

ATTACHMENT A

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Table 3.8-1 CONTAINMENT PENETRATION CONDUCTOR OVER-CURRENT PROTECTIVE DEVICES

OVER-CURRENT PROTECTIVE DEVICES					WITHIN EACH VOLTAGE LEVEL (ROMAN)				MODES FOR WHICH SURV IS REQUIR'D
BREAKER PROTECTION	DRAWING	IDENTIFYING NUMBER OR DESCRIPTION	TYPE	TIME CURRENT CHARACTERISTIC	FUNCT TEST 4.8.4.1 a.2	CHAN CALIB 4.8.4.1 a.1.a	INTEG FUNCT TEST 4.8.4.1.a.1.b	INSP & PREV MAINT 4.8.4.1.b	
79 SOLENOID VALVE 1CH-E2505B (CVC-216B)									
a Primary	289-148	Circuit 31	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	289-148A	Circuit 31	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4
80 SOLENOID VALVE 7WM-E677 (SP-102B)*									
a Primary	5817-6368	CB 2	Breaker CH	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	5817-6368	Circuit H4	Breaker QO	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
* 15a breakers on Skid #4 (5817-6368).									
81 SOLENOID VALVES 2RC-2557A (RC-3184), 2RC-2559A (RC-1015), 2RC-2561A (RC-3186)									
a Primary	289-212	Circuit 2	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	289-120A	F2	Fuse TRS		NA	NA	NA	NA	1, 2, 3, 4
82 SOLENOID VALVES 21C-2558B (RC-3183), 2RC-2560B (RC-1014), 2RC-2562B (RC-1017)									
a Primary	289-213	Circuit 2	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	289-121A	F1	Fuse TRS		NA	NA	NA	NA	1, 2, 3, 4
83 SPACE HEATER 1SI-V1505TK1A (SI-331A)									
a Primary	289-186	Circuit 13	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	289-186A	Circuit 13	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4
84 LIMIT SWITCH & INDICATING LIGHTS 1SI-V1505TK1A (SI-331A)									
a Primary	289-147	Circuit 6	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	289-147A	Circuit 6	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4

Table 3.8-1 CONTAINMENT PENETRATION CONDUCTOR OVER-CURRENT PROTECTIVE DEVICES

OVER-CURRENT PROTECTIVE DEVICES					WITHIN EACH VOLTAGE LEVEL (ROMAN)				MODES FOR WHICH SURV IS REQUIR'D
BREAKER PROTECTION	DRAWING	IDENTIFYING NUMBER OR DESCRIPTION	TYPE	TIME CURRENT CHARACTERISTIC	FUNCT TEST 4.8.4.1 a.2	CHAN CALIB 4.8.4.1 a.1.a	INTEG FUNCT TEST 4.8.4.1.a.1.b	INSP & PREV MAINT 4.8.4.1.b	
85 SPACE HEATER 1SI-V1507TK2A (SI-332A)									
a. Primary	289-186	Circuit 15	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-186A	Circuit 15	Fuse FRN		NA	NA	NA		1, 2, 3, 4
86 LIMIT SWITCH & INDICATING LIGHTS 1SI-V1507TK2A (SI-332A)									
a. Primary	289-147	Circuit 8	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-147A	Circuit 8	Fuse FRN		NA	NA	NA		1, 2, 3, 4
87 RCP 2A SPEED SENSOR									
a. Primary	289-126	Circuit 5	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-126A	F6	Fuse ATM		NA	NA	NA		1, 2, 3, 4
88 RCP 2A SPEED SENSOR									
a. Primary	289-126	Circuit 7	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-126A	F5	Fuse ATM		NA	NA	NA		1, 2, 3, 4
89 RADIATION REMOVAL UNIT E-13 (3A) THERMISTOR									
a. Primary	289-133	Circuit 24	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-133A	F6	Fuse TRS		NA	NA	NA		1, 2, 3, 4
90 CONTAINMENT COOLING UNIT CONDENSING POT FLOW DETECTOR									
a. Primary	289-149	Circuit 3	Breaker TEB	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	424-829	F1	Fuse ATM		NA	NA	NA		1, 2, 3, 4

Table 3.8-1 CONTAINMENT PENETRATION CONDUCTOR OVER-CURRENT PROTECTIVE DEVICES

BREAKER PROTECTION]	OVER-CURRENT PROTECTIVE DEVICES				WITHIN EACH VOLTAGE LEVEL (ROMAN)				MODES FOR WHICH SURV IS REQUIR'D
	DRAWING	IDENTIFYING NUMBER OR DESCRIPTION	TYPE	TIME CURRENT CHARACTERISTIC	FUNCT TEST 4.8.4.1 a.2	CHAN CALIB 4.8.4.1 a.1.a	INTEG FUNCT TEST 4.8.4.1.a.1.b	INSP & PREV MAINT 4.8.4.1.b	
91 PRESSURIZER SPRAY VALVES 1RC-F1501A (RC-301A) & 1RC-F1502B (RC-301B)									
a Primary	209-150	Circuit 4	Breaker TEB	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	424-296	F1	Fuse ATM		NA	NA	NA		1, 2, 3, 4
92 MOVALBLE INCORE DETECTOR DRIVE MACHINE #1 CONTROL									
a Primary	289-126	Circuit 32	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	424-158	Fuse	FRN		NA	NA	NA		1, 2, 3, 4
93 MOVALBLE INCORE DETECTOR SWITCHING DEVICE									
a Primary	289-136	Circuit 7	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	424-158	Fuse	ABU		NA	NA	NA		1, 2, 3, 4
94 REFUELING MACHINE CONTROL									
a Primary	5817-4241	Fuse	TRS		NA	NA	NA		1, 2, 3, 4
b Backup	5817-4241	Fuse	KTN/KTNR		NA	NA	NA		1, 2, 3, 4
95 SPACE HEATER 1SI-V1506TK1B (SI-331B)									
a Primary	289-187	Circuit 13	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	289-187A	Circuit 13	Fuse FRN		NA	NA	NA		1, 2, 3, 4
96 LIMIT SWITCH & INDICATING LIGHTS 1SI-V1506TK1B (SI-331B)									
a Primary	289-148	Circuit 6	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b Backup	289-148A	Circuit 6	Fuse FRN		NA	NA	NA		1, 2, 3, 4

Table 3.8-1 CONTAINMENT PENETRATION CONDUCTOR OVER-CURRENT PROTECTIVE DEVICES

OVER-CURRENT PROTECTIVE DEVICES					WITHIN EACH VOLTAGE LEVEL (ROMAN)				MODES FOR WHICH SURV IS REQUIR'D
BREAKER PROTECTION]	DRAWING NUMBER	IDENTIFYING NUMBER OR DESCRIPTION	TYPE	TIME CURRENT CHARACTERISTIC	FUNCT TEST 4.8.4.1 a.2	CHAN CALIB 4.8.4.1 a.1.a	INTEG FUNCT TEST 4.8.4.1.a.1.b	INSP & PREV MAINT 4.8.4.1.b	
97 SPACE HEATER 1SI-V1508TK2B (SI-332B)									
a. Primary	289-187	Circuit 15	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-187A	Circuit 15	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4
98 LIMIT SWITCH & INDICATING LIGHTS 1SI-V1508TK2B (SI-332B)									
a. Primary	289-148	Circuit 8	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-148A	Circuit 8	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4
99 RCP 1B SPEED SENSOR									
a. Primary	289-127	Circuit 5	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-127A	F6	Fuse ATM		NA	NA	NA	NA	1, 2, 3, 4
10 RCP 2B SPEED SENSOR									
a. Primary	289-127	Circuit 7	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-127A	F5	Fuse ATM		NA	NA	NA	NA	1, 2, 3, 4
11 RADIATION REMOVAL UNIT E-13 (3B) THERMISTOR									
a. Primary	289-134	Circuit 24	Breaker EE	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-134A	F1	Fuse ATM		NA	NA	NA	NA	1, 2, 3, 4
12 CONTAINMENT AIR LOCKS DOOR POSITION INDICATOR									
a. Primary	289-147	Circuit 33	Breaker CD	Note VI.2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b. Backup	289-147A	Circuit 33	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4

ATTACHMENT B

Table 3 8-1 Suppl. #1 CONTAINMENT PENETRATION CONDUCTOR OVER-CURRENT PROTECTIVE DEVICES

BREAKER PROTECTION]	OVER-CURRENT PROTECTIVE DEVICES				TIME CURRENT CHARACTERISTIC	WITHIN EACH VOLTAGE LEVEL (RCMAN)				MODES FOR WHICH SURV IS REQUIR'D
	DRAWING	IDENTIFYING NUMBER OR DESCRIPTION	TYPE			FUNCT TEST 4 8 4.1 a 2	CHAN CALIB 4 8 4.1 a.1 a	INTEG FUNCT TEST 4 8 4.1 a.1 b	INSP & PREV MAINT 4 8 4.1 b	
79 SOLENOID VALVE 1CH-E2505B (CVC-216B)										
a Primary	289-148	Circuit 31	Breaker CD	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4	
b Backup	289-148A	Circuit 31	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4	
80 SOLENOID VALVE 7WM-E677 (SP-102B)*										
a Primary	5817-6368	CB 2	Breaker CH	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4	
b Backup	5817-6368	Circuit H4	Breaker QO	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4	
* 15a breakers on Skid #4 (5817-6368)										
81 SOLENOID VALVES 2RC-2557A (RC-3184), 2RC-2559A (RC-1015), 2RC-2561A (RC-3186)										
a Primary	289-212	Circuit 2	Breaker EE	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4	
b Backup	289-120A	F2	Fuse TRS		NA	NA	NA	NA	1, 2, 3, 4	
82 SOLENOID VALVES 2RC-2558B (RC-3183), 2RC-2560B (RC-1014), 2RC-2562B (RC-1017)										
a Primary	289-213	Circuit 2	Breaker EE	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4	
b Backup	289-121A	F1	Fuse TRS		NA	NA	NA	NA	1, 2, 3, 4	
83 SPACE HEATER 1SI-V1505TK1A (SI-331A)										
<p><i>RECALL WITH</i></p> <p>THE SPACE HEATER WAS DISCONNECTED AT THE VALVE AND BOTH THE BREAKER AND FUSE ARE SPARED.</p>										
84 LIMIT SWITCH & INDICATING LIGHTS 1SI-V1505TK1A (SI-331A)										
a Primary	289-147	Circuit 6	Breaker CD	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4	
b Backup	289-147A	Circuit 6	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4	

Table 3 8-1 Suppl. #1 CONTAINMENT PENETRATION CONDUCTOR OVER-CURRENT PROTECTIVE DEVICES

OVER-CURRENT PROTECTIVE DEVICES					WITHIN	EACH VOLTAGE LEVEL (ROMAN)				MODES
BREAKER PROTECTION]	DRAWING	IDENTIFYING NUMBER OR DESCRIPTIVE	TYPE	TIME CURRENT CHARACTERISTIC	FUNCT TEST	CHAN CALIB	INTEG FUNCT TEST	INSP & PREV MAINT	FOR WHICH SURV IS REQUIRED	
					4 8 4 1 a 2	4 8 4 1 a 1 a	4 8 4 1 a 1 b	4 8 4 1 b		
85	SPACE HEATER 1SI-V1507TK2A (SI-332A)									
	REPLACE WITH: <i>THE SPACE HEATER WAS DISCONNECTED AT THE VALVE AND BOTH THE BREAKER AND FUSE ARE SPARED</i>									
86	LIMIT SWITCH & INDICATING LIGHTS 1SI-V1507TK2A (SI-332A)									
a	Primary	289-147	Circuit 8	Breaker CD	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b	Backup	289-147A	Circuit 8	Fuse FRN		NA	NA	NA		1, 2, 3, 4
87	RCP 1A SPEED SENSOR									
a	Primary	289-126	Circuit 5	Breaker EE	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b	Backup	289-126A	F6	Fuse ATM		NA	NA	NA		1, 2, 3, 4
88	RCP 2A SPEED SENSOR									
a	Primary	289-126	Circuit 7	Breaker EE	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b	Backup	289-126A	F5	Fuse ATM		NA	NA	NA		1, 2, 3, 4
89	RADIATION REMOVAL UNIT E-13 (3A) THERMISTOR									
a	Primary	289-133	Circuit 24	Breaker EE	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b	Backup	289-133A	F6	Fuse TRS		NA	NA	NA		1, 2, 3, 4
90	CONTAINMENT COOLING UNIT CONDENSING POT FLOW DETECTOR									
a	Primary	289-149	Circuit 3	Breaker TEB	Note VI 2	10% of Type per R	NA	NA	≤ every 60 M	1, 2, 3, 4
b	Backup	424-829	F1	Fuse ATM		NA	NA	NA		1, 2, 3, 4

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OVER-CURRENT PROTECTIVE DEVICES					WITHIN EACH VOLTAGE LEVEL (ROMAN)				MODES FOR WHICH SURVIVAL IS REQUIRE'D
BREAKER PROTECTION]	DRAWING NUMBER	IDENTIFYING OR DESCRIPTION	TYPE	TIME CURRENT CHARACTERISTIC	FUNCT TEST 4.8.4.1 a.2	CHAN CALIB 4.8.4.1 a.1.a	INTEG FUNCT TEST 4.8.4.1 a.1.b	INSP & PREV MAINT 4.8.4.1 b	
91 PRESSURIZER SPRAY VALVES 1RC-F1501A (RC-301A) & 1RC-F1502B (RC-301B)									
a Primary	289-150	Circuit 4	Breaker TEB	Note VI.2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	424-296	F1	Fuse ATM		NA	NA	NA	NA	1, 2, 3, 4
92 MOVABLE INCORE DETECTOR DRIVE MACHINE #1 CONTROL									
a Primary	289-126	Circuit 32	Breaker EE	Note VI.2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	424-158	Fuse	FRN		NA	NA	NA	NA	1, 2, 3, 4
93 MOVABLE INCORE DETECTOR SWITCHING DEVICE									
a Primary	289-136	Circuit 7	Breaker CD	Note VI.2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	424-158	Fuse	ABU		NA	NA	NA	NA	1, 2, 3,
94 REFUELING MACHINE CONTROL									
a Primary	5817-4241	Fuse	TRS		NA	NA	NA	NA	1, 2, 3, 4
b Backup	5817-4241	Fuse	KTN/KTNR		NA	NA	NA	NA	1, 2, 3, 4
95 SPACE HEATER 1SI-V1506TK1B (SI-331B)									
REPLACE WITH		<i>THE SPACE HEATER WAS DISCONNECTED AT THE VALVE AND BOTH THE BREAKER AND FUSE ARE SPARED.</i>							
96 LIMIT SWITCH & INDICATING LIGHTS 1SI-V1506TK1B (SI-331B)									
a Primary	289-148	Circuit 6	Breaker CD	Note VI.2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	289-148A	Circuit 6	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4

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OVER-CURRENT PROTECTIVE DEVICES					WITHIN	EACH VOLTAGE LEVEL (ROMAN)			MODES
BREAKER PROTECTION]	DRAWING	IDENTIFYING NUMBER OR DESCRIPTION	TYPE	TIME CURRENT CHARACTERISTIC	FUNCT TEST	CHAN CALIB	INTEG FUNCT TEST	INSP & PREV MAINT	FOR WHICH SURV IS REQUIR'D
					4.8.4.1 a.2	4.8.4.1 a.1.a	4.8.4.1.a.1.b	4.8.4.1.b	
97 SPACE HEATER 1SI-V1508TK2B (SI-332B)									
<p>REPLACE WITH</p> <p><i>THE SPACE HEATER WAS DISCONNECTED AT THE VALVE AND BOTH THE BREAKER AND FUSE ARE SPARED.</i></p>									
98 LIMIT SWITCH & INDICATING LIGHTS 1SI-V1508TK2B (SI-332B)									
a Primary	289-148	Circuit 8	Breaker CD	Note VI 2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	289-148A	Circuit 8	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4
99 RCP 1B SPEED SENSOR									
a Primary	289-127	Circuit 5	Breaker EE	Note VI 2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	289-127A	F6	Fuse ATM		NA	NA	NA	NA	1, 2, 3, 4
100 RCP 2B SPEED SENSOR									
a Primary	289-127	Circuit 7	Breaker EE	Note VI 2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	289-127A	F5	Fuse ATM		NA	NA	NA	NA	1, 2, 3, 4
101 RADIATION REMOVAL UNIT E-13 (3B) THERMISTOR									
a Primary	289-134	Circuit 24	Breaker EE	Note VI 2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	289-134A	F1	Fuse ATM		NA	NA	NA	NA	1, 2, 3, 4
102 CONTAINMENT AIR LOCKS DOOR POSITION INDICATOR									
a Primary	289-147	Circuit 33	Breaker CD	Note VI 2	10% of Type per R	NA	NA	5 every 60 M	1, 2, 3, 4
b Backup	289-147A	Circuit 33	Fuse FRN		NA	NA	NA	NA	1, 2, 3, 4