

ATTACHMENT 3

PROPOSED TECHNICAL SPECIFICATION

Marked-up Technical Specifications Pages,

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TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM
INSTRUMENTATION TRIP SETPOINTS

<u>FUNCTIONAL UNIT</u>	<u>TRIP SETPOINT</u>	<u>ALLOWABLE VALUE#</u>
6. Auxiliary Feedwater (Continued)		
d. Bus Stripping	See Item 7. below for all Bus Stripping Setpoints and Allowable Values.	
e. Trip of All Main Feedwater Pump Breakers.	N.A.	N.A.
7. Loss of Power		
a. 4.16 kV Busses A and B (Loss of Voltage)	N.A.	N.A.
b. 480V Load Centers (Instantaneous Relays) Degraded Voltage		
<u>Load Center</u>		
3A	430 418V±5V (10 sec ± 1 sec delay)	[]
3B	438 423V±5V (10 sec ± 1 sec delay)	[]
3C	434 429V±5V (10 sec ± 1 sec delay)	[]
3D	434 429V±5V (10 sec ± 1 sec delay)	[]
4A	435 407V±5V (10 sec ± 1 sec delay)	[]
4B	434 423V±5V (10 sec ± 1 sec delay)	[]
4C	434 419V±5V (10 sec ± 1 sec delay)	[]
4D	430 404V±5V (10 sec ± 1 sec delay)	[]
Coincident with: Safety Injection and	See Item 1. above for all Safety Injection Trip Setpoints and Allowable Values.	
Diesel Generator Breaker Open	N.A.	N.A.

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TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM
INSTRUMENTATION TRIP SETPOINTS

<u>FUNCTIONAL UNIT</u>	<u>TRIP SETPOINT</u>	<u>ALLOWABLE VALUE#</u>
7. Loss of Power (Continued)		
c. 480V Load Centers (Inverse Time Relays) Degraded Voltage		
<u>Load Center</u>		
3A	424 -416V±5V(60 sec ±30 sec delay)	[]
3B	427 426V±5V(60 sec ±30 sec delay)	[]
3C	437 436V±5V(60 sec ±30 sec delay)	[]
3D	435 437V±5V(60 sec ±30 sec delay)	[]
4A	430 424V±5V(60 sec ±30 sec delay)	[]
4B	436 422V±5V(60 sec ±30 sec delay)	[]
4C	434 433V±5V(60 sec ±30 sec delay)	[]
4D	434 432V±5V(60 sec ±30 sec delay)	[]
Coincident with: Diesel Generator Breaker Open	N.A.	N.A.
8. Engineering Safety Features Actuation System Interlocks		
a. Pressurizer Pressure	≤2000 psig	≤[] psig
b. T _{avg} --Low	≥531°F	[]
9. Control Room Ventilation Isolation		
a. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.
b. Safety Injection	See Item 1. above for all Safety Injection Trip Setpoints and Allowable Values.	

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INSTRUMENTATION

FIRE DETECTION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.4 As a minimum, the fire detection instrumentation for each fire detection zone shown in Table 3.3-6 shall be OPERABLE.

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

ACTION:

- a. With any, but not more than one-half the total in any fire zone, Function A fire detection instruments shown in Table 3.3-6 inoperable, restore the inoperable instrument(s) to OPERABLE status within 14 days or within the next 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours (or monitor the containment air temperature at least once per hour at the locations listed in Specification 4.6.1.5).
- b. With more than one-half of the Function A fire detection instruments in any fire zone shown in Table 3.3-6 inoperable, or with any Function B fire detection instruments shown in Table 3.3-6 inoperable, or with any two or more adjacent fire detection instruments shown in Table 3.3-6 inoperable, within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours (or monitor the containment air temperature at least once per hour at the locations listed in Specification 4.6.1.5). 6
- c. With the fire watch patrol not established at the 18 foot level of the turbine area, restore the fire watch patrol within one hour, or prepare and submit a Special Report to the Commission within 30 days.
- d. The provisions of Specifications 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.4.1 Each of the above required fire detection instruments which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months by performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST. Fire detectors which are not accessible during plant operation shall be demonstrated OPERABLE by the performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST during each COLD SHUTDOWN exceeding 24 hours unless performed in the previous 6 months.

4.3.3.4.2 The NFPA Standard 72D supervised circuits supervision associated with the detector alarms of each of the above required fire detection instruments shall be demonstrated OPERABLE at least once per 6 months.

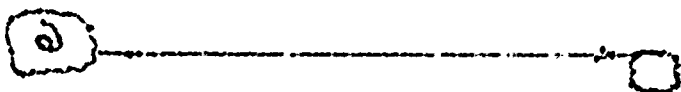


TABLE 3.3-6

FIRE DETECTION INSTRUMENTS
FOR ESSENTIAL EQUIPMENT

INSTRUMENT LOCATION FIRE ZONE AREA	TOTAL NUMBER OF INSTRUMENTS		
	HEAT (x/y)*	FLAME (x/y)	SMOKE (x/y)
4 - Aux. Bldg. Corridor E. 10'			(2/0)
5 - Chem. Drain/Laundry/Shower Tank Room			(2/0)
9 - Laundry/Chemical Drain Tank Room			(1/0)
10 - Pipeway			(11/0)
11 - Unit 3 RHR Heat Exchanger Room			(5/0)
12 - RHR Pump 3A Room			(2/0)
13 - RHR Pump 3B Room			(2/0)
14 - Unit 4 RHR Heat Exchanger Room			(5/0)
15 - RHR Pump 4A Room			(2/0)
16 - RHR Pump 4B Room			(2/0)
19 - Unit 3 W Elect Penet Room			(5/0)
20 - Unit 3 S Elect Penet Room			(11/0)
21 - Instrument Shop			(2/0)
22 - Radioactive Laboratory			(2/0)
25 - Aux. Bldg. Elect. Equipmt. Room	(2/0)	6	(5/0)
26 - Unit 4 N Elect Penet Room			(8/0)
27 - Unit 4 W Elect Penet Room			(6/0)
30 - Unit 4 Piping and Valve Room			(4/0)
40 - Unit 3 Piping and Valve Room			(4/0)
45 - Unit 4 Charging Pump Room	(0/4)		(3/0)
47 - Unit 4 Component Cooling Water Area	(0/4)	(5/2)	
54 - Unit 3 Component Cooling Water Area	(0/4)	(4/2)	
55 - Unit 3 Charging Pump Room	(0/4)		(3/0)
58 - Aux Bldg Corridor, El. 18'			(18/0)
59 - Unit 4 Containment Electrical Penet. Area**			(10/0)
60 - Unit 3 Containment Electrical Penet. Area**			(16/0)
61 - Reactor Control Rod Eqpm Room - Unit 4			(4/0)
62 - Computer Room			(11/0)
63 - Reactor Control Rod Eqpm Room - Unit 3			(4/0)
67 - 4160V Switchgear 4B			(10/0)
68 - 4160V Switchgear 4A			(6/0)
70 - 4160V Switchgear 3B			(10/0)
71 - 4160V Switchgear 3A			(6/0)
72 - Diesel Generator 3B	(0/3)	(1/0)	(1/0)
73 - Diesel Generator 3A	(0/3)	(1/0)	(1/0)
74 - Day Tank Room 3B	(1/1)		
75 - Day Tank Room 3A	(1/1)		
76 - Unit 4 Turbine Lube Oil Reservoir	(1/0)		
79A- North-South Breezeway	(0/6)		(4/0)
81 - Unit 4 Main Transformer	(1/0)		
82 - Unit 4 Aux Transformer Area	(1/0)		
84 - Unit 3 and 4 Aux Feedwater Pump Area (DC Enclosure Bldg.)			(3/0)

25A - SPARE BATTERY ROOM

(2/0)

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52A - SPARE BATTERY ROOM (S/O)

TABLE 3.3-6 (Continued)
FIRE DETECTION INSTRUMENTS
FOR ESSENTIAL EQUIPMENT

<u>INSTRUMENT LOCATION</u>	<u>TOTAL NUMBER OF INSTRUMENTS</u>		
	<u>HEAT</u> <u>(x/y)*</u>	<u>FLAME</u> <u>(x/y)</u>	<u>SMOKE</u> <u>(x/y)</u>
FIRE ZONE AREA			
87 - Unit 3 Aux Transformer Area	(1/0)		
93 - 480V Load Center 4A and 4B			(1/0)
94 - 480V Load Center 4C and 4D			(2/0)
95 - 480V Load Center 3A and 3B			(1/0)
96 - 480V Load Center 3C and 3D			(2/0)
97 - Mechanical Equipment Room			(1/0)
98 - Cable Spreading Room			(16/15)
101- RPI Inverter and MG Sets			(1/0)
102- Battery Rack 4B	(1/0)		
103- Battery Rack 3A	(1/0)		
104- RPI Inverter and MG Sets			(2/0)
106- Control Room	(1/0)		16 → (17/0)
108A- Train A Inverters			(3/4)
108B- Train B Inverters			(4/4)
109- Battery Rack 4A	(1/0)		
110- Battery Rack 3B	(1/0)		
113- Unit 4 Feedwater Platform		(2/0)	
116- Unit 3 Feedwater Platform		(2/0)	
119- Unit 4 Intake Cooling Water Pump Area		(4/0)	
120- Unit 3 Intake Cooling Water Pump Area		(4/0)	
132- Control Room Electrical Chase			(1/0) ← 1/2
133- Diesel Generator 4B	(5/5)	(3/0)	(5/0)
134- 4160V Switchgear 3D Room			(2/0)
135- Diesel Generator 4B Control Panel Room			(2/0)
136- Diesel Generator 4B Fuel Transfer Pump			(2/0)
138- Diesel Generator 4A	(5/5)	(3/0)	(5/0)
139- 4160V Switchgear 4D Room			(2/0)
140- Diesel Generator 4A Control Panel Room			(2/0)
141- Diesel Generator 4A Fuel Transfer Pump			(2/0)
N/A - 18' level of the Turbine Area	(N/A)#	(N/A)#	(N/A)#

TABLE NOTATIONS

- * (x/y): x is number of Function A (early warning fire detection and notification only) instruments.
y is number of Function B (actuation of Fire Suppression Systems and early warning fire detection and notification) instruments.
- ** The fire detection instruments located within the containment are not required to be operable during the performance of Type A Containment Leakage Rate Test.
- # A fire watch patrol shall be established to inspect the 18 foot level of the Turbine Area once each hour.

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5/11

EMERGENCY CORE COOLING SYSTEMS

3/4.5.2 ECCS SUBSYSTEMS - T_{avg} GREATER THAN OR EQUAL TO 350°F

LIMITING CONDITION FOR OPERATION

3.5.2 The following Emergency Core Cooling System (ECCS) equipment and flow paths shall be OPERABLE:

- a. Four OPERABLE Safety Injection (SI) pumps, each capable of being powered from its associated OPERABLE diesel generator[#], with discharge aligned to the RCS cold legs,*
- b. Two OPERABLE RHR heat exchangers,
- c. Two OPERABLE RHR pumps with discharge aligned to the RCS cold legs,
- d. An OPERABLE flow path capable of taking suction from the refueling water storage tank as defined in Specification 3.5.4, and
- e. Two OPERABLE flow paths capable of taking suction from the containment sump.

APPLICABILITY: MODES 1, 2, and 3**.

ACTION:

- a. With any one of the required ECCS components or flow paths inoperable, except for inoperable Safety Injection Pump(s), restore the inoperable component or flow path to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
- b. In the event the ECCS is actuated and injects water in the Reactor Coolant System, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date since January 1, 1990.
- c. With one of the four required Safety Injection pumps inoperable and the opposite unit in MODE 1, 2, or 3, restore the pump to OPERABLE Status within 30 days or be in at least HOT STANDBY within the next 12 hours and in HOT SHUTDOWN within the following 6 hours.***

*Only three OPERABLE Safety Injection (SI) pumps (two associated with the unit and one from the opposite unit), each capable of being powered from its associated OPERABLE diesel generator[#], with discharge aligned to the RCS cold leg are required if the opposite unit is in MODE 4, 5, or 6.

**The provisions of Specifications 3.0.4 and 4.0.4 are not applicable for entry into MODE 3 for the Safety Injection flow paths isolated pursuant to Specification 3.4.9.3 provided that the Safety Injection flow paths are restored to OPERABLE status prior to T_{avg} exceeding 380°F. Safety Injection flow paths may be isolated when T_{avg} is less than 380°F.

***The provisions of Specifications 3.0.4 and 4.0.4 are not applicable.

#Inoperability of the required EDG's does not constitute inoperability of the associated Safety Injection pumps.

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EMERGENCY CORE COOLING SYSTEMS

3/4.5.2 ECCS SUBSYSTEMS - T_{avg} GREATER THAN OR EQUAL TO 350°F

LIMITING CONDITION FOR OPERATION

- d. With two of the four required Safety Injection pumps inoperable and the opposite unit in MODE 1, 2, or 3, restore one of the two inoperable pumps to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 12 hours and in HOT SHUTDOWN within the following 6 hours. This ACTION applies to both units simultaneously.
- e. With one of the three required Safety Injection pumps inoperable and the opposite unit in MODE 4, 5, or 6, restore the pump to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
- f. With a required Safety Injection pump OPERABLE but not capable of being powered from its associated OPERABLE diesel generator, restore the capability within 72 hours or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

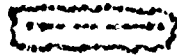


TABLE 3.7-4
FIRE HOSE STATIONS

<u>IDENTIFICATION</u>	<u>LOCATION</u>	<u>FIRE ZONE</u>
HS-03-01	EL. 18' - East of 4160V SWGR Room on Column	88
HS-03-02	EL. 18' - West of 3A Condensate Pump on Pedestal	87
HS-03-03	EL. 18' - Passageway South of SG Feed Pump Room	83
HS-03-04	EL. 30' - East of 480V Load Center on Column	105
HS-03-05	EL. 30' - South End of Mezzanine Deck	105
HS-03-06	EL. 42' - NW End of Turbine Deck	117
HS-03-07	EL. 42' - North of 6A HPFW Heater	117
HS-03-08	EL. 42' - NW Corner of Entrance to Elevator	79
HS-04-01	EL. 18' - South of 4160V SWGR Room on Column	82
HS-04-02	EL. 18' - Passageway South of SG Feed Pump Room	78
HS-04-03	EL. 30' - East of 480V Load Center at Stairway	105
HS-04-04	EL. 30' - South End of Mezzanine Deck	105
HS-04-05	EL. 42' - West End of Turbine Deck	117
HS-04-06	EL. 42' - East Side of Turbine Deck and North of 6A FW Heater	117
HS-04-07	EL. 42' - East Side of Turbine Deck and North of 6B FW Heater	117
HS-04-08	EL. 42' - Southwest Corner of Turbine Deck	117
HS-AB-01	EL. 18' - East-West Passageway at West End	58
HS-AB-02	EL. 18' - East-West Passageway at East End	58
HS-AB-03	EL. 18' - North-South Passageway Outside Unit 3 Charging Pump Room	58
HS-AB-04	EL. 50' - Roof of Unit 3 New Fuel Storage Area	118
HS-AB-05	EL. 50' - Roof of Unit 4 New Fuel Storage Area	118

HS-04-09 EL. 18' - ENTRANCE TO UNIT 4 999
DIESEL GENERATOR BUILDING

42-04-04 90-40-24
DIESEL GENERATOR BUILDING
+ TIME of 3044743 - 181 - 13
PPP

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

shall be maintained within these limits during this test. Within 5 minutes after completing this 24-hour test, perform Specification 4.8.1.1.2.g.4)b);**

- 8) Verifying that the auto-connected loads to each diesel generator do not exceed 2500 kW (Unit 3), 2874 kW (Unit 4);
- 9) Verifying the diesel generator's capability to:
 - a) Synchronize with the offsite power source while the generator is loaded with its emergency loads upon a simulated restoration of offsite power,
 - b) Transfer its loads to the offsite power source, and
 - c) Be restored to its standby status.
- 10) Verifying that the diesel generator operating in a test mode, connected to its bus, a simulated Safety Injection signal overrides the test mode by: (1) returning the diesel generator to standby operation, and (2) automatically energizing the emergency loads with offsite power;
- 11) Verifying that the fuel transfer pump transfers fuel from the fuel storage tank (Unit 3), fuel storage tanks (Unit 4) to the day tanks of each diesel associated with the unit via the installed cross-connection lines;
- 12) Verifying that the automatic load sequence timer is OPERABLE with the interval between each load block within $\pm 10\%$ of its design interval;
- 13) Verifying that the diesel generator lockout relay prevents the diesel generator from starting;
- h. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting all required diesel generators simultaneously and verifying that all required diesel generators provide 60 ± 1.2 Hz frequency and 4160 ± 420 volts in less than or equal to 15 seconds; and
- i. At least once per 10 years by:
 - 1) Draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank.
 - 2) For Unit 4 only, performing a pressure test of those portions of the diesel fuel oil system designed to Section III, subsection ND of the ASME Code in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda.

**If Specification 4.8.1.1.2.g.4)b) is not satisfactorily completed, it is not necessary to repeat the 24-hour test. Instead, the diesel generator may be operated at 2500 kW Unit 3, 2874 kW (Unit 4) for 1 hour or until operating temperature has stabilized and then within 5 minutes repeat Specification 4.8.1.1.2.g.4)b).

between 2300 - 2500

2650 - 2850

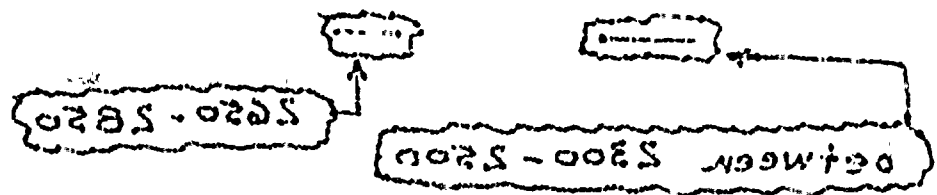


TABLE 3.8-1

APPLICABLE TO UNIT 3 BASED ON UNIT 4 LOAD
CENTERS AND MOTOR CONTROL CENTERS INOPERABLE

ALLOWABLE OUTAGE TIMES

<u>Unit 4</u>	Load Centers and Motor Control Centers Inoperable (Any MODE)			Allowable Outage Times (hours) Unit 3 - MODES 1, 2, 3 or 4		
	With AC Trains 3A, 3B, 4A, & 4B OPERABLE	With AC Trains 3A, 3B, & 4A OPERABLE	With AC Trains 3A, 3B, & 4B OPERABLE			
LC 4A	N/A	72	N/A			
MCC 4A	N/A	N/A	N/A			
LC 4C and/or MCC 4C	2*	2*	N/A			
LC 4H and/or MCC 4D	2**	2**	2**			
LC 4B and/or MCC 4B	2*	N/A	2*			
LC 4D	N/A	N/A	72			

*If the battery charger powered from the out-of-service LC and/or MCC is not required by LCO 3.8.2.1, the out-of-service time is not applicable (N/A).

**If neither of the battery chargers powered from the out-of-service LC and/or MCC is required by LCO 3.8.2.1, the out-of-service time is 72 hours.

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(hours)

TABLE 3.8-2

APPLICABLE TO UNIT 4 BASED ON UNIT 3 LOAD
CENTERS AND MOTOR CONTROL CENTERS INOPERABLE

ALLOWABLE OUTAGE TIMES

<u>Unit 3</u> Load Centers and Motor Control Centers Inoperable (Any MODE)	Allowable Outage Times (hours) Unit 4 - MODES 1, 2, 3 or 4		
	With AC Trains 4A, 4B, 3A, & 3B OPERABLE	With AC Trains 4A, 4B, & 3A OPERABLE	With AC Trains 4A, 4B, & 3B OPERABLE
LC 3A	N/A	72	N/A
LC 3C and/or MCC 3C	2*	2*	N/A
LC 3H and/or MCC 3D	2**	2**	2**
LC 3B and/or MCC 3B	2*	N/A	2*
LC 3D	N/A	N/A	72

- *If the battery charger powered from the out-of-service LC and/or MCC is not required by LCO 3.8.2.1, the out-of-service time is is not applicable (N/A).
**If neither of the battery chargers powered from the out-of-service LC and/or MCC is required by LCO 3.8.2.1, the out-of-service time is 72 hours.

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ONSITE POWER DISTRIBUTION

SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.3.2 As a minimum, the following electrical busses shall be energized in the specified manner:

- a. One train of A.C. emergency busses associated with the unit (3.8.3.1a. or b.) consisting of one 4160-volt and three 480-volt A.C. emergency busses load centers* and three (four for Unit 4 Train A) vital sections of motor control center busses,
- b. Two 120-volt A.C. vital busses for the unit energized from their associated inverters** connected to their respective D.C. busses, and
- c. Three 125-volt D.C. busses energized from their associated battery banks.

APPLICABILITY MODES 5*** and 6***.

ACTION:

With any of the above required electrical busses not energized in the required manner, immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, or movement of irradiated fuel, initiate corrective action to energize the required electrical busses in the specified manner as soon as possible, and within 8 hours, depressurize and vent the RCS through at least a 2.2 square inch vent.

SURVEILLANCE REQUIREMENTS

4.8.3.2 The specified busses shall be determined energized in the required manner at least once per 7 days by verifying correct breaker alignment and indicated voltage on the busses.

*With the opposite unit in MODE 1, 2, 3, or 4, the 480-volt load centers can only be cross-tied upon issuance of an engineering evaluation to prevent exceeding required electrical components maximum design ratings and to ensure availability of the minimum required equipment.

**A backup inverter may be used to replace the normal inverter provided the normal inverter in the opposite unit is not replaced at the same time.

***CAUTION - If the opposite unit is in MODES 1, 2, 3, or 4, see the corresponding Limiting Condition for Operation 3.8.3.1.

on the same DC bus for

on the same DC bus for

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