901-001	3-lp sg sh	725-020000	0	SA-508	359.8	372.65	0.0431863	0
1901-002	3-lp sg sh	725-030000	0	SA-508	336.86	346.58	0.0389869	0
1901-003	3-lp sg sh	725-040000	0	SA-508	315.63	321.68	0.0325098	0
1902-001	3-lp sg sh	725-010000	0	SA-508	433.55	447.75	0.0516313	0
1903-001	3-lp sg sh	745-010000	0	SA-508	553.63	555.39	0.0360637	0
1903-002	3-lp sg sh	723-010000	0	SA-508	498.88	504.3	0.0459366	0
1903-003	3-lp sg sh	739-010000	0	SA-508	530.52	532.68	0.0370541	0
1903-004	3-lp sg sh	750-010000	0	SA-508	565.96	568.25	0.12092	0
1903-005	3-lp sg sh	760-010000	0	SA-508	584.28	585.37	0.00311064	0
1904-001	3-lp sg sh	770-010000	0	SA-508	584.87	585.76	0.00293765	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	504	507.44	0.0455177	0.0453645
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	294.81	294.81	0.0259762	0.0259762
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	302.11	302.11	0.0415546	0.0415546
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	294.52	294.52	0.0259897	0.0259897
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	294.37	294.37	0.0259241	0.0259241
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	294.24	294.24	0.0258263	0.0258263
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	294.24	294.24	0.0256644	0.0256644
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	294.02	294.02	0.0255222	0.0255222
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	293.85	293.85	0.0247946	0.0247946
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	294.59	294.59	0.00944588	0.00944588
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	298.61	298.61	0.0359733	0.0359733
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	345.13	345.13	0.0450753	0.0450753
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	303.05	303.05	0.0439255	0.0439255
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	303.34	303.34	0.0441797	0.0441797
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	304.22	304.22	0.0438029	0.0438029

Table CLDt4-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 4000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	306.42	306.42	0.0436736	0.0436736
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	306.78	306.78	0.0432095	0.0432095
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	305.57	305.57	0.0448062	0.0448062
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	294.62	294.62	0.0217798	0.0217798
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	298.64	298.64	0.0368082	0.0368082
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	345.38	345.38	0.0443541	0.0443541
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	310.32	310.28	0.0148527	0.0162383
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	324.49	325.76	0.0271782	0.0245667
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	337.86	342.66	0.0388313	0.0388995
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	438	433.46	0.0474252	0.0513318
7301-001	3-lp DC	730-010000	725-040000	SS-316	299.89	303.23	0.0432364	0.0335485
7301-002	3-lp DC	730-020000	725-040000	SS-316	299.71	303.14	0.0434973	0.033737
7301-003	3-lp DC	730-030000	725-040000	SS-316	299.61	303.08	0.0435995	0.0338577
7301-004	3-lp DC	730-040000	725-040000	SS-316	299.51	303.02	0.0436956	0.0339725
7301-005	3-lp DC	730-050000	725-030000	SS-316	305.75	315.43	0.0539786	0.0463407
7301-006	3-lp DC	730-060000	725-030000	SS-316	305.59	315.35	0.0540497	0.0464521
7301-007	3-lp DC	730-070000	725-030000	SS-316	305.44	315.28	0.0541282	0.046551
7301-008	3-lp DC	732-010000	725-020000	SS-316	312.66	330.56	0.0611589	0.0572093
7301-009	3-lp DC	734-010000	725-020000	SS-316	314.23	331.38	0.0610782	0.0562333
7301-010	3-lp DC	736-010000	725-010000	SS-316	370.04	402.84	0.0734008	0.0868419
7301-011	3-lp DC	738-010000	725-010000	SS-316	473.04	447.76	0.0693958	0.0818112
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	303.89	306.55	0.0457835	0.0258667
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	304.04	306.73	0.0460899	0.0253127
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	304.21	306.85	0.0460629	0.0249134
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	304.91	307.23	0.0453568	0.0236262
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	309.88	314.63	0.0503791	0.0341987
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	310.14	314.74	0.0499394	0.0339551
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	308.94	314.16	0.0509624	0.0351938
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	306.25	316.56	0.0550944	0.0466128
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	307.85	317.47	0.0548446	0.0452789
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	376.36	416.2	0.0768757	0.0915366
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	478.94	460.58	0.0632111	0.076699

Table CLDt4-6: CLPD LOCA Case 30: SG Fluid Conditions (t= 4000 seconds)

Table CLDt4-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	518.46	561.05
623-010000	366.645	0.000	488.15	561.05
624-010000	155.893	0.000	428.11	561.31
624-020000	43.006	0.000	319.87	561.70
624-030000	59.135	0.000	310.88	562.19
624-040000	43.006	0.000	301.38	562.68
625-010000	180.020	0.000	412.96	561.32
625-020000	73.345	0.000	340.26	561.71
625-030000	100.851	0.000	323.65	562.20
625-040000	73.345	0.000	307.37	562.68
630-010000	70.116	0.000	296.22	562.84
630-020000	70.116	0.000	296.07	562.74
630-030000	70.116	0.000	295.92	562.63
630-040000	70.116	0.000	295.77	562.53
630-050000	105.180	0.000	295.73	562.40
630-060000	140.232	0.000	295.49	562.21
630-070000	140.232	0.000	295.23	562.01
631-010000	70.116	0.000	294.19	562.84
631-020000	70.116	0.000	294.19	562.74
631-030000	70.116	0.000	294.20	562.63
631-040000	70.116	0.000	294.20	562.53
631-050000	105.180	0.000	294.29	562.40
631-060000	140.232	0.000	294.29	562.21
631-070000	140.232	0.000	294.30	562.01
632-010000	140.232	0.000	295.09	561.80
633-010000	140.232	0.000	294.42	561.80
634-010000	140.232	0.000	294.91	561.59
635-010000	140.232	0.000	294.64	561.59
636-010000	86.672	0.000	297.24	561.42
637-010000	86.672	0.000	297.58	561.42
638-010000	609.522	0.000	491.35	561.23
639-010000	635.282	0.000	522.64	560.91

Table CLDt4-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.000	502.58	561.04
641-010000	117.514	0.000	533.94	560.90
642-010000	320.019	0.000	550.88	560.71
645-010000	1075.296	0.000	547.18	560.72
650-010000	830.204	0.432	558.16	560.51
660-010000	703.676	1.000	560.49	570.39
670-010000	400.000	1.000	560.48	572.17
720-010000	1099.935	0.000	529.12	565.72
723-010000	1099.935	0.000	496.26	565.72
724-010000	467.679	0.000	443.22	565.97
724-020000	129.019	0.000	329.60	566.35
724-030000	177.404	0.000	320.94	566.82
724-040000	129.019	0.000	309.90	567.30
725-010000	540.019	0.000	426.97	565.98
725-020000	220.035	0.000	350.12	566.35
725-030000	302.553	0.000	328.42	566.82
725-040000	220.035	0.000	309.67	567.30
730-010000	210.349	0.000	295.40	567.45
730-020000	210.349	0.000	295.10	567.35
730-030000	210.349	0.000	294.95	567.25
730-040000	210.349	0.000	294.81	567.15
730-050000	315.541	0.000	294.80	567.02
730-060000	420.697	0.000	294.56	566.84
730-070000	420.697	0.000	294.34	566.64
731-010000	210.349	0.000	298.34	567.45
731-020000	210.349	0.000	298.35	567.35
731-030000	210.349	0.000	298.54	567.24
731-040000	210.349	0.000	299.62	567.14
731-050000	315.541	0.000	301.92	567.02
731-060000	420.697	0.000	302.49	566.84
731-070000	420.697	0.000	300.55	566.64
732-010000	420.697	0.000	294.60	566.44

Table CLDt4-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 4000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
733-010000	420.697	0.000	294.33	566.44
734-010000	420.697	0.000	296.47	566.23
735-010000	420.697	0.000	296.29	566.23
736-010000	260.017	0.000	341.01	566.07
737-010000	260.017	0.000	341.51	566.07
738-010000	1828.567	0.000	497.18	565.89
739-010000	1905.846	0.000	529.15	565.58
740-010000	375.926	0.000	512.33	565.71
741-010000	352.543	0.000	541.46	565.57
742-010000	960.056	0.000	556.39	565.38
745-010000	3225.888	0.000	552.29	565.40
750-010000	2490.612	0.376	563.68	565.19
760-010000	2111.028	1.000	565.17	574.08
770-010000	1200.000	1.000	565.16	575.92

Table CLDt5-1: CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

Table CLDt5-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1001-001	3-lp HL	58.9	296.71
1001-002	3-lp HL	58.9	296.73
1001-003	3-lp HL	58.9	296.87
1001-004	3-lp HL	58.9	296.24
1081-001	1-lp sg ch	59.2	308.51
1081-002	1-lp sg ch	62.4	502.37
1082-001	3-lp sg ch	59.1	307.05
1082-002	3-lp sg ch	62.6	519.02
1091-001	1-lp sg ch	59.0	295.63
1091-002	1-lp sg ch	59.0	293.9
1092-001	3-lp sg ch	59.0	294.57
1092-002	3-lp sg ch	58.9	293.04
1251-001	3-lp SG tube	59.0	294.32
1251-002	3-lp SG tube	59.0	294.17
1251-003	3-lp SG tube	59.0	294.02
1251-004	3-lp SG tube	59.0	293.86
1251-005	3-lp SG tube	59.0	293.68
1251-006	3-lp SG tube	59.0	293.42
1251-007	3-lp SG tube	58.9	293.11
1251-008	3-lp SG tube	58.9	292.93
1251-009	3-lp SG tube	59.0	294.34
1251-010	3-lp SG tube	59.2	305.94
1251-011	3-lp SG tube	59.2	305.86
1251-012	3-lp SG tube	59.0	294.57
1251-013	3-lp SG tube	59.0	293.9
1251-014	3-lp SG tube	59.0	293.57
1251-015	3-lp SG tube	59.0	293.48
1251-016	3-lp SG tube	59.0	293.45
1251-017	3-lp SG tube	59.0	293.34
1251-018	3-lp SG tube	59.0	293.33
1251-019	3-lp SG tube	59.0	293.34
1251-020	3-lp SG tube	59.0	293.29

Table CLDt5-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1401-001	3-lp CL	59.8	343.2
1401-002	3-lp CL	59.2	312.14
1401-003	3-lp CL	58.9	295.55
1401-004	3-lp CL	58.9	291.91
1401-005	3-lp CL	58.8	291.53
1401-006	3-lp CL	58.8	288.87
1701-001	3-lp CLd	58.8	286.96
1701-002	3-lp CLd	58.7	283.57
1701-003	3-lp CLd	58.4	269.58
1701-004	3-lp CLd	58.6	276.21
1905-001	3-lp sg sh	59.0	295.29
1805-001	1-lp sg sh	59.0	295.11
2001-001	1-lp HL	58.9	296.55
2001-002	1-lp HL	58.9	296.52
2001-003	1-lp HL	58.9	296.69
2001-004	1-lp HL	58.9	296.32
2251-001	sngl tube	59.0	295.63
2251-002	sngl tube	59.0	295.45
2251-003	sngl tube	59.0	295.26
2251-004	sngl tube	59.0	295.03
2251-005	sngl tube	59.0	294.8
2251-006	sngl tube	59.0	294.55
2251-007	sngl tube	59.0	294.39
2251-008	sngl tube	59.0	294.24
2251-009	sngl tube	59.0	294.09
2251-010	sngl tube	59.0	294.14
2251-011	sngl tube	59.0	294.11
2251-012	sngl tube	59.0	293.91
2251-013	sngl tube	59.0	293.91
2251-014	sngl tube	59.0	293.91
2251-015	sngl tube	59.0	293.91
2251-016	sngl tube	59.0	293.91

Table CLDt5-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
2251-017	sngl tube	59.0	293.91
2251-018	sngl tube	59.0	293.9
2251-019	sngl tube	59.0	293.9
2251-020	sngl tube	59.0	293.9
2401-001	1-lp CL suc	58.9	293.95
2401-002	1-lp CL suc	58.9	293.94
2401-003	1-lp CL suc	58.9	293.91
2401-004	1-lp CL suc	58.9	293.84
2401-005	1-lp CL suc	58.9	293.86
2401-006	1-lp CL suc	58.9	293.3
2701-001	1-lp CL dis	58.9	292.85
2701-002	1-lp CL dis	58.9	292.48
2701-003	1-lp CL dis	58.7	285.78
2701-004	1-lp CL dis	57.9	241.93
101-001	RPV head	63.2	541.82
101-002	RPV head	62.8	461.86
102-001	RPV head flange	63.0	528.44
103-001	RPV nozzle	61.1	396.26
103-002	RPV nozzle	60.5	352.51
104-001	RPV int shell	59.5	281.21
104-002	RPV int shell	59.2	265.51
104-003	RPV int shell	59.3	272.53
105-001	RPV lower shell	59.2	263.9
105-002	RPV lower shell	59.3	268.85
106-001	RPV lower hd	59.0	246.75
106-002	RPV lower hd	57.4	253.52
201-001	core barrel	58.3	262.43
201-002	core barrel	58.2	256.51
201-003	core barrel	58.3	261.54
201-004	core barrel	58.3	261.47
201-005	core barrel	58.4	265.83
201-006	core barrel	58.4	265.03

Table CLDt5-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
202-001	low sup plate	58.0	243.06
203-001	fl dis dvce	57.8	233.18
204-001	HR	58.6	279.88
204-002	HR	58.7	281.46
204-003	HR	58.7	284.03
204-004	HR	58.8	286.58
204-005	HR	58.8	289.56
204-006	HR	58.9	292.89
204-007	HR	58.9	297.08
204-008	HR	59.0	298.46
204-009	HR	59.0	298.59
204-010	HR	59.0	298.53
204-011	HR	59.0	298.46
204-012	HR	59.0	298.38
204-013	HR	59.0	298.31
204-014	HR	59.0	298.61
204-015	HR	59.0	298.54
204-016	HR	59.0	298.47
204-017	HR	59.0	298.41
204-018	HR	59.0	298.34
204-019	HR	59.0	298.28
204-020	HR	59.0	298.01
204-021	HR	59.0	297.95
204-022	HR	59.0	297.89
204-023	HR	59.0	297.84
204-024	HR	59.0	297.78
204-025	HR	59.0	297.73
204-026	HR	59.0	297.7
204-027	HR	59.0	297.66
204-028	HR	59.0	297.56
205-001	UPR core plt	58.9	297.01
206-001	LMP	58.9	297
206-002	LMP	58.9	296.66

Table CLDt5-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
207-001	UPR sup plt	61.9	470.38
208-001	CRGA	58.9	297
208-002	CRGA	58.9	296.67
208-003	CRGA	59.3	315.36
4001-001	pzr srg	63.1	470.87
4101-001	pzr srg	67.2	632.94
4101-002	pzr srg	67.5	642.48
4101-003	pzr srg	67.6	646.99
4101-004	pzr srg	67.7	650.44
4101-005	pzr srg	67.7	651.96
4101-006	pzr srg	67.7	652.49
4201-001	prz hd	66.9	619.43
4301-001	prz upr hd	67.7	654.16
R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-001	FUEL ASS	41.6	252.03
301-002	FUEL ASS	41.8	267.13
301-003	FUEL ASS	42	280.42
301-004	FUEL ASS	42.2	292.39
301-005	FUEL ASS	42.3	304.23
301-006	FUEL ASS	42.5	314
301-007	FUEL ASS	42.5	318.74
301-008	FUEL ASS	42.6	321.63
301-009	FUEL ASS	42.6	322.92
301-010	FUEL ASS	42.6	323.69
301-011	FUEL ASS	42.6	324.16
301-012	FUEL ASS	42.6	324.38
301-013	FUEL ASS	42.6	324.36
301-014	FUEL ASS	42.6	324.09
301-015	FUEL ASS	42.6	323.64
301-016	FUEL ASS	42.6	322.93

Table CLDt5-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-017	FUEL ASS	42.6	322.01
301-018	FUEL ASS	42.6	320.96
301-019	FUEL ASS	42.5	319.55
301-020	FUEL ASS	42.5	318.08
301-021	FUEL ASS	42.5	316.4
301-022	FUEL ASS	42.5	314.44
301-023	FUEL ASS	42.4	312.45
301-024	FUEL ASS	42.4	309.81
301-025	FUEL ASS	42.4	307.42
301-026	FUEL ASS	42.3	305.58
301-027	FUEL ASS	42.3	303.73
301-028	FUEL ASS	42.2	297.4
301-001	**Fuel Cladding**	**29.4**	**252.03**
301-002	**Fuel Cladding**	**29.5**	**267.13**
301-003	**Fuel Cladding**	**29.5**	**280.42**
301-004	**Fuel Cladding**	**29.6**	**292.39**
301-005	**Fuel Cladding**	**29.6**	**304.23**
301-006	**Fuel Cladding**	**29.7**	**314**
301-007	**Fuel Cladding**	**29.7**	**318.74**
301-008	**Fuel Cladding**	**29.7**	**321.63**
301-009	**Fuel Cladding**	**29.7**	**322.92**
301-010	**Fuel Cladding**	**29.7**	**323.69**
301-011	**Fuel Cladding**	**29.7**	**324.16**
301-012	**Fuel Cladding**	**29.7**	**324.38**
301-013	**Fuel Cladding**	**29.7**	**324.36**
301-014	**Fuel Cladding**	**29.7**	**324.09**
301-015	**Fuel Cladding**	**29.7**	**323.64**
301-016	**Fuel Cladding**	**29.7**	**322.93**
301-017	**Fuel Cladding**	**29.7**	**322.01**
301-018	**Fuel Cladding**	**29.7**	**320.96**
301-019	**Fuel Cladding**	**29.7**	**319.55**
301-020	**Fuel Cladding**	**29.7**	**318.08**
301-021	**Fuel Cladding**	**29.7**	**316.4**

Table CLDt5-1 - CLPD LOCA Case 30: RCS Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
301-022	**Fuel Cladding**	**29.7**	**314.44**
301-023	**Fuel Cladding**	**29.7**	**312.45**
301-024	**Fuel Cladding**	**29.7**	**309.81**
301-025	**Fuel Cladding**	**29.7**	**307.42**
301-026	**Fuel Cladding**	**29.6**	**305.58**
301-027	**Fuel Cladding**	**29.6**	**303.73**
301-028	**Fuel Cladding**	**29.6**	**297.4**

Table CLDt5-2: CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

Table CLDt5-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1001-001	3-lp HL	100-010000	0	SS-316	296.59	296.77	0.05205	0
1001-002	3-lp HL	105-010000	0	SS-316	296.59	296.8	0.04609	0
1001-003	3-lp HL	110-010000	0	SS-316	296.62	297	0.04604	0
1001-004	3-lp HL	115-010000	0	SS-316	296.29	296.22	0.06185	0
1081-001	1-lp sg ch	220-010000	0	SS-316	297.83	314.32	0.05300	0
1081-002	1-lp sg ch	230-010000	0	SS-316	488.45	509.17	0.00116	0
1082-001	3-lp sg ch	120-010000	0	SS-316	296.84	312.55	0.07927	0
1082-002	3-lp sg ch	130-010000	0	SS-316	510.49	523.29	0.00066	0
1091-001	1-lp sg ch	221-010000	0	alloy690	295.68	295.61	0.18319	0
1091-002	1-lp sg ch	229-010000	0	alloy690	293.88	293.89	0.21516	0
1092-001	3-lp sg ch	121-010000	0	alloy690	294.53	294.58	0.09443	0
1092-002	3-lp sg ch	129-010000	0	alloy690	293.04	293.04	0.00122	0
1251-001	3-lp SG tube	125-010000	730-010000	alloy690	294.31	294.33	0.10028	0.02585
1251-002	3-lp SG tube	125-020000	730-020000	alloy690	294.17	294.18	0.10736	0.02528
1251-003	3-lp SG tube	125-030000	730-030000	alloy690	294.01	294.02	0.09867	0.02511
1251-004	3-lp SG tube	125-040000	730-040000	alloy690	293.86	293.87	0.10786	0.02497
1251-005	3-lp SG tube	125-050000	730-050000	alloy690	293.68	293.69	0.09572	0.02621
1251-006	3-lp SG tube	125-060000	730-060000	alloy690	293.41	293.42	0.08944	0.02639
1251-007	3-lp SG tube	125-070000	730-070000	alloy690	293.1	293.12	0.10318	0.02671
1251-008	3-lp SG tube	125-080000	732-010000	alloy690	292.92	292.93	0.08564	0.03004
1251-009	3-lp SG tube	125-090000	734-010000	alloy690	294.34	294.34	0.00124	0.02462
1251-010	3-lp SG tube	125-100000	736-010000	alloy690	305.94	305.95	0.00120	0.03142
1251-011	3-lp SG tube	125-110000	737-010000	alloy690	305.86	305.87	0.00121	0.02966
1251-012	3-lp SG tube	125-120000	735-010000	alloy690	294.57	294.57	0.00122	0.02506
1251-013	3-lp SG tube	125-130000	733-010000	alloy690	293.9	293.89	0.00122	0.02122
1251-014	3-lp SG tube	125-140000	731-070000	alloy690	293.57	293.57	0.00122	0.01938
1251-015	3-lp SG tube	125-150000	731-060000	alloy690	293.48	293.48	0.00122	0.01938
1251-016	3-lp SG tube	125-160000	731-050000	alloy690	293.45	293.45	0.00122	0.01938
1251-017	3-lp SG tube	125-170000	731-040000	alloy690	293.34	293.34	0.00122	0.01938
1251-018	3-lp SG tube	125-180000	731-030000	alloy690	293.33	293.33	0.00122	0.01938
1251-019	3-lp SG tube	125-190000	731-020000	alloy690	293.34	293.34	0.00122	0.01938

Table CLDt5-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1251-020	3-lp SG tube	125-200000	731-010000	alloy690	293.29	293.29	0.00122	0.01938
1401-001	3-lp CL	135-010000	0	SS-316	341.1	344.3	0.00129	0
1401-002	3-lp CL	140-010000	0	SS-316	311.41	312.54	0.00129	0
1401-003	3-lp CL	145-010000	0	SS-316	295.51	295.61	0.00129	0
1401-004	3-lp CL	150-010000	0	SS-316	292.82	291.4	0.00129	0
1401-005	3-lp CL	155-010000	0	SS-316	292.82	290.81	0.00129	0
1401-006	3-lp CL	160-010000	0	SS-316	292.58	286.84	0.40420	0
1701-001	3-lp CLd	165-010000	0	SS-316	291.52	284.39	0.20297	0
1701-002	3-lp CLd	170-010000	0	SS-316	288.53	280.57	0.14972	0
1701-003	3-lp CLd	175-010000	0	SS-316	278.56	264.72	0.09162	0
1701-004	3-lp CLd	180-010000	0	SS-316	286.09	270.95	0.11180	0
1905-001	3-lp sg sh	120-010000	130-010000	alloy690	295.26	295.29	0.02935	0.00019
1805-001	1-lp sg sh	220-010000	230-010000	alloy690	296.03	294.21	0.03389	0.04441
2001-001	1-lp HL	200-010000	0	SS-316	296.56	296.55	0.19663	0
2001-002	1-lp HL	205-010000	0	SS-316	296.48	296.53	0.42575	0
2001-003	1-lp HL	210-010000	0	SS-316	296.48	296.8	0.46881	0
2001-004	1-lp HL	215-010000	0	SS-316	296.32	296.31	0.74534	0
2251-001	sngl tube	225-010000	630-010000	alloy690	295.61	295.63	0.17248	0.02505
2251-002	sngl tube	225-020000	630-020000	alloy690	295.45	295.46	0.18351	0.02239
2251-003	sngl tube	225-030000	630-030000	alloy690	295.26	295.25	0.26090	0.01938
2251-004	sngl tube	225-040000	630-040000	alloy690	295.04	295.02	1.93880	0.02396
2251-005	sngl tube	225-050000	630-050000	alloy690	294.82	294.79	1.49970	0.02889
2251-006	sngl tube	225-060000	630-060000	alloy690	294.54	294.56	0.27934	0.02955
2251-007	sngl tube	225-070000	630-070000	alloy690	294.36	294.41	0.21384	0.02723
2251-008	sngl tube	225-080000	632-010000	alloy690	294.22	294.25	0.18158	0.02480
2251-009	sngl tube	225-090000	634-010000	alloy690	294.07	294.1	0.17899	0.02425
2251-010	sngl tube	225-100000	636-010000	alloy690	294.1	294.17	0.14188	0.03960
2251-011	sngl tube	225-110000	637-010000	alloy690	294.06	294.15	0.22103	0.04269
2251-012	sngl tube	225-120000	635-010000	alloy690	293.89	293.92	0.25003	0.02161
2251-013	sngl tube	225-130000	633-010000	alloy690	293.89	293.92	0.25251	0.01938
2251-014	sngl tube	225-140000	631-070000	alloy690	293.89	293.91	0.24443	0.01938

Table CLDt5-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
2251-015	sngl tube	225-150000	631-060000	alloy690	293.89	293.91	0.24023	0.01938
2251-016	sngl tube	225-160000	631-050000	alloy690	293.89	293.91	0.24115	0.01938
2251-017	sngl tube	225-170000	631-040000	alloy690	293.89	293.91	0.24279	0.01992
2251-018	sngl tube	225-180000	631-030000	alloy690	293.89	293.91	0.24460	0.01989
2251-019	sngl tube	225-190000	631-020000	alloy690	293.89	293.91	0.24591	0.01986
2251-020	sngl tube	225-200000	631-010000	alloy690	293.89	293.91	0.25040	0.01987
2401-001	1-lp CL suc	235-010000	0	SS-316	293.87	294	0.25627	0
2401-002	1-lp CL suc	240-010000	0	SS-316	293.86	293.99	0.25529	0
2401-003	1-lp CL suc	245-010000	0	SS-316	293.84	293.95	0.26045	0
2401-004	1-lp CL suc	250-010000	0	SS-316	293.79	293.88	0.25936	0
2401-005	1-lp CL suc	255-010000	0	SS-316	293.82	293.9	0.26975	0
2401-006	1-lp CL suc	260-010000	0	SS-316	293.26	293.33	0.26418	0
2701-001	1-lp CL dis	265-010000	0	SS-316	292.92	292.81	0.26981	0
2701-002	1-lp CL dis	270-010000	0	SS-316	292.79	292.34	0.26161	0
2701-003	1-lp CL dis	275-010000	0	SS-316	283.89	286.79	0.11995	0
2701-004	1-lp CL dis	280-010000	0	SS-316	214.91	255.16	0.04120	0
101-001	RPV head	94-010000	0	alloy600	534.32	545.82	0.00062	0
101-002	RPV head	90-010000	0	SA-508	451.78	467.48	0.00096	0
102-001	RPV head flange	90-010000	0	alloy600	489.36	549.44	0.00100	0
103-001	RPV nozzle	10-010000	0	alloy600	243.24	460.72	0.05677	0
103-002	RPV nozzle	12-010000	0	alloy600	224.74	405.92	0.05429	0
104-001	RPV int shell	12-010000	0	alloy600	217.07	306.36	0.04976	0
104-002	RPV int shell	14-010000	0	alloy600	221.55	281.43	0.04973	0
104-003	RPV int shell	16-010000	0	alloy600	231.85	287.59	0.05076	0
105-001	RPV lower shell	16-010000	0	alloy600	230.25	275.69	0.04930	0
105-002	RPV lower shell	18-010000	0	alloy600	235.02	280.94	0.05012	0
106-001	RPV lower hd	18-010000	0	alloy600	230.49	252.5	0.04553	0
106-002	RPV lower hd	20-010000	0	SA-508	238.12	259.29	0.03869	0
201-001	core barrel	10-010000	86-010000	SS-316	223.41	295.61	0.04401	0.75305
201-002	core barrel	12-010000	84-010000	SS-316	211.02	294.72	0.04568	0.34853
201-003	core barrel	14-010000	80-040000	SS-316	219.62	296.03	0.04813	0.42368

Table CLDt5-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
201-004	core barrel	14-010000	80-030000	SS-316	219.62	295.73	0.04813	0.3198
201-005	core barrel	16-010000	80-020000	SS-316	229.32	295.01	0.04843	0.26899
201-006	core barrel	16-010000	80-010000	SS-316	229.13	293.59	0.04825	0.25736
202-001	low sup plate	22-010000	0	SS-316	239.46	244.62	0.03259	0
203-001	fl dis dvce	22-010000	0	SS-316	232.87	233.37	0.02237	0
204-001	HR	24-010000	80-010000	SS-316	259.35	294.78	0.06225	0.25736
204-002	HR	26-010000	80-010000	SS-316	263.11	294.88	0.06154	0.25736
204-003	HR	28-010000	80-010000	SS-316	268.54	295.04	0.06030	0.25736
204-004	HR	30-010000	80-010000	SS-316	273.75	295.2	0.05951	0.25736
204-005	HR	32-010000	80-010000	SS-316	279.92	295.38	0.05844	0.25736
204-006	HR	34-010000	80-010000	SS-316	286.85	295.59	0.05692	0.25736
204-007	HR	36-010000	80-020000	SS-316	294.87	297.11	0.05560	0.26899
204-008	HR	38-010000	80-020000	SS-316	299.19	297.17	0.03826	0.26899
204-009	HR	40-010000	80-020000	SS-316	299.82	297.17	0.24727	0.26899
204-010	HR	42-010000	80-020000	SS-316	299.69	297.17	0.81845	0.26899
204-011	HR	44-010000	80-020000	SS-316	299.54	297.16	0.05572	0.26899
204-012	HR	46-010000	80-020000	SS-316	299.39	297.16	0.06388	0.26899
204-013	HR	48-010000	80-020000	SS-316	299.24	297.15	0.06989	0.26899
204-014	HR	50-010000	80-030000	SS-316	299.13	297.89	0.07058	0.33739
204-015	HR	52-010000	80-030000	SS-316	298.99	297.88	0.07625	0.33733
204-016	HR	54-010000	80-030000	SS-316	298.85	297.88	0.07722	0.33727
204-017	HR	56-010000	80-030000	SS-316	298.72	297.88	0.08902	0.33721
204-018	HR	58-010000	80-030000	SS-316	298.6	297.87	0.05726	0.33715
204-019	HR	60-010000	80-030000	SS-316	298.48	297.87	0.12495	0.3371
204-020	HR	62-010000	80-040000	SS-316	298.34	297.63	0.09844	0.69592
204-021	HR	64-010000	80-040000	SS-316	298.22	297.63	0.11413	0.69494
204-022	HR	66-010000	80-040000	SS-316	298.1	297.63	0.17025	0.69241
204-023	HR	68-010000	80-040000	SS-316	297.99	297.63	0.13565	0.69153
204-024	HR	70-010000	80-040000	SS-316	297.87	297.63	1.74060	0.68995
204-025	HR	72-010000	80-040000	SS-316	297.78	297.63	0.15653	0.68891
204-026	HR	74-010000	80-040000	SS-316	297.72	297.63	0.16767	0.68912
204-027	HR	76-010000	80-040000	SS-316	297.64	297.63	0.12726	0.68844

Table CLDt5-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
204-028	HR	78-010000	80-040000	SS-316	297.43	297.62	0.98827	0.68448
205-001	UPR core plt	84-010000	0	SS-316	297	297.01	0.03622	0
206-001	LMP	84-010000	0	SS-316	296.99	297.01	0.03596	0
206-002	LMP	86-010000	0	SS-316	296.66	296.67	0.00384	0
207-001	UPR sup plt	86-010000	92-010000	SS-316	465.73	469.45	0.00064	0.00054
208-001	CRGA	84-010000	0	SS-316	296.99	297	0.03596	0
208-002	CRGA	86-010000	0	SS-316	296.66	296.67	0.00392	0
208-003	CRGA	92-010000	0	SS-316	315.38	315.34	0.00032	0
4001-001	pzr srg	400-010000	0	SA-508	470.46	471.06	0.00117	0
4101-001	pzr srg	410-010000	0	SA-508	631.3	633.85	0.00039	0
4101-002	pzr srg	410-020000	0	SA-508	641.54	643	0.00033	0
4101-003	pzr srg	410-030000	0	SA-508	646.47	647.28	0.00028	0
4101-004	pzr srg	410-040000	0	SA-508	650.15	650.61	0.00024	0
4101-005	pzr srg	410-050000	0	SA-508	651.81	652.05	0.00020	0
4101-006	pzr srg	410-060000	0	SA-508	652.42	652.53	0.00017	0
4201-001	prz hd	408-010000	0	SA-508	616.92	620.75	0.00047	0
4301-001	prz upr hd	412-010000	0	SA-508	654.13	654.17	0.00014	0
				Surface Temp	Surface Temp	HTC	HTC	
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-001	FUEL ASS	0	24-010000	Fuel				
301-002	FUEL ASS	0	26-010000	Fuel				
301-003	FUEL ASS	0	28-010000	Fuel				
301-004	FUEL ASS	0	30-010000	Fuel				
301-005	FUEL ASS	0	32-010000	Fuel				
301-006	FUEL ASS	0	34-010000	Fuel				
301-007	FUEL ASS	0	36-010000	Fuel				
301-008	FUEL ASS	0	38-010000	Fuel				
301-009	FUEL ASS	0	40-010000	Fuel				
301-010	FUEL ASS	0	42-010000	Fuel				
301-011	FUEL ASS	0	44-010000	Fuel				

Table CLDt5-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-012	FUEL ASS	0	46-010000	Fuel				
301-013	FUEL ASS	0	48-010000	Fuel				
301-014	FUEL ASS	0	50-010000	Fuel				
301-015	FUEL ASS	0	52-010000	Fuel				
301-016	FUEL ASS	0	54-010000	Fuel				
301-017	FUEL ASS	0	56-010000	Fuel				
301-018	FUEL ASS	0	58-010000	Fuel				
301-019	FUEL ASS	0	60-010000	Fuel				
301-020	FUEL ASS	0	62-010000	Fuel				
301-021	FUEL ASS	0	64-010000	Fuel				
301-022	FUEL ASS	0	66-010000	Fuel				
301-023	FUEL ASS	0	68-010000	Fuel				
301-024	FUEL ASS	0	70-010000	Fuel				
301-025	FUEL ASS	0	72-010000	Fuel				
301-026	FUEL ASS	0	74-010000	Fuel				
301-027	FUEL ASS	0	76-010000	Fuel				
301-028	FUEL ASS	0	78-010000	Fuel				
301-001	**Fuel Cladding**	**0**	**24-010000**	**cladding**		**251.53**		**0.03188**
301-002	**Fuel Cladding**	**0**	**26-010000**	**cladding**		**262.67**		**0.03221**
301-003	**Fuel Cladding**	**0**	**28-010000**	**cladding**		**274.42**		**0.03259**
301-004	**Fuel Cladding**	**0**	**30-010000**	**cladding**		**284.88**		**0.03295**
301-005	**Fuel Cladding**	**0**	**32-010000**	**cladding**		**295.46**		**0.03336**
301-006	**Fuel Cladding**	**0**	**34-010000**	**cladding**		**304.32**		**0.03544**
301-007	**Fuel Cladding**	**0**	**36-010000**	**cladding**		**308.18**		**0.04748**
301-008	**Fuel Cladding**	**0**	**38-010000**	**cladding**		**310.46**		**0.06913**
301-009	**Fuel Cladding**	**0**	**40-010000**	**cladding**		**311.08**		**0.07992**
301-010	**Fuel Cladding**	**0**	**42-010000**	**cladding**		**311.24**		**0.08235**
301-011	**Fuel Cladding**	**0**	**44-010000**	**cladding**		**311.29**		**0.08232**
301-012	**Fuel Cladding**	**0**	**46-010000**	**cladding**		**311.27**		**0.08116**
301-013	**Fuel Cladding**	**0**	**48-010000**	**cladding**		**311.21**		**0.07852**
301-014	**Fuel Cladding**	**0**	**50-010000**	**cladding**		**311.08**		**0.07784**
301-015	**Fuel Cladding**	**0**	**52-010000**	**cladding**		**310.94**		**0.07730**

Table CLDt5-2 – CLPD LOCA Case 30: RCS Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

					Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
301-016	**Fuel Cladding**	**0**	**54-010000**	**cladding**		**310.67**		**0.07554**
301-017	**Fuel Cladding**	**0**	**56-010000**	**cladding**		**310.17**		**0.07234**
301-018	**Fuel Cladding**	**0**	**58-010000**	**cladding**		**309.89**		**0.06967**
301-019	**Fuel Cladding**	**0**	**60-010000**	**cladding**		**309.04**		**0.07948**
301-020	**Fuel Cladding**	**0**	**62-010000**	**cladding**		**308.4**		**0.05927**
301-021	**Fuel Cladding**	**0**	**64-010000**	**cladding**		**307.56**		**0.05614**
301-022	**Fuel Cladding**	**0**	**66-010000**	**cladding**		**306.36**		**0.10622**
301-023	**Fuel Cladding**	**0**	**68-010000**	**cladding**		**306**		**0.06690**
301-024	**Fuel Cladding**	**0**	**70-010000**	**cladding**		**304.66**		**0.03811**
301-025	**Fuel Cladding**	**0**	**72-010000**	**cladding**		**302.88**		**0.06711**
301-026	**Fuel Cladding**	**0**	**74-010000**	**cladding**		**301.72**		**0.07392**
301-027	**Fuel Cladding**	**0**	**76-010000**	**cladding**		**300.67**		**0.03563**
301-028	**Fuel Cladding**	**0**	**78-010000**	**cladding**		**297.39**		**0.03826**

Table CLDt5-3: CLPD LOCA Case 30: RCS Fluid Conditions (t= 9000 seconds)

Table CLDt5-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
100-010000	112.108	0.999	296.4	296.8
105-010000	112.108	0.999	296.4	296.9
110-010000	90.692	0.999	296.4	299.8
115-010000	99.530	0.596	296	297.6
117-010000	34.487	0.558	295.5	295.5
120-010000	605.616	0.469	295.1	294.9
121-010000	90.006	0.855	294.3	294.3
125-010000	104.546	0.854	294.2	294.2
125-020000	104.546	0.863	294	294
125-030000	104.546	0.853	293.9	293.9
125-040000	104.546	0.857	293.7	293.7
125-050000	156.828	0.852	293.6	293.6
125-060000	209.092	0.849	293.3	293.3
125-070000	209.092	0.850	293	293
125-080000	209.092	0.938	292.7	292.7
125-090000	209.092	1.000	292.7	293.6
125-100000	182.764	1.000	292.7	300.9
125-110000	182.764	1.000	292.7	303.8
125-120000	209.092	1.000	292.7	297.9
125-130000	209.092	1.000	292.7	295.3
125-140000	209.092	1.000	292.7	294.1
125-150000	209.092	1.000	292.7	293.7
125-160000	156.828	1.000	292.7	293.5
125-170000	104.546	1.000	292.7	293.4
125-180000	104.546	1.000	292.7	293.3
125-190000	104.546	1.000	292.7	293.3
125-200000	104.546	1.000	292.7	293.2
129-010000	90.006	1.000	292.8	293
130-010000	605.616	1.000	292.8	296.4
132-010000	34.487	1.000	292.8	296.4
135-010000	51.857	1.000	292.8	296.8
140-010000	61.586	1.000	292.8	296.9

Table CLDt5-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
145-010000	116.675	1.000	292.8	296.9
150-010000	102.591	1.000	292.8	296.8
155-010000	108.946	1.000	292.8	296.6
160-010000	413.100	0.998	292.8	293
165-010000	105.120	0.892	274.2	292.9
170-010000	105.120	0.898	248.4	292.9
175-010000	135.835	0.913	129	292.8
180-010000	116.691	0.962	130.7	292.8
200-010000	37.369	0.861	296.5	297.1
205-010000	37.369	0.913	296.5	297.1
210-010000	30.231	0.971	296.4	297.1
215-010000	33.177	0.964	296.5	296.8
217-010000	11.496	0.552	296	296.7
220-010000	201.872	0.718	295.8	295.6
221-010000	30.002	0.924	295.4	295.4
225-010000	34.849	0.910	295.3	295.3
225-020000	34.849	0.906	295.3	295.3
225-030000	34.849	0.882	295.2	295.2
225-040000	34.849	0.856	295.1	295.1
225-050000	52.276	0.852	294.9	295
225-060000	69.697	0.882	294.5	294.5
225-070000	69.697	0.923	294.1	294.1
225-080000	69.697	0.929	294	294
225-090000	69.697	0.931	293.8	293.8
225-100000	60.921	0.971	293.8	293.8
225-110000	60.921	0.971	293.7	293.7
225-120000	69.697	0.962	293.7	293.7
225-130000	69.697	0.964	293.7	293.7
225-140000	69.697	0.971	293.7	293.7
225-150000	69.697	0.975	293.7	293.7
225-160000	52.276	0.975	293.8	293.8
225-170000	34.849	0.975	293.8	293.8

Table CLDt5-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
225-180000	34.849	0.974	293.8	293.8
225-190000	34.849	0.974	293.8	293.8
225-200000	34.849	0.969	293.8	293.8
229-010000	30.002	0.993	293.8	293.8
230-010000	201.872	0.974	293.8	293.9
232-010000	11.496	0.982	293.7	293.8
235-010000	17.286	0.985	293.7	293.7
240-010000	20.529	0.987	293.7	293.7
245-010000	38.892	0.987	293.7	293.7
250-010000	34.197	0.987	293.8	293.7
255-010000	36.315	0.980	293.7	293.7
260-010000	137.700	0.978	293.2	293.2
265-010000	35.040	0.973	292.9	292.5
270-010000	35.040	0.981	292.8	292.6
275-010000	45.278	0.824	229.1	292.8
280-010000	38.897	0.003	202.4	292.7
10-010000	134.385	0.012	201.3	291.4
12-010000	184.160	2.4E-06	185.6	294
14-010000	366.488	3.6E-09	197	297.1
16-010000	414.895	0	208.9	300.7
18-010000	120.792	0	213.8	303
20-010000	212.629	0	220.8	304
22-010000	315.096	0	228.7	302.7
24-010000	45.438	1.1E-08	249.9	301.8
26-010000	48.504	0	254.4	301.6
28-010000	48.504	0	260.8	301.3
30-010000	35.789	0	266.8	301
32-010000	35.789	0	273.7	300.8
34-010000	35.789	3.8E-06	281.6	300.6
36-010000	35.789	7.4E-05	290.3	300.3
38-010000	35.789	0.022	297.8	300.1
40-010000	35.789	0.104	299.6	299.9

Table CLDt5-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
42-010000	35.789	0.174	299.7	299.7
44-010000	35.789	0.232	299.5	299.5
46-010000	35.789	0.283	299.4	299.4
48-010000	35.789	0.321	299.2	299.2
50-010000	35.789	0.353	299.1	299.1
52-010000	35.789	0.360	298.9	298.9
54-010000	33.109	0.360	298.8	298.8
56-010000	33.109	0.399	298.6	298.7
58-010000	33.109	0.362	298.5	298.6
60-010000	33.109	0.423	298.4	298.4
62-010000	33.109	0.403	298.3	298.3
64-010000	33.109	0.392	298.1	298.2
66-010000	33.109	0.480	298	298.1
68-010000	33.109	0.453	297.9	298
70-010000	33.109	0.410	297.8	297.9
72-010000	21.064	0.439	297.7	297.8
74-010000	21.064	0.477	297.7	297.7
76-010000	21.051	0.414	297.6	297.6
78-010000	86.638	0.417	297.4	297.5
80-010000	5.964	1.4E-06	295.7	301.8
80-020000	4.483	4.5E-04	297	300.3
80-030000	4.951	0.105	297.5	299
80-040000	5.894	0.420	297.5	297.8
82-010000	28.768	0.000	263.4	301.1
82-020000	21.625	0.000	274.7	299.6
82-030000	23.882	0.000	285.1	298.2
82-040000	28.430	0.954	297.4	297.6
84-010000	573.893	0.668	296.9	297
86-010000	276.840	0.999	296.5	297.6
88-010000	202.853	1.000	296.4	297
88-020000	83.659	1.000	296.4	296.4
88-030000	182.966	0.659	296.8	297
90-010000	120.233	0.980	201.7	343.3

Table CLDt5-3 – CLPD LOCA Case 30: RCS Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
92-010000	505.835	1.000	296.4	342.7
94-010000	267.973	1.000	296.4	342.7
400-010000	82.382	1.000	296.5	420.6
408-010000	161.115	1.000	296.5	497.4
410-010000	395.598	1.000	296.5	555.3
410-020000	395.598	1.000	296.5	592.3
410-030000	395.598	1.000	296.5	615.6
410-040000	395.598	1.000	296.5	630.4
410-050000	395.598	1.000	296.5	639.6
410-060000	395.598	1.000	296.5	645.4
412-010000	161.115	1.000	296.5	650.4

Table CLDt5-4: CLPD LOCA Case 30: SG Metal Stored Energy (t= 9000 seconds)

Table CLDt5-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1542-001	1-lp sep	62.7	524.57
1552-001	sg sep	62.1	483.1
1601-001	sg sep	63.0	546.86
1621-001	sg sep	63.5	575.75
1641-001	sg sep	63.0	546.88
1641-002	sg sep	63.2	557.43
1801-001	1-lp sg sh	59.0	313.89
1801-002	1-lp sg sh	58.8	306.25
1801-003	1-lp sg sh	58.6	300.72
1802-001	1-lp sg sh	61.1	396.39
1803-001	1-lp sg sh	65.0	546.73
1803-002	1-lp sg sh	63.4	484.28
1803-003	1-lp sg sh	64.4	523.04
1803-004	1-lp sg sh	65.3	558.06
1803-005	1-lp sg sh	65.8	577.41
1804-001	1-lp sg sh	65.8	578.36
1806-001	1-lp sg sh	63.0	468.28
1807-001	1-lp sg sh	58.9	295.47
1807-002	1-lp sg sh	58.9	293.81
1808-001	1-lp sg sh	58.9	295.34
1808-002	1-lp sg sh	58.9	295.21
1808-003	1-lp sg sh	58.9	295.09
1808-004	1-lp sg sh	58.9	294.98
1808-005	1-lp sg sh	58.9	294.78
1808-006	1-lp sg sh	58.9	294.55
1808-007	1-lp sg sh	58.9	294.35
1808-008	1-lp sg sh	58.9	294.18
1808-009	1-lp sg sh	58.9	294.97
1808-010	1-lp sg sh	58.9	293.82
1808-011	1-lp sg sh	58.9	293.82
1808-012	1-lp sg sh	58.9	293.82
1808-013	1-lp sg sh	58.9	293.83

Table CLDt5-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1808-014	1-lp sg sh	58.9	293.83
1808-015	1-lp sg sh	58.9	293.83
1808-016	1-lp sg sh	58.9	293.88
1808-017	1-lp sg sh	58.9	293.96
1808-018	1-lp sg sh	58.9	295.24
6241-001	DC sleeve	59.0	297.7
6241-002	DC sleeve	59.0	301
6241-003	DC sleeve	59.1	306.13
6241-004	DC sleeve	60.6	390.66
6301-001	hot DC	58.9	296.96
6301-002	hot DC	58.9	296.88
6301-003	hot DC	58.9	296.81
6301-004	hot DC	58.9	296.74
6301-005	hot DC	59.0	298.54
6301-006	hot DC	59.0	298.44
6301-007	hot DC	59.0	298.31
6301-008	hot DC	59.0	301.2
6301-009	hot DC	59.0	301.11
6301-010	hot DC	59.8	346.44
6301-011	hot DC	61.1	419.96
6311-001	cold DC	58.9	294.82
6311-002	cold DC	58.9	294.82
6311-003	cold DC	58.9	294.82
6311-004	cold DC	58.9	294.82
6311-005	cold DC	58.9	295.91
6311-006	cold DC	58.9	295.9
6311-007	cold DC	58.9	295.9
6311-008	cold DC	59.0	297.68
6311-009	cold DC	59.0	297.73
6311-010	cold DC	59.8	344.89
6311-011	cold DC	61.0	418.74
1543-001	sg sep	62.8	528.95

Table CLDt5-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1553-001	sg sep	62.0	475.29
1602-001	sg sep	63.1	550.51
1622-001	sg sep	63.5	580.03
1642-001	sg sep	63.1	550.54
1642-002	sg sep	63.2	558.88
1901-001	3-lp sg sh	59.0	314.34
1901-002	3-lp sg sh	58.8	305.67
1901-003	3-lp sg sh	58.6	299.54
1902-001	3-lp sg sh	60.7	379.47
1903-001	3-lp sg sh	65.1	550.46
1903-002	3-lp sg sh	63.3	479.69
1903-003	3-lp sg sh	64.5	527.11
1903-004	3-lp sg sh	65.4	559.88
1903-005	3-lp sg sh	65.9	581.97
1904-001	3-lp sg sh	65.9	583.1
1906-001	3-lp sg sh	62.3	440.35
1907-001	3-lp sg sh	58.9	294.53
1907-002	3-lp sg sh	58.9	293.3
1908-001	3-lp sg sh	58.9	294.41
1908-002	3-lp sg sh	58.9	294.26
1908-003	3-lp sg sh	58.9	294.12
1908-004	3-lp sg sh	58.9	293.98
1908-005	3-lp sg sh	58.9	293.74
1908-006	3-lp sg sh	58.9	293.47
1908-007	3-lp sg sh	58.9	293.34
1908-008	3-lp sg sh	58.9	293.99
1908-009	3-lp sg sh	59.1	304.23
1908-010	3-lp sg sh	58.9	293.41
1908-011	3-lp sg sh	58.9	293.4
1908-012	3-lp sg sh	58.9	293.4
1908-013	3-lp sg sh	58.9	293.48
1908-014	3-lp sg sh	58.9	293.49
1908-015	3-lp sg sh	58.9	293.51

Table CLDt5-4 – CLPD LOCA Case 30: SG Metal Stored Energy (t= 9000 seconds)

R5/M2	Heat Structure	Heat Capacity	Slab Temp
Heat Slab #	Description	BTU/Ft^3 - F	F
1908-016	3-lp sg sh	58.9	293.73
1908-017	3-lp sg sh	58.9	294.22
1908-018	3-lp sg sh	59.1	303.96
7241-001	3-lp DC sleeve	58.9	296.72
7241-002	3-lp DC sleeve	59.0	300.35
7241-003	3-lp DC sleeve	59.1	306.12
7241-004	3-lp DC sleeve	60.2	366.99
7301-001	3-lp DC	58.9	295.8
7301-002	3-lp DC	58.9	295.71
7301-003	3-lp DC	58.9	295.62
7301-004	3-lp DC	58.9	295.54
7301-005	3-lp DC	59.0	297.52
7301-006	3-lp DC	59.0	297.38
7301-007	3-lp DC	59.0	297.23
7301-008	3-lp DC	59.0	300.51
7301-009	3-lp DC	59.0	301.06
7301-010	3-lp DC	59.7	338.26
7301-011	3-lp DC	60.4	382.17
7311-001	3-lp DC cold	58.9	294.24
7311-002	3-lp DC cold	58.9	294.26
7311-003	3-lp DC cold	58.9	294.26
7311-004	3-lp DC cold	58.9	294.26
7311-005	3-lp DC cold	58.9	295.49
7311-006	3-lp DC cold	58.9	295.5
7311-007	3-lp DC cold	58.9	295.53
7311-008	3-lp DC cold	59.0	297.68
7311-009	3-lp DC cold	59.0	297.99
7311-010	3-lp DC cold	59.6	336.36
7311-011	3-lp DC cold	60.4	380.64

Table CLDt5-5: CLPD LOCA Case 30: SG Wall Film Conditions (t= 9000 seconds)

Table CLPDt5-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1542-001	1-lp sep	641-010000	639-010000	SS-316	524.7	524.43	0.03101	0.03721
1552-001	sg sep	640-010000	623-010000	SS-316	483.12	483.08	0.01635	0.02119
1601-001	sg sep	642-010000	645-010000	SS-316	546.94	546.79	0.02021	0.02232
1621-001	sg sep	660-010000	660-010000	SS-316	575.67	575.67	0.00141	0.00141
1641-001	sg sep	645-010000	642-010000	SS-316	546.84	546.92	0.02346	0.02051
1641-002	sg sep	650-010000	650-010000	SS-316	557.43	557.43	1.77060	1.77030
1801-001	1-lp sg sh	625-020000	0	SA-508	312.53	314.58	0.02494	0
1801-002	1-lp sg sh	625-030000	0	SA-508	305.38	306.7	0.02169	0
1801-003	1-lp sg sh	625-040000	0	SA-508	300.33	300.93	0.01719	0
1802-001	1-lp sg sh	625-010000	0	SA-508	394.42	397.4	0.03359	0
1803-001	1-lp sg sh	645-010000	0	SA-508	546.62	546.79	0.01818	0
1803-002	1-lp sg sh	623-010000	0	SA-508	483.63	484.61	0.02990	0
1803-003	1-lp sg sh	639-010000	0	SA-508	523.04	523.05	0.00685	0
1803-004	1-lp sg sh	650-010000	0	SA-508	557.76	558.22	0.03988	0
1803-005	1-lp sg sh	660-010000	0	SA-508	577.28	577.47	0.00182	0
1804-001	1-lp sg sh	670-010000	0	SA-508	578.27	578.4	0.00162	0
1806-001	1-lp sg sh	638-010000	640-010000	SA-508	463.84	472.66	0.05276	0.05944
1807-001	1-lp sg sh	630-010000	630-010000	SS-316	295.47	295.47	0.01304	0.01304
1807-002	1-lp sg sh	631-010000	631-010000	SS-316	293.82	293.82	0.01349	0.01349
1808-001	1-lp sg sh	630-020000	630-020000	SS-316	295.34	295.34	0.01280	0.01280
1808-002	1-lp sg sh	630-030000	630-030000	SS-316	295.21	295.21	0.01267	0.01267
1808-003	1-lp sg sh	630-040000	630-040000	SS-316	295.09	295.09	0.01277	0.01277
1808-004	1-lp sg sh	630-050000	630-050000	SS-316	294.98	294.98	0.01267	0.01267
1808-005	1-lp sg sh	630-060000	630-060000	SS-316	294.78	294.78	0.01264	0.01264
1808-006	1-lp sg sh	630-070000	630-070000	SS-316	294.55	294.55	0.01262	0.01262
1808-007	1-lp sg sh	632-010000	632-010000	SS-316	294.35	294.35	0.01246	0.01246
1808-008	1-lp sg sh	634-010000	634-010000	SS-316	294.18	294.18	0.01263	0.01263
1808-009	1-lp sg sh	636-010000	636-010000	SS-316	294.97	294.97	0.00568	0.00568
1808-010	1-lp sg sh	631-020000	631-020000	SS-316	293.82	293.82	0.01334	0.01334
1808-011	1-lp sg sh	631-030000	631-030000	SS-316	293.82	293.82	0.01337	0.01337
1808-012	1-lp sg sh	631-040000	631-040000	SS-316	293.82	293.82	0.01338	0.01338

Table CLPDt5-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1808-013	1-lp sg sh	631-050000	631-050000	SS-316	293.84	293.84	0.01330	0.01330
1808-014	1-lp sg sh	631-060000	631-060000	SS-316	293.84	293.84	0.01328	0.01328
1808-015	1-lp sg sh	631-070000	631-070000	SS-316	293.84	293.84	0.01325	0.01325
1808-016	1-lp sg sh	633-010000	633-010000	SS-316	293.88	293.88	0.01290	0.01290
1808-017	1-lp sg sh	635-010000	635-010000	SS-316	293.96	293.96	0.01277	0.01277
1808-018	1-lp sg sh	637-010000	637-010000	SS-316	295.24	295.24	0.00743	0.00743
6241-001	DC sleeve	624-040000	625-040000	SS-316	297.53	297.86	0.01688	0.01660
6241-002	DC sleeve	624-030000	625-030000	SS-316	300.69	301.31	0.02037	0.01998
6241-003	DC sleeve	624-020000	625-020000	SS-316	305.55	306.7	0.02442	0.02395
6241-004	DC sleeve	624-010000	625-010000	SS-316	390.44	390.85	0.02443	0.02280
6301-001	hot DC	630-010000	625-040000	SS-316	296.67	297.25	0.03084	0.01963
6301-002	hot DC	630-020000	625-040000	SS-316	296.58	297.19	0.03112	0.01989
6301-003	hot DC	630-030000	625-040000	SS-316	296.49	297.13	0.03139	0.02015
6301-004	hot DC	630-040000	625-040000	SS-316	296.41	297.07	0.03163	0.02038
6301-005	hot DC	630-050000	625-030000	SS-316	297.71	299.37	0.03806	0.02668
6301-006	hot DC	630-060000	625-030000	SS-316	297.58	299.29	0.03828	0.02691
6301-007	hot DC	630-070000	625-030000	SS-316	297.42	299.2	0.03852	0.02717
6301-008	hot DC	632-010000	625-020000	SS-316	299.39	302.99	0.04439	0.03364
6301-009	hot DC	634-010000	625-020000	SS-316	299.28	302.93	0.04450	0.03377
6301-010	hot DC	636-010000	625-010000	SS-316	327.84	364.82	0.07111	0.08581
6301-011	hot DC	638-010000	625-010000	SS-316	430	409.91	0.06249	0.07307
6311-001	cold DC	631-010000	624-040000	SS-316	294.64	295	0.02786	0.01709
6311-002	cold DC	631-020000	624-040000	SS-316	294.64	295	0.02785	0.01708
6311-003	cold DC	631-030000	624-040000	SS-316	294.64	295	0.02785	0.01708
6311-004	cold DC	631-040000	624-040000	SS-316	294.64	295	0.02785	0.01708
6311-005	cold DC	631-050000	624-030000	SS-316	295.47	296.34	0.03331	0.02201
6311-006	cold DC	631-060000	624-030000	SS-316	295.47	296.34	0.03331	0.02202
6311-007	cold DC	631-070000	624-030000	SS-316	295.47	296.34	0.03331	0.02202
6311-008	cold DC	633-010000	624-020000	SS-316	296.78	298.57	0.03858	0.02723
6311-009	cold DC	635-010000	624-020000	SS-316	296.84	298.61	0.03850	0.02714
6311-010	cold DC	637-010000	624-010000	SS-316	327.03	362.54	0.07055	0.08338
6311-011	cold DC	638-010000	624-010000	SS-316	429.26	408.2	0.06321	0.07281

Table CLPDt5-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1543-001	sg sep	741-010000	739-010000	SS-316	529.32	528.59	0.04166	0.04982
1553-001	sg sep	740-010000	723-010000	SS-316	475.43	475.15	0.02866	0.03615
1602-001	sg sep	742-010000	745-010000	SS-316	550.69	550.34	0.02575	0.02865
1622-001	sg sep	760-010000	760-010000	SS-316	579.85	579.85	0.00169	0.00169
1642-001	sg sep	745-010000	742-010000	SS-316	550.44	550.63	0.03023	0.02639
1642-002	sg sep	750-010000	750-010000	SS-316	558.88	558.88	1.81210	1.81210
1901-001	3-lp sg sh	725-020000	0	SA-508	312.74	315.16	0.02619	0
1901-002	3-lp sg sh	725-030000	0	SA-508	304.69	306.18	0.02246	0
1901-003	3-lp sg sh	725-040000	0	SA-508	299.09	299.77	0.01780	0
1902-001	3-lp sg sh	725-010000	0	SA-508	373.87	382.33	0.04391	0
1903-001	3-lp sg sh	745-010000	0	SA-508	550.13	550.64	0.02532	0
1903-002	3-lp sg sh	723-010000	0	SA-508	476.56	481.28	0.04659	0
1903-003	3-lp sg sh	739-010000	0	SA-508	526.52	527.41	0.03032	0
1903-004	3-lp sg sh	750-010000	0	SA-508	559.31	560.19	0.04885	0
1903-005	3-lp sg sh	760-010000	0	SA-508	581.75	582.08	0.00205	0
1904-001	3-lp sg sh	770-010000	0	SA-508	582.94	583.19	0.00188	0
1906-001	3-lp sg sh	738-010000	740-010000	SA-508	427.38	453.29	0.06556	0.08048
1907-001	3-lp sg sh	730-010000	730-010000	SS-316	294.53	294.53	0.01418	0.01418
1907-002	3-lp sg sh	731-010000	731-010000	SS-316	293.3	293.3	0.00957	0.00957
1908-001	3-lp sg sh	730-020000	730-020000	SS-316	294.4	294.4	0.01607	0.01607
1908-002	3-lp sg sh	730-030000	730-030000	SS-316	294.25	294.25	0.01658	0.01658
1908-003	3-lp sg sh	730-040000	730-040000	SS-316	294.11	294.11	0.01707	0.01707
1908-004	3-lp sg sh	730-050000	730-050000	SS-316	293.97	293.97	0.01772	0.01772
1908-005	3-lp sg sh	730-060000	730-060000	SS-316	293.73	293.73	0.01833	0.01833
1908-006	3-lp sg sh	730-070000	730-070000	SS-316	293.46	293.46	0.01905	0.01905
1908-007	3-lp sg sh	732-010000	732-010000	SS-316	293.33	293.33	0.01777	0.01777
1908-008	3-lp sg sh	734-010000	734-010000	SS-316	294.03	294.03	0.02398	0.02398
1908-009	3-lp sg sh	736-010000	736-010000	SS-316	304.53	304.53	0.03454	0.03454
1908-010	3-lp sg sh	731-020000	731-020000	SS-316	293.41	293.41	0.01534	0.01534
1908-011	3-lp sg sh	731-030000	731-030000	SS-316	293.39	293.39	0.01513	0.01513
1908-012	3-lp sg sh	731-040000	731-040000	SS-316	293.4	293.4	0.01473	0.01473

Table CLPDt5-5 – CLPD LOCA Case 30: SG Wall Film Conditions (t= 9000 seconds)

* Length units are in feet, temperature units are in degrees F and HTC units are in BTU/FT2-SEC-F

R5/M2	Heat Structure	Associated Control Volume		Metal	Surface Temp	Surface Temp	HTC	HTC
Heat Slab #	Description	Left Side	Right Side	Material	Left Side	Right Side	Left Side	Right Side
1908-013	3-lp sg sh	731-050000	731-050000	SS-316	293.48	293.48	0.01213	0.01213
1908-014	3-lp sg sh	731-060000	731-060000	SS-316	293.49	293.49	0.01028	0.01028
1908-015	3-lp sg sh	731-070000	731-070000	SS-316	293.51	293.51	0.01245	0.01245
1908-016	3-lp sg sh	733-010000	733-010000	SS-316	293.73	293.73	0.01650	0.01650
1908-017	3-lp sg sh	735-010000	735-010000	SS-316	294.24	294.24	0.01976	0.01976
1908-018	3-lp sg sh	737-010000	737-010000	SS-316	304.28	304.28	0.03508	0.03508
7241-001	3-lp DC sleeve	724-040000	725-040000	SS-316	296.6	296.82	0.01520	0.01450
7241-002	3-lp DC sleeve	724-030000	725-030000	SS-316	300.08	300.62	0.01959	0.01894
7241-003	3-lp DC sleeve	724-020000	725-020000	SS-316	305.57	306.64	0.02412	0.02344
7241-004	3-lp DC sleeve	724-010000	725-010000	SS-316	366.73	367.22	0.02555	0.02212
7301-001	3-lp DC	730-010000	725-040000	SS-316	295.54	296.05	0.03016	0.01877
7301-002	3-lp DC	730-020000	725-040000	SS-316	295.44	295.98	0.03053	0.01911
7301-003	3-lp DC	730-030000	725-040000	SS-316	295.33	295.91	0.03089	0.01943
7301-004	3-lp DC	730-040000	725-040000	SS-316	295.23	295.84	0.03124	0.01973
7301-005	3-lp DC	730-050000	725-030000	SS-316	296.65	298.38	0.03836	0.02684
7301-006	3-lp DC	730-060000	725-030000	SS-316	296.48	298.27	0.03865	0.02713
7301-007	3-lp DC	730-070000	725-030000	SS-316	296.28	298.15	0.03897	0.02745
7301-008	3-lp DC	732-010000	725-020000	SS-316	298.56	302.45	0.04505	0.03432
7301-009	3-lp DC	734-010000	725-020000	SS-316	299.3	302.82	0.04402	0.03355
7301-010	3-lp DC	736-010000	725-010000	SS-316	327.32	349.14	0.06470	0.07152
7301-011	3-lp DC	738-010000	725-010000	SS-316	386.34	378.02	0.04751	0.05472
7311-001	3-lp DC cold	731-010000	724-040000	SS-316	294.06	294.41	0.02775	0.01676
7311-002	3-lp DC cold	731-020000	724-040000	SS-316	294.09	294.43	0.02763	0.01665
7311-003	3-lp DC cold	731-030000	724-040000	SS-316	294.09	294.42	0.02765	0.01668
7311-004	3-lp DC cold	731-040000	724-040000	SS-316	294.09	294.43	0.02761	0.01666
7311-005	3-lp DC cold	731-050000	724-030000	SS-316	295.05	295.92	0.03332	0.02196
7311-006	3-lp DC cold	731-060000	724-030000	SS-316	295.07	295.93	0.03328	0.02193
7311-007	3-lp DC cold	731-070000	724-030000	SS-316	295.1	295.95	0.03314	0.02184
7311-008	3-lp DC cold	733-010000	724-020000	SS-316	296.76	298.6	0.03878	0.02744
7311-009	3-lp DC cold	735-010000	724-020000	SS-316	297.15	298.83	0.03807	0.02680
7311-010	3-lp DC cold	737-010000	724-010000	SS-316	326.09	346.59	0.06384	0.06906
7311-011	3-lp DC cold	738-010000	724-010000	SS-316	385.31	375.97	0.04890	0.05555

Table CLDt5-6: CLPD LOCA Case 30: SG Fluid Conditions (t= 9000 seconds)

Table CLDt5-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
620-010000	366.645	0.000	505.24	557.95
623-010000	366.645	0.000	482.68	557.95
624-010000	155.893	0.000	389.2	558.22
624-020000	43.006	0.000	302.54	558.63
624-030000	59.135	0.000	298.72	559.13
624-040000	43.006	0.000	296.28	559.64
625-010000	180.020	0.000	391.83	558.23
625-020000	73.345	0.000	309.47	558.63
625-030000	100.851	0.000	303.14	559.14
625-040000	73.345	0.000	299.04	559.64
630-010000	70.116	0.000	295.51	559.8
630-020000	70.116	0.000	295.38	559.69
630-030000	70.116	0.000	295.25	559.58
630-040000	70.116	0.000	295.12	559.48
630-050000	105.180	0.000	295.01	559.35
630-060000	140.232	0.000	294.81	559.16
630-070000	140.232	0.000	294.59	558.95
631-010000	70.116	0.000	293.86	559.8
631-020000	70.116	0.000	293.86	559.69
631-030000	70.116	0.000	293.86	559.59
631-040000	70.116	0.000	293.86	559.48
631-050000	105.180	0.000	293.88	559.35
631-060000	140.232	0.000	293.88	559.16
631-070000	140.232	0.000	293.88	558.95
632-010000	140.232	0.000	294.38	558.73
633-010000	140.232	0.000	293.91	558.73
634-010000	140.232	0.000	294.22	558.52
635-010000	140.232	0.000	293.99	558.52
636-010000	86.672	0.000	294.97	558.35
637-010000	86.672	0.000	295.24	558.35
638-010000	609.522	0.000	451.13	558.16
639-010000	635.282	0.000	523.01	557.81

Table CLDt5-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
640-010000	125.309	0.000	483.56	557.95
641-010000	117.514	0.000	526.45	557.81
642-010000	320.019	0.000	547.41	557.61
645-010000	1075.296	0.000	546.38	557.61
650-010000	830.204	0.500	556.63	557.41
660-010000	703.676	1.000	557.4	574.28
670-010000	400.000	1.000	557.39	576.06
720-010000	1099.935	0.000	497.98	559.39
723-010000	1099.935	0.000	473.56	559.39
724-010000	467.679	0.000	365.18	559.66
724-020000	129.019	0.000	302.64	560.07
724-030000	177.404	0.000	298.29	560.57
724-040000	129.019	0.000	295.64	561.07
725-010000	540.019	0.000	368.23	559.67
725-020000	220.035	0.000	309.27	560.07
725-030000	302.553	0.000	302.22	560.57
725-040000	220.035	0.000	297.67	561.07
730-010000	210.349	0.000	294.47	561.23
730-020000	210.349	0.000	294.31	561.12
730-030000	210.349	0.000	294.15	561.02
730-040000	210.349	0.000	294	560.91
730-050000	315.541	0.000	293.84	560.78
730-060000	420.697	0.000	293.58	560.6
730-070000	420.697	0.000	293.28	560.38
731-010000	210.349	0.000	293.29	561.23
731-020000	210.349	0.000	293.34	561.12
731-030000	210.349	0.000	293.33	561.02
731-040000	210.349	0.000	293.34	560.91
731-050000	315.541	0.000	293.45	560.78
731-060000	420.697	0.000	293.47	560.6
731-070000	420.697	0.000	293.54	560.38
732-010000	420.697	0.000	293.2	560.17

Table CLDt5-6 – CLPD LOCA Case 30: SG Fluid Conditions (t= 9000 seconds)

R5/M2	CV Vol	$Void_g$	Liq Temp	Stm Temp
CV #	Ft^3		F	F
733-010000	420.697	0.000	293.83	560.17
734-010000	420.697	0.000	294.46	559.96
735-010000	420.697	0.000	294.44	559.96
736-010000	260.017	0.000	306.24	559.79
737-010000	260.017	0.000	306.1	559.79
738-010000	1828.567	0.000	397.65	559.59
739-010000	1905.846	0.000	525.68	559.25
740-010000	375.926	0.000	477.24	559.39
741-010000	352.543	0.000	532.86	559.24
742-010000	960.056	0.000	551.53	559.05
745-010000	3225.888	0.000	549.58	559.05
750-010000	2490.612	0.547	558.09	558.86
760-010000	2111.028	1.000	558.85	577.48
770-010000	1200.000	1.000	558.84	579.54

PLACE APPENDIX A TEXT ABOVE THIS LINE. DO NOT DELETE THIS BOOKMARK.