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TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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3.7.3 Fire Protection

3.7.3.3 CO₂ Systems

TRO 3.7.3.3 The low pressure CO₂ systems shown in Table 3.7.3.3-1 shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the CO₂ systems is required to be OPERABLE.

ACTIONS

NOTE
Separate condition entry is allowed for each system.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more of the required CO ₂ systems inoperable	A.1 Enter the Condition referenced in Table 3.7.3.3-1 for the CO ₂ systems	Immediately
B. As required by Required Action A.1 and referenced in Table 3.7.3.3-1	B.1 Establish a continuous fire watch with backup fire suppression equipment for the affected area.	1 hour
C. As required by Required Action A.1 and referenced in Table 3.7.3.3-1	C.1 Establish an hourly fire watch patrol for the affected area.	1 hour

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
TRS 3.7.3.3.1	Verify the CO ₂ storage tank level to be greater than 25% and pressure to be greater than 270 psig.	7 days
TRS 3.7.3.3.2	Verify that each manual, power operated, or automatic valve, in the flow path is in its correct position for each of the required low pressure CO ₂ systems.	31 days
TRS 3.7.3.3.3	Verify the system valves and associated ventilation dampers actuate manually and automatically for each of the required low pressure CO ₂ systems.	18 months
TRS 3.7.3.3.4	Verify the flow from each accessible nozzle by performance of a "Puff Test" for each of the required low pressure CO ₂ systems.	18 months

Table 3.7.3.3-1 (Page 1 of 2)
Low Pressure CO₂ Systems

SYS. #	DESCRIPTION	FIRE ZONE	REQUIRED ACTIONS
1.07	Unit 1 Control Room Underfloor	0-26F, 0-26G, 0-26H	B
1.08	Unit 2 Control Room Underfloor	0-26H, 0-26I, 0-26J	B
1.10	Unit 2 UPS Room & underfloor	0-24A	C
1.11	Computer Room & above ceiling	0-24E	C
1.12	Computer Maintenance Room	0-24F	C
1.14	Unit 2 Lower Relay Room	0-24G	B
1.15	Comp. Mnt. Rm./Corr. above ceiling	0-24B, 0-24F	C
1.16	Comp. Mnt. Rm./Corr. underfloor	0-24B, 0-24F	C
1.17	TSC Room C-412/414 Soffit	0-26R	B
1.19	Unit 1 Control Room Soffit	0-26N	B
1.20	Unit 2 Control Room Soffit	0-26P	B
1.21	North Cable Chase (698'-783')	0-24M, 0-25D, 0-26V, 0-27H, 0-28R	B
1.22	Center Cable Chase (698'-783')	0-24L, 0-25C, 0-26T, 0-27G, 0-28Q	B
1.23	South Cable Chase (698'-783')	0-24J, 0-25B, 0-26S, 0-27F, 0-28P	B
1.24	North Cable Chase (729')	0-26D	B
1.25	Center Cable Chase (729')	0-26C	B
1.26	South Cable Chase (729')	0-26B	B
1.28	Unit 2 Upper Relay Room	0-27A	B

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3.7.3 Fire Protection

3.7.3.8 Fire Detection Instrumentation

TRO 3.7.3.8 The fire detection instrumentation for each fire detection zone shown in Table 3.7.3.8-1 shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the fire detection instrument is required to be OPERABLE.

ACTIONS

NOTE

1. Separate condition entry is allowed for each instrument.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The number of OPERABLE fire detection instruments less than the Minimum Instruments Operable requirement of Table 3.7.3.8-1	A.1 Establish an hourly fire watch patrol	1 hour
	<u>AND</u> A.2.1 Inspect the accessible zone(s) with inoperable instrument(s)	Once per hour
	<u>OR</u> A.2.2 Inspect the affected area surrounding any inaccessible zones	Once per hour

TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE		FREQUENCY
-----NOTE----- When a detector is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and required Actions may be delayed for up to 15 minutes.		N/A
TRS 3.7.3.8.1	Perform CHANNEL FUNCTIONAL TEST on accessible fire detection instruments.	12 months
TRS 3.7.3.8.2	Verify that the supervised circuits supervision associated with the detector alarms of each of the fire detection instruments listed in Table 3.7.3.8-1 are OPERABLE.	12 months
TRS 3.7.3.8.3	Perform CHANNEL FUNCTIONAL TEST on inaccessible fire detection instruments.	Prior to startup from each COLD SHUTDOWN exceeding 48 hours unless performed in the previous 12 months

TABLE 3.7.3.8-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA	ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
a.	Control Building							
0-21A	Common Equipment Room Elevator Lobby	656'-0"	NA	NA	1	1	NA	NA
0-22A	Above Ceiling/Filter Area	687'-8"	NA	NA	10	5	NA	NA
0-22A	Elevator Lobby	676'-0"	NA	NA	1	1	NA	NA
0-22A	Chem Lab 0F135 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA
	Chem Lab DS-021	687'-10"	2	1	NA	NA	NA	NA
	Chem Lab 0F138 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA
	Chem Lab DS-022	687'-10"	2	1	NA	NA	NA	NA
	Chem Lab 0F141 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA
	Chem Lab DS-023	687'-10"	2	1	NA	NA	NA	NA
	Chem Lab 0F144 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA
	Chem Lab DS-024	687'-10"	2	1	NA	NA	NA	NA
0-23	Egress Corridor to South Stairwell	686'-6"	NA	NA	1	1	NA	NA
0-24A	UPS Panel Room U-2	698'-0"	4	2	2	1	NA	NA
0-24B	Corridor	698'-0"	NA	NA	5	3	NA	NA
0-24B	Corridor (Under Floor)	697'-0"	2	1	NA	NA	NA	NA
0-24B	Corridor (Above Ceiling)	698'-0"	4	2	NA	NA	NA	NA
0-24B	Corridor Elevator Lobby	698'-0"	NA	NA	1	1	NA	NA
0-24D	U1 Lower Relay Room	698'-0"	4	2	4	2	NA	NA
0-24E	Computer Room	698'-0"	NA	NA	6	3	NA	NA
0-24E	Computer Room (Above Ceiling)	698'-0"	12	6	4	2	NA	NA
0-24E	Computer Room 1U720	697'-0"	NA	NA	4	2	NA	NA
	PGCC Underfloor 1U722	697'-0"	NA	NA	4	2	NA	NA
	1U724	697'-0"	NA	NA	4	2	NA	NA
	1U726	697'-0"	NA	NA	4	2	NA	NA
	2U721	697'-0"	NA	NA	4	2	NA	NA
	2U723	697'-0"	NA	NA	4	2	NA	NA
	2U725	697'-0"	NA	NA	4	2	NA	NA
	2U727	697'-0"	NA	NA	4	2	NA	NA
0-24F	Computer Maintenance Rm and Office	698'-0"	NA	NA	6	3	NA	NA
0-24F	Comp Maint Rm & Office (Below Floor)	697'-0"	2	1	NA	NA	NA	NA
0-24F	Comp Maint Rm & Office (Above Ceiling)	698'-0"	2	1	NA	NA	NA	NA
0-24G	U2 Lower Relay Room	698'-0"	4	2	4	2	NA	NA
0-24G	U-2 Lower Relay Room 2U704	697'-0"	11	6	6	3	NA	NA
	PGCC Halon Panel 2U705	697'-0"	11	6	6	3	NA	NA
	Division II 2U706	697'-0"	11	6	6	3	NA	NA
	2U731	697'-0"	10	5	6	3	NA	NA
	2U732	697'-0"	11	6	6	3	NA	NA

TABLE 3.7.3.8-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA	ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
0-24J	South Cable Chase	698'-0"	1	1	NA	NA	NA	NA
0-24L	Center Cable Chase	698'-0"	1	1	NA	NA	NA	NA
0-24M	North Cable Chase	698'-0"	1	1	NA	NA	NA	NA
0-25A	U-2 Lower Cable Spreading Room	714'-0"	20	10	6	3	NA	NA
0-25B	South Cable Chase	714'-0"	1	1	NA	NA	NA	NA
0-25C	Center Cable Chase	714'-0"	1	1	NA	NA	NA	NA
0-25D	North Cable Chase	714'-0"	1	1	NA	NA	NA	NA
0-25E	U-1 Lower Cable Spreading Room	714'-0"	26	13	5	3	NA	NA
0-25E	U-1 Lower Cable Spreading Room Elevator Lobby	714'-0"	NA	NA	1	1	NA	NA
0-26A	Copy Room	729'-1"	NA	NA	1	1	NA	NA
0-26B	South Cable Chase	729'-1"	NA	NA	1	1	NA	NA
0-26C	Center Cable Chase	729'-1"	NA	NA	1	1	NA	NA
0-26D	North Cable Chase	729'-1"	NA	NA	1	1	NA	NA
0-26E	Locker Room	729'-1"	NA	NA	1	1	NA	NA
0-26F	Vestibule Elevator Lobby	729'-1"	NA	NA	1	1	NA	NA
0-26F	Vestibule (Under Floor)	728'-1"	NA	NA	1	1	NA	NA
0-26G	Shift Office	729'-1"	NA	NA	1	1	NA	NA
0-26G	Shift Office (Under Floor)	728'-1"	NA	NA	2	1	NA	NA
0-26H	Control Room (Under Floor Unit 1)	728'-1"	NA	NA	15	8	NA	NA
0-26H	Control Room (Under Floor Unit 2)	728'-1"	NA	NA	12	6	NA	NA
0-26H	Control Room	729'-1"	NA	NA	10	5	NA	NA
0-26H	Control Room (Above Ceiling)	729'-1"	NA	NA	9	5	NA	NA
0-26I	Operational Support Center	729'-1"	NA	NA	1	1	NA	NA
0-26I	Operational Support Center (Under Floor)	728'-1"	NA	NA	2	1	NA	NA
0-26J	Vestibule	729'-1"	NA	NA	1	1	NA	NA
0-26J	Vestibule (Under Floor)	728'-1"	NA	NA	1	1	NA	NA
0-26K	Technical Support Center	741'-1"	NA	NA	10	5	NA	NA
0-26K	Technical Support Center Elevator Lobby	741'-1"	NA	NA	1	1	NA	NA
0-26K	Technical Support Center (Above Ceiling)	741'-1"	NA	NA	5	3	NA	NA
0-26L	Conference Room	741'-1"	NA	NA	6	3	NA	NA
0-26L	Conference Room (Above Ceiling)	741'-1"	NA	NA	2	1	NA	NA
0-26M	U-1 TSC Soffit	729'-1"	NA	NA	2	1	NA	NA
0-26M	U-1 TSC Soffit	741'-1"	NA	NA	2	1	NA	NA
0-26N	U-1 Control Room Soffit	741'-1"	NA	NA	2	1	NA	NA
0-26P	U-2 Control Room Soffit	741'-1"	NA	NA	2	1	NA	NA
0-26R	U-2 TSC Soffit	729'-1"	NA	NA	2	1	NA	NA
0-26R	U-2 TSC Soffit	741'-1"	NA	NA	2	1	NA	NA

TABLE 3.7.3.8-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			INSTRUMENT OPERABLE						
FIRE ZONE	ROOM OR AREA	ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC		
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.	
0-26S	South Cable Chase	741'-1"	1	1	NA	NA	NA	NA	
0-26T	Center Cable Chase	741'-1"	1	1	NA	NA	NA	NA	
0-26V	North Cable Chase	741'-1"	1	1	NA	NA	NA	NA	
0-27A	U-2 Upper Relay Room	754'-0"	4	2	3	2	NA	NA	
0-27A	U-2 Upper Relay Room	2U700	753'-0"	11	6	6	3	NA	NA
	PGCC Halon Panel	2U701	753'-0"	11	6	6	3	NA	NA
	Division I	2U702	753'-0"	11	6	6	3	NA	NA
		2U703	753'-0"	11	6	6	3	NA	NA
		2U730	753'-0"	11	6	6	3	NA	NA
0-27B	U-2 Upper Cable Spreading Room	753'-0"	24	12	5	3	NA	NA	
0-27C	U-1 Upper Cable Spreading Room	753'-0"	27	14	8	4	NA	NA	
0-27C	U-1 Upper Cable Spreading Room (Under Floor)	753'-0"	4	2	NA	NA	NA	NA	
0-27C	U-1 Upper Cable Spreading Room Elevator Lobby	754'-0"	NA	NA	1	1	NA	NA	
0-27D	Electrician's Office	754'-0"	2	1	1	1	NA	NA	
0-27E	U-1 Upper Relay Room	754'-0"	4	2	2	1	NA	NA	
0-27F	South Cable Chase	754'-0"	1	1	NA	NA	NA	NA	
0-27G	Center Cable Chase	754'-0"	1	1	NA	NA	NA	NA	
0-27H	North Cable Chase	754'-0"	1	1	NA	NA	NA	NA	
0-28A-I	Equipment Room	771'-0"	NA	NA	1	1	NA	NA	
0-28A-II	Equipment Room	771'-0"	NA	NA	3	2	NA	NA	
0-28B-I	Equipment Room	771'-0"	NA	NA	1	1	NA	NA	
0-28B-II	Equipment Room	771'-0"	NA	NA	2	1	NA	NA	
0-28B-II	Equipment Room Elevator Lobby	771'-0"	NA	NA	1	1	NA	NA	
0-28C	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28D	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28E	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28F	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28G	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28H	Repair Shop	771'-0"	NA	NA	2	1	NA	NA	
0-28I	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28J	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28K	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28L	Battery Room	771'-0"	NA	NA	1	1	NA	NA	
0-28M	Battery Room	771'-0"	NA	NA	1	1	NA	NA	

TABLE 3.7.3.8-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA	ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
0-28N	Battery Room	771'-0"	NA	NA	1	1	NA	NA
0-28P	South Cable Chase	771'-0"	1	1	NA	NA	NA	NA
0-28Q	Center Cable Chase	771'-0"	1	1	NA	NA	NA	NA
0-28R	North Cable Chase	771'-0"	1	1	NA	NA	NA	NA
0-28T	Battery Room	771'-0"	NA	NA	1	1	NA	NA
0-29A	Elevator Vestibule	783'-0"	NA	NA	1	1	NA	NA
0-29B	H&V Equipment Room	783'-0"	NA	NA	10	5	NA	NA
0-30A	HVAC Equipment Room	806'-0"	NA	NA	19	10	NA	NA
0-30A	Freight Elevator Lobby	806'-0"	NA	NA	1	1	NA	NA
0-30A	CREOASS 0F125A High Temp. Alarm	806'-0"	7	4	NA	NA	NA	NA
0-30A	CREOASS DS-091	806'-0"	7	4	NA	NA	NA	NA
0-30A	CREOASS 0F125B High Temp. Alarm	806'-0"	7	4	NA	NA	NA	NA
0-30A	CREOASS DS-092	806'-0"	7	4	NA	NA	NA	NA
0-30A	SGTS - 0F169A High Temp. Alarm	806'-0"	1	1	NA	NA	NA	NA
0-30A	SGTS - DS-093	806'-0"	1	1	NA	NA	NA	NA
0-30A	SGTS - 0F169B High Temp. Alarm	806'-0"	1	1	NA	NA	NA	NA
0-30A	SGTS - DS-094	806'-0"	1	1	NA	NA	NA	NA
b. Reactor Building								
2-1A	Core Spray Pump Room	645'-0"	NA	NA	8	4	NA	NA
2-1B	Core Spray Pump Room	645'-0"	NA	NA	6	3	NA	NA
2-1B	Elevator Lobby	645'-0"	NA	NA	1	1	NA	NA
2-1C	HPCI Pump Room	645'-0"	2	1	NA	NA	7	4
2-1D	RCIC Pump Room	645'-0"	2	1	NA	NA	5	3
2-1E	RHR Pump Room	645'-0"	NA	NA	NA	NA	13	7
2-1F	RHR Pump Room	645'-0"	NA	NA	NA	NA	15	8
2-1G	Sump Room	645'-0"	NA	NA	2	1	NA	NA
2-1I	Stairwell 202	645'-818"	NA	NA	2	1	NA	NA
2-2A	Access Area and Remote Shutdown Panel Room	670'-0"	NA	NA	5	3	NA	NA
2-2A	Elevator Lobby	670'-0"	NA	NA	1	1	NA	NA
2-2B	Core Spray Pump Room	670'-0"	NA	NA	11	6	NA	NA
2-3A	Access Area	683'-0"	NA	NA	4	2	NA	NA
2-3A	Access Area Elevator Lobby	683'-0"	NA	NA	1	1	NA	NA
2-3B-N	Equipment Removal Area - North	683'-0"	NA	NA	13	7	NA	NA
2-3B-S	Equipment Removal Area - South	683'-0"	NA	NA	1	1	NA	NA
2-3B-W	Equipment Removal Area - Wraparound	683'-0"	NA	NA	2	1	NA	NA
2-3C-N	Equipment Access Area - North	683'-0"	NA	NA	NA	NA	4	2

TABLE 3.7.3.8-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA	ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
2-3C-S	Equipment Access Area - South	683'-0"	NA	NA	NA	NA	4	2
2-3C-W	Equipment Access Area - Wraparound	683'-0"	NA	NA	NA	NA	5	3
2-4A-N	Containment Access Area - North	719'-0"	NA	NA	11	6	3	2
2-4A-S	Containment Access Area - South	719'-0"	NA	NA	10	5	NA	NA
2-4A-S	Containment Access Area Elevator Lobby	719'-0"	NA	NA	1	1	NA	NA
2-4A-W	Containment Access Area - Wraparound	719'-0"	NA	NA	5	3	NA	NA
2-4B	Pipe Penetration Room	719'-1"	NA	NA	1	1	NA	NA
2-4C	Switchgear Room	719'-1"	NA	NA	2	1	NA	NA
2-4D	Switchgear Room	719'-1"	NA	NA	2	1	NA	NA
2-4G	Main Steam Pipeway	719'-1"	NA	NA	NA	NA	4*	2
2-4G	Exhaust Fan Room	799'-0"	NA	NA	NA	NA	2	1
2-5A-N	Standby Control Systems Area	749'-0"	NA	NA	16	8	7	4
2-5A-S	General Access Area - South	749'-0"	NA	NA	5	3	2	1
2-5A-S	General Access Area Elevator Lobby	749'-0"	NA	NA	1	1	NA	NA
2-5A-W	Access Corridor - Wraparound	749'-0"	NA	NA	3	2	2	1
2-5B	Valve Access Area	761'-10"	NA	NA	NA	NA	4	2
2-5C	RWCU Backwash Tank	749'-1"	NA	NA	NA	NA	1	1
2-5D	RWCU Pumps & Heat Exchangers	749'-1"	NA	NA	NA	NA	8	4
2-5E	Penetration Room	749'-1"	NA	NA	NA	NA	2	1
2-5F	Load Center Room	749'-1"	NA	NA	2	1	NA	NA
2-5G	Load Center Room	749'-1"	NA	NA	2	1	NA	NA
2-5H	Instrument Repair Room	749'-1"	NA	NA	2	1	NA	NA
2-6A	Access Area	779'-1"	NA	NA	11	6	NA	NA
2-6B	Load Center Room	779'-1"	NA	NA	4	2	NA	NA
2-6C	Electrical Equipment Room	779'-1"	NA	NA	2	1	NA	NA
2-6D	H&V Equipment Room	779'-1"	NA	NA	12	6	NA	NA
2-6E	Hatch and Laydown Area	779'-1"	NA	NA	2	1	NA	NA
2-7A	H&V Fan & Filter Rooms	799'-1"	NA	NA	14	7	NA	NA
2-7A	HVAC Filter 2F257A High Temp. Alarm	799'-0"	7	4	NA	NA	NA	NA
2-7A	HVAC Filter 2F257A DS-281	799'-0"	7	4	NA	NA	NA	NA
2-7A	HVAC Filter 2F257B High Temp. Alarm	799'-0"	7	4	NA	NA	NA	NA
2-7A	HVAC Filter 2F257B DS-282	799'-0"	7	4	NA	NA	NA	NA
2-7A	HVAC Filter 2F217A High Temp. Alarm	799'-0"	5	3	NA	NA	NA	NA
2-7A	HVAC Filter 2F217A DS-283	799'-0"	5	3	NA	NA	NA	NA
2-7A	HVAC Filter 2F217B High Temp. Alarm	799'-0"	5	3	NA	NA	NA	NA

* Inaccessible

TABLE 3.7.3.8-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA	ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
2-7A	HVAC Filter 2F217B DS-284	799'-0"	5	3	NA	NA	NA	NA
0-6G	Surge Tank Vault	779'-4"	NA	NA	2	1	NA	NA
0-8A	Refueling Floor	818'-1"	NA	NA	NA	NA	60	30
0-8A	Refueling Floor Elevators	818'-1"	NA	NA	2	1	NA	NA
c.	ESW Pumphouse							
0-51	Pump Room	685'-6"	NA	NA	6	3	NA	NA
0-52	Pump Room	685'-6"	NA	NA	6	3	NA	NA
c.	ESW Pumphouse							
0-51	Pump Room	685'-6"	NA	NA	6	3	NA	NA
0-52	Pump Room	685'-6"	NA	NA	6	3	NA	NA
d.	Diesel Generator Building		HEAT		INFRA-RED		PHOTO-ELECTRIC	
0-41A	Diesel Generator "A" Bay	660'-0" & 677'-0"	22	11	2	1	15	8
		710'-9"	N/A	N/A	N/A	N/A	8	4
0-41B	Diesel Generator "B" Bay	660'-0" & 677'-0"	23	12	2	1	15	8
		710'-9"	N/A	N/A	N/A	N/A	9	5
0-41C	Diesel Generator "C" Bay	660'-0" & 677'-0"	22	11	2	1	15	8
		710'-9"	N/A	N/A	N/A	N/A	8	4
0-41D	Diesel Generator "D" Bay	660'-0" & 677'-0"	22	11	2	1	15	8
		710'-9"	N/A	N/A	N/A	N/A	8	4
e.	Diesel Generator E Building		HEAT		INFRA-RED		IONIZATION	
0-41E	Diesel Generator Rooms	656'-6" &	1	1	NA	NA	21	11
		675'-6" &	NA	NA	6	3	3	2
		708'-0"	NA	NA	4	2	NA	NA
f.	Outside Area		HEAT		IONIZATION		PHOTO-ELECTRIC	
0-00	Startup Transformer (0X103) DS-014	NA	10	5	NA	NA	NA	NA
0-00	Startup Transformer (0X104) DS-015	NA	12	6	NA	NA	NA	NA
0-00	ESS Transformer – DS-016							
	0X201	NA	6	3	NA	NA	NA	NA
	0X 213	NA	6	3	NA	NA	NA	NA
0-00	ESS Transformer – DS-017							
	0X203	NA	6	3	NA	NA	NA	NA
	0X211	NA	6	3	NA	NA	NA	NA

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SSS MANUAL

Manual Name: TRM1

Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 1

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TEXT B3.1.4	0	11/19/2002	
Title: REACTIVITY CONTROL SYSTEMS BASES CONTROL ROD SCRAM ACCUMULATORS INSTRUMENTATION AND CHECK VALVE			
TEXT B3.2.1	0	11/19/2002	
Title: CORE OPERATING LIMITS BASES CORE OPERATING LIMITS REPORT (COLR)			
TEXT B3.3.1	0	11/19/2002	
Title: INSTRUMENTATION BASES RADIATION MONITORING INSTRUMENTATION			
TEXT B3.3.2	0	11/19/2002	
Title: INSTRUMENTATION BASES SEISMIC MONITORING INSTRUMENTATION			
TEXT B3.3.3	1	02/04/2005	
Title: INSTRUMENTATION BASES METEOROLOGICAL MONITORING INSTRUMENTATION			
TEXT B3.3.4	1	07/06/2005	
Title: INSTRUMENTATION BASES TRM POST ACCIDENT MONITORING (PAM) INSTRUMENTATION			

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TEXT B3.3.5 0 11/19/2002

Title: INSTRUMENTATION BASES THIS PAGE INTENTIONALLY LEFT BLANK

TEXT B3.3.6 2 12/14/2004

Title: INSTRUMENTATION BASES TRM ISOLATION ACTUATION INSTRUMENTATION

TEXT B3.3.7 0 11/19/2002

Title: INSTRUMENTATION BASES MAIN TURBINE OVERSPEED PROTECTION SYSTEM

TEXT B3.3.8 1 10/22/2003

Title: INSTRUMENTATION BASES TRM REACTOR PROTECTION SYSTEM (RPS) INSTRUMENTATION

TEXT B3.3.9 1 11/22/2004

Title: INSTRUMENTATION BASES LPRM UPSCALE ALARM INSTRUMENTATION

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Title: INSTRUMENTATION BASES REACTOR RECIRCULATION PUMP MG SET STOPS

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Title: REACTOR COOLANT SYSTEM BASES REACTOR COOLANT SYSTEM CHEMISTRY

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Title: REACTOR COOLANT SYSTEM BASES STRUCTURAL INTEGRITY

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Title: REACTOR COOLANT SYSTEM BASES HIGH/LOW PRESSURE INTERFACE LEAKAGE MONITOR

TEXT B3.4.4 0 11/19/2002

Title: REACTOR COOLANT SYSTEM BASES REACTOR RECIRCULATION FLOW AND ROD LINE LIMIT

TEXT B3.4.5 0 11/19/2002

Title: REACTOR COOLANT SYSTEM BASES REACTOR VESSEL MATERIALS

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TEXT B3.5.1 0 11/19/2002

Title: ECCS AND RCIC BASES ADS MANUAL INHIBIT

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Title: ECCS AND RCIC BASES ECCS AND RCIC SYSTEM MONITORING INSTRUMENTATION

TEXT B3.5.3 0 11/19/2002

Title: ECCS AND RCIC BASES LONG TERM NITROGEN SUPPLY TO ADS

TEXT B3.6.1 0 11/19/2002

Title: CONTAINMENT BASES VENTING OR PURGING

TEXT B3.6.2 0 11/19/2002

Title: CONTAINMENT BASES SUPPRESSION CHAMBER-TO-DRYWELL VACUUM BREAKER POSITION INDICATION

TEXT B3.6.3 0 11/19/2002

Title: CONTAINMENT BASES SUPPRESSION POOL ALARM INSTRUMENTATION

TEXT B3.6.4 1 12/14/2004

Title: CONTAINMENT BASES PRIMARY CONTAINMENT CLOSED SYSTEM BOUNDARIES

TEXT B3.7.1 0 11/19/2002

Title: PLANT SYSTEMS BASES EMERGENCY SERVICE WATER SYSTEM (SHUTDOWN)

TEXT B3.7.2 0 11/19/2002

Title: PLANT SYSTEMS BASES ULTIMATE HEAT SINK (UHS) GROUND WATER LEVEL

TEXT B3.7.3.1 0 11/19/2002

Title: PLANT SYSTEMS BASES FIRE SUPPRESSION WATER SUPPLY SYSTEM

TEXT B3.7.3.2 0 11/19/2002

Title: PLANT SYSTEMS BASES SPRAY AND SPRINKLER SYSTEMS

TEXT B3.7.3.3 0 11/19/2002

Title: PLANT SYSTEMS BASES CO2 SYSTEMS

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TEXT B3.7.3.5 0 11/19/2002

Title: PLANT SYSTEMS BASES FIRE HOSE STATIONS

TEXT B3.7.3.6 0 11/19/2002

Title: PLANT SYSTEMS BASES YARD FIRE HYDRANTS AND HYDRANT HOSE HOUSES

TEXT B3.7.3.7 0 11/19/2002

Title: PLANT SYSTEMS BASES FIRE RATED ASSEMBLIES

TEXT B3.7.3.8 1 01/12/2004

Title: PLANT SYSTEMS BASES FIRE DETECTION INSTRUMENTATION

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Title: PLANT SYSTEMS BASES SOLID RADWASTE SYSTEM

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Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS HYDROGEN MONITOR

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TEXT B3.7.5.3 0 11/19/2002

Title: PLANT SYSTEMS BASES LIQUID HOLDUP TANKS

TEXT B3.7.6 1 03/01/2005

Title: PLANT SYSTEMS BASES ESSW PUMPHOUSE VENTILATION

TEXT B3.7.7 0 11/19/2002

Title: PLANT SYSTEMS BASES MAIN CONDENSER OFFGAS PRETREATMENT LOGARITHMIC RADIATION MONITORING INSTRUMENTATION

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Title: PLANT SYSTEMS BASES CONTROL STRUCTURE HVAC

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Title: PLANT SYSTEMS BASES SPENT FUEL STORAGE POOLS

TEXT B3.8.1 1 02/04/2005
Title: ELECTRICAL POWER BASES PRIMARY CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

TEXT B3.8.2.1 0 11/19/2002
Title: ELECTRICAL POWER BASES MOTOR OPERATED VALVES (MOV) THERMAL OVERLOAD PROTECTION - CONTINUOUS

TEXT B3.8.2.2 1 09/17/2004
Title: ELECTRICAL POWER BASES MOTOR OPERATED VALVES (MOV) THERMAL OVERLOAD PROTECTION - AUTOMATIC

TEXT B3.8.3 0 11/19/2002
Title: ELECTRICAL POWER BASES DIESEL GENERATOR (DG) MAINTENANCE ACTIVITIES

TEXT B3.8.4 0 11/19/2002
Title: ELECTRICAL POWER BASES 24 VDC ELECTRICAL POWER SUBSYSTEM

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Title: ELECTRICAL POWER BASES DEGRADED VOLTAGE PROTECTION

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Title: ELECTRICAL POWER BASES EMERGENCY SWITCHGEAR ROOM COOLING

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Title: REFUELING OPERATIONS BASES DECAY TIME

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TEXT B3.10.2	0	11/19/2002
Title: MISCELLANEOUS BASES SHUTDOWN MARGIN TEST RPS INSTRUMENTATION		
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Title: MISCELLANEOUS BASES LEADING EDGE FLOW METER (LEFM)		
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Title: RADIOACTIVE EFFLUENTS BASES LIQUID WASTE TREATMENT SYSTEM		
TEXT B3.11.1.4	0	11/19/2002
Title: RADIOACTIVE EFFLUENTS BASES LIQUID RADWASTE EFFLUENT MONITORING INSTRUMENTATION		
TEXT B3.11.1.5	0	11/19/2002
Title: RADIOACTIVE EFFLUENTS BASES RADIOACTIVE LIQUID PROCESS MONITORING INSTRUMENTATION		
TEXT B3.11.2.1	1	12/14/2004
Title: RADIOACTIVE EFFLUENTS BASES DOSE RATE		
TEXT B3.11.2.2	0	11/19/2002
Title: RADIOACTIVE EFFLUENTS BASES DOSE - NOBLE GASES		
TEXT B3.11.2.3	0	11/19/2002
Title: RADIOACTIVE EFFLUENTS BASES DOSE - IODINE, TRITIUM, AND RADIONUCLIDES IN PARTICULATES FORM		

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TEXT B3.11.2.4 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES GASEOUS RADWASTE TREATMENT SYSTEM

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Title: RADIOACTIVE EFFLUENTS BASES VENTILATION EXHAUST TREATMENT SYSTEM

TEXT B3.11.2.6 1 01/27/2004

Title: RADIOACTIVE EFFLUENTS BASES RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

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Title: RADIOACTIVE EFFLUENTS BASES TOTAL DOSE

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Title: RADIOACTIVE EFFLUENTS BASES MONITORING PROGRAM

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Title: RADIOACTIVE EFFLUENTS BASES LAND USE CENSUS

TEXT B3.11.4.3 0 11/19/2002

Title: RADIOACTIVE EFFLUENTS BASES INTERLABORATORY COMPARISON PROGRAM

TEXT B3.12.1 0 11/19/2002

Title: LOADS CONTROL PROGRAM BASES CRANE TRAVEL-SPENT FUEL STORAGE POOL

TEXT B3.12.2 0 11/19/2002

Title: LOADS CONTROL PROGRAM BASES HEAVY LOADS REQUIREMENTS

TEXT B3.12.3 0 11/19/2002

Title: LOADS CONTROL PROGRAM BASES LIGHT LOADS REQUIREMENTS

TEXT 3.1.1 0 11/18/2002

Title: REACTIVITY CONTROL SYSTEMS ANTICIPATED TRANSIENT WITHOUT SCRAM ALTERNATE ROD INJECTION (ATWS-ARI) INSTRUMENTATION

TEXT 4.1 0 08/31/1998

Title: ADMINISTRATIVE CONTROLS ORGANIZATION

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TEXT 4.2 0 08/31/1998
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TRM1 text LOES
8/3/05

3.7.3 Fire Protection

3.7.3.3 CO₂ Systems

TRO 3.7.3.3 The low pressure CO₂ systems shown in Table 3.7.3.3-1 shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the CO₂ systems is required to be OPERABLE.

ACTIONS

NOTE

1. Separate condition entry is allowed for each system.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more of the required CO ₂ systems inoperable	A.1 Enter the Condition referenced in Table 3.7.3.3-1 for the CO ₂ systems	Immediately
B. As required by Required Action A.1 and referenced in Table 3.7.3.3-1	B.1 Establish a continuous fire watch with backup fire suppression equipment for the affected area	1 hour
C. As required by Required Action A.1 and referenced in Table 3.7.3.3-1	C.1 Establish an hourly fire watch patrol for the affected area	1 hour

Table 3.7.3.3-1 (Page 1 of 2)
Low Pressure CO₂ Systems

SYS. #	DESCRIPTION	FIRE ZONE	CONDITION REFERENCED FROM REQUIRED ACTION A.1
1.07	Unit 1 Control Room Underfloor	0-26F, 0-26G, 0-26H	B
1.08	Unit 2 Control Room Underfloor	0-26H, 0-26I, 0-26J	B
1.09	Unit 1 UPS Room & Underfloor	0-24C	C
1.11	Computer Room & above ceiling	0-24E	C
1.12	Computer Maintenance Room	0-24F	C
1.13	Unit 1 Lower Relay Room	0-24D	B
1.15	Comp. Mnt. Rm./Corr. Above ceiling	0-24B, 0-24F	C
1.16	Comp. Mnt. Rm./Corr. Underfloor	0-24B, 0-24F	C
1.18	TSC Room C-411/413 Soffit	0-26M	B
1.19	Unit 1 Control Room Soffit	0-26N	B
1.20	Unit 2 Control Room Soffit	0-26P	B
1.21	North Cable Chase (698'-783')	0-24M, 0-25D, 0-26V, 0-27H, 0-28R	B
1.22	Center Cable Chase (698'- 783')	0-24L, 0-25C, 0-26T, 0-27G, 0-28Q	B
1.23	South Cable Chase (698'-783')	0-24J, 0-25B, 0-26S, 0-27F, 0-28P	B
1.24	North Cable Chase (729')	0-26D	B
1.25	Center Cable Chase (729')	0-26C	B
1.26	South Cable Chase (729')	0-26B	B
1.27	Unit 1 Upper Relay Room	0-27E	B

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TECHNICAL REQUIREMENT SURVEILLANCE

SURVEILLANCE	FREQUENCY
NOTE When a detector is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and required Actions may be delayed for up to 15 minutes.	N/A
TRS 3.7.3.8.1 Perform CHANNEL FUNCTIONAL TEST on accessible fire detection instruments.	12 months
TRS 3.7.3.8.2 Verify that the supervised circuits supervision associated with the detector alarms of each of the fire detection instruments listed in Table 3.7.3.8-1 are OPERABLE.	12 months
TRS 3.7.3.8.3 Perform CHANNEL FUNCTIONAL TEST on inaccessible fire detection instruments.	Prior to startup from each COLD SHUTDOWN exceeding 48 hours unless performed in the previous 12 months

TABLE 3.7.3.8-1

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			ELEV.	INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA	HEAT		IONIZATION		PHOTO ELECTRIC			
		TOTAL		MIN.	TOTAL	MIN.	TOTAL	MIN.	
a.	Control Building								
0-21A	Common Equipment Room Elevator Lobby	656'-0"	NA	NA	1	1	NA	NA	
0-22A	Chem Lab 0F135 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA	
	Chem Lab DS-021	687'-10"	2	1	NA	NA	NA	NA	
	Chem Lab 0F138 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA	
	Chem Lab DS-022	687'-10"	2	1	NA	NA	NA	NA	
	Chem Lab 0F141 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA	
	Chem Lab DS-023	687'-10"	2	1	NA	NA	NA	NA	
	Chem Lab 0F144 High Temp. Alarm	687'-10"	2	1	NA	NA	NA	NA	
	Chem Lab DS-024	687'-10"	2	1	NA	NA	NA	NA	
0-22A	Above Ceiling/Filter Area	687'-8"	NA	NA	10	5	NA	NA	
0-22A	Elevator Lobby	676'-0"	NA	NA	1	1	NA	NA	
0-23	Egress Corridor to South Stairwell	686'-6"	NA	NA	1	1	NA	NA	
0-24B	Corridor	698'-0"	NA	NA	5	3	NA	NA	
0-24B	Corridor (Under Floor)	697'-0"	2	1	NA	NA	NA	NA	
0-24B	Corridor (Above Ceiling)	698'-0"	4	2	NA	NA	NA	NA	
0-24B	Corridor Elevator Lobby	698'-0"	NA	NA	1	1	NA	NA	
0-24C	UPS Panel Room U-1	698'-0"	4	2	2	1	NA	NA	
0-24D	U-1 Lower Relay Room 1U704	697'-0"	11	6	6	3	NA	NA	
	PGCC Halon Panel Division II 1U705	697'-0"	11	6	6	3	NA	NA	
	1U706	697'-0"	11	6	6	3	NA	NA	
	1U731	697'-0"	10	5	6	3	NA	NA	
	1U732	697'-0"	11	6	6	3	NA	NA	
0-24D	U-1 Lower Relay Room	698'-0"	4	2	4	2	NA	NA	
0-24E	Computer Room	698'-0"	NA	NA	6	3	NA	NA	
0-24E	Computer Room (Above Ceiling)	698'-0"	12	6	4	2	NA	NA	
0-24E	Computer Room 1U720	697'-0"	NA	NA	4	2	NA	NA	
	PGCC Underfloor 1U722	697'-0"	NA	NA	4	2	NA	NA	
	1U724	697'-0"	NA	NA	4	2	NA	NA	
	1U726	697'-0"	NA	NA	4	2	NA	NA	

TABLE 3.7.3.8-1

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION				INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA		ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC	
				TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
0-27E	U-1 Upper Relay Room	1U700	753'-0"	11	6	6	3	NA	NA
	PGCC Halon Panel Division	1U701	753'-0"	11	6	6	3	NA	NA
		1U702	753'-0"	11	6	6	3	NA	NA
		1U703	753'-0"	11	6	6	3	NA	NA
		1U730	753'-0"	11	6	6	3	NA	NA
0-27F	South Cable Chase		754'-0"	1	1	NA	NA	NA	NA
0-27G	Center Cable Chase		754'-0"	1	1	NA	NA	NA	NA
0-27H	North Cable Chase		754'-0"	1	1	NA	NA	NA	NA
0-28A-I	Equipment Room		771'-0"	NA	NA	1	1	NA	NA
0-28A-II	Equipment Room		771'-0"	NA	NA	3	2	NA	NA
0-28B-I	Equipment Room		771'-0"	NA	NA	1	1	NA	NA
0-28B-II	Equipment Room		771'-0"	NA	NA	2	1	NA	NA
0-28B-II	Equipment Room Elevator Lobby		771'-0"	NA	NA	1	1	NA	NA
0-28C	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28D	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28E	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28F	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28G	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28H	Repair Shop		771'-0"	NA	NA	2	1	NA	NA
0-28I	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28J	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28K	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28L	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28M	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28N	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-28P	South Cable Chase		771'-0"	1	1	NA	NA	NA	NA
0-28Q	Center Cable Chase		771'-0"	1	1	NA	NA	NA	NA
0-28R	North Cable Chase		771'-0"	1	1	NA	NA	NA	NA
0-28T	Battery Room		771'-0"	NA	NA	1	1	NA	NA
0-29A	Elevator Vestibule		783'-0"	NA	NA	1	1	NA	NA
0-29B	H&V Equipment Room		783'-0"	NA	NA	10	5	NA	NA

TABLE 3.7.3.8-1

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION		ELEV.	INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA		HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
1-3B-S	Equipment Removal Area - South	683'-0"	NA	NA	1	1	NA	NA
1-3B-W	Equipment Removal Area - Wraparound	683'-0"	NA	NA	2	1	NA	NA
1-3C-N	Equipment Access Area - North	683'-0"	NA	NA	NA	NA	4	2
1-3C-S	Equipment Access Area - South	683'-0"	NA	NA	NA	NA	4	2
1-3C-W	Equipment Access Area - Wraparound	683'-0"	NA	NA	NA	NA	5	3
1-4A-N	Containment Access Area - North	719'-0"	NA	NA	11	6	4	2
1-4A-N	Containment Access Area Elevator Lobby	719'-0"	NA	NA	1	1	NA	NA
1-4A-S	Containment Access Area - South	719'-0"	NA	NA	10	5	NA	NA
1-4A-W	Containment Access Area - Wraparound	719'-0"	NA	NA	6	3	NA	NA
1-4B	Pipe Penetration Room	719'-1"	NA	NA	1	1	NA	NA
1-4C	Switchgear Room	719'-1"	NA	NA	2	1	NA	NA
1-4D	Switchgear Room	719'-1"	NA	NA	2	1	NA	NA
1-4G	Main Steam Pipeway	719'-1"	NA	NA	NA	NA	4	2
1-4G	Exhaust Fan Room	719'-1"	NA	NA	NA	NA	2	1
1-5A-N	General Access Area - North	749'-1"	NA	NA	5	3	1	1
1-5A-N	General Access Area Elevator Lobby	749'-1"	NA	NA	1	1	NA	NA
1-5A-S	SLC / Chiller Area - South	749'-1"	NA	NA	15	8	7	4
1-5A-W	Access Corridor - Wraparound	749'-1"	NA	NA	7	4	NA	NA
1-5B	Valve Access Area	761'-10"	NA	NA	NA	NA	2	1
1-5D	RWCU Pumps & Heat Exchangers	749'-1"	NA	NA	NA	NA	10	5
1-5E	Penetration Room	749'-1"	NA	NA	NA	NA	2	1
1-5F	Load Center Room	749'-1"	NA	NA	2	1	NA	NA
1-5G	Load Center Room	749'-1"	NA	NA	2	1	NA	NA
1-5H	Instrument Repair Shop/Sample Station	749'-1"	NA	NA	1	1	NA	NA
1-6A	Access Area	779'-1"	NA	NA	9	5	NA	NA
1-6A	Access Area Elevator Lobby	779'-1"	NA	NA	1	1	NA	NA
1-6B	Load Center Room	779'-1"	NA	NA	4	2	NA	NA
1-6C	Electrical Equipment Room	779'-1"	NA	NA	2	1	NA	NA
1-6D	H&V Equipment Room	779'-1"	NA	NA	12	6	NA	NA

TABLE 3.7.3.8-1

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION			INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA	ELEV.	HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
1-6E	Recirculation Fans Area	779'-1"	NA	NA	2	1	NA	NA
1-6I	Fuel Pooling Holding Pump Room	779'-1"	NA	NA	NA	NA	2	1
1-7A	H&V Fan & Filter Rooms	799'-1"	NA	NA	15	8	NA	NA
1-7A	HVAC Filter 1F257A High Temp. Alarm	799'-1"	7	4	NA	NA	NA	NA
1-7A	HVAC Filter 1F257A DS-181	799'-1"	7	4	NA	NA	NA	NA
1-7A	HVAC Filter 1F257B High Temp. Alarm	799'-1"	7	4	NA	NA	NA	NA
1-7A	HVAC Filter 1F257B DS-182	799'-1"	7	4	NA	NA	NA	NA
1-7A	HVAC Filter 1F217A High Temp. Alarm	799'-1"	5	3	NA	NA	NA	NA
1-7A	HVAC Filter 1F217A DS-183	799'-1"	5	3	NA	NA	NA	NA
1-7A	HVAC Filter 1F217B High Temp. Alarm	799'-1"	5	3	NA	NA	NA	NA
1-7A	HVAC Filter 1F217B DS-184	799'-1"	5	3	NA	NA	NA	NA
c.	ESW Pumphouse							
0-51	Pump Room	685'-6"	NA	NA	6	3	NA	NA
0-52	Pump Room	685'-6"	NA	NA	6	3	NA	NA
d.	Diesel Generator Building		HEAT		INFRA-RED		PHOTO-ELECTRIC	
0-41A	Diesel Generator "A" Bay	660'-0" & 677'-0"	22	11	2	1	15	8
		710' - 9"	N/A	N/A	N/A	N/A	8	4
0-41B	Diesel Generator "B" Bay	660'-0" & 677'-0"	23	12	2	1	15	8
		710' - 9"	N/A	N/A	N/A	N/A	9	5
0-41C	Diesel Generator "C" Bay	660'-0" & 677'-0"	22	11	2	1	15	8
		710'-9"	N/A	N/A	N/A	N/A	8	4
0-41D	Diesel Generator "D" Bay	660'-0" & 677'-0"	22	11	2	1	15	8
		710'9"	N/A	N/A	N/A	N/A	8	4
e.	Diesel Generator E Building		HEAT		INFRA-RED		IONIZATION	
0-41E	Diesel Generator Rooms	656'-6" &	1	1	NA	NA	21	11
		675'-6" &	NA	NA	6	3	3	2
		708'-0"	NA	NA	4	2	NA	NA

TABLE 3.7.3.8-1

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION		ELEV.	INSTRUMENT OPERABLE					
FIRE ZONE	ROOM OR AREA		HEAT		IONIZATION		PHOTO ELECTRIC	
			TOTAL	MIN.	TOTAL	MIN.	TOTAL	MIN.
<i>f.</i>	<i>Outside Area</i>		<i>HEAT</i>		<i>IONIZATION</i>		<i>PHOTO-ELECTRIC</i>	
0-00	Startup Transformer (OX103) DS-014	NA	10	5	NA	NA	NA	NA
0-00	Startup Transformer (OX104) DS-015	NA	12	6	NA	NA	NA	NA
0-00	ESS Transformer – DS-016							
	OX201	NA	6	3	NA	NA	NA	NA
	OX 213	NA	6	3	NA	NA	NA	NA
0-00	ESS Transformer – DS-017							
	OX203	NA	6	3	NA	NA	NA	NA
	OX211	NA	6	3	NA	NA	NA	NA