TABLE 3.3-11 (Continued)

FIRE DETECTION INSTRUMENTS UNIT 1

MINIMUM INSTRUMENTS OPERABLE

			CAL BELLEVINO IN SE	
ROOM/AREA AUX BLDG.	INSTRUMENT LOCATION	HEAT	FLAME	SMOKE
306/1C	Cable Spreading Rm & Cable			
308	Chase	2		10
100	N/S Corridor			6
315 317	Main Steam Piping Area Switchgear Room, Elev 27'-0""			
318	Purge Air Supply Room			6 2 6 3
319/325	West Passage and Vestibule			2
320	Spent Fuel Heat Exchanger Room			0
323	Passage 27' Valve Alley &			3
02.0	Filter Rm			2
324	Letdown Heat Exchanger Rm			3
Elev. 27'-0"	Switchgear Vent Duct	1		1
1A	Cable Chase 1A	*		1
18	Cable Chase 1B			1
405	Control Room			1 6 4 3
410	N/S Corridor			4
417/418	Solid Waste Processing		2	3
413/419/420	Cask and Equip Loading Area &			2
424/425/426	Cask and Equip Loading Area		3	22
421	Diesel Generator No. (12) 18	2		
422	Diesel Generator No. (11)	2	DELETE	
423	West Electrical Pen Rm	- W	, oct -	3
428	East Piping Area			3 7 3
429	East Electrical Pen Rm			3
430	Switchgear Room Elev			8
439	Refueling Water Tank Pump Rm			8 2 1
441	Spent Resin Metering Tank Rm			1
Elev 45'-0"	Switchgear Vent Duct	1		

Detection instruments located within the containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

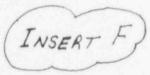
Detectors which automatically actuate Fire Suppression Systems.

TABLE 3.3-11 (Continued)

FIRE DETECTION INSTRUMENTS UNIT 1

MINIMUM INSTRUMENTS OPERABLE

ROOM/AREA AUX BLDG. Elev 69'-0" Control Room Vent Duct "A" Cable Spreading Room Vent Duct	HEAT	FLAME	SMOKE 1 1
Elev 69'-0" Cable Spreading Room Vent			
512 586/588/589/590 592/593 595/596/597 587 587 591 Control Room HVAC Equipment Radiation Chemistry Area, Radiation Chemistry Area, Radiation Chemistry Area, Frisker Area, Clothing Disposal, and			4
591 Clothing Disposal, and 523/594 Corridors 520 Spent Fuel Pool Area Vent			20
Equip Rm 524 Main Plant Exhaust Equip Rm 525 Cntmt Access Area 529 Electrical Equip. Room 530/531/533 Spent Fuel Pool Area Misc Waste Evaporator & Equip Rm Elev 83'-0" Cable Tunnel Auxiliary Feedwater Pump Rm		5	2 8 3 3 17 3 4 2
Containment Bldg. U-1 RCP Bay East* U-1 RCP Bay West* U-1 East Electric Pen Area* U-1 West Electric Pen Area*	16 16		2
Intake Structure Elev 3'-0" Unit 1 Side			24



Detection instruments located within the containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

Monitored by four protecto wires.

INSERT F

1A DG BLDG.	INSTRUMENT LOCATION	HEAT	FLAME	SMOKE
Zone 1**	DG Room, Oil Separator Room, 1A DG Building Trench, Fan Room, Maintenance Shop and Hallway	33		
Zone 2**	Battery Room, Non-1E Electric Panel Rm., Control Room, 1-E Switchgear Room, Future Expansion Room	1		11
Zone 3**	Fuel Oil Storage Tank Room	8		
Zone 4	General Area, Third Floor	17		
Zone 5	HVAC Duct, Second & Third Floor			2

^{**} Detectors which automatically actuate Fire Suppression Systems.

TABLE 3.7-5

FIRE PROTECTION SPRINKLERS UNIT 1

SPRINKLER LOCATION	CONTROL VALVE ELEVATION
11 Diesel Generator DELETE	451-0"
12 Diesel Generator	45'-0"
Unit 1 East Pipe Pen Room 227/316*	5'-0"
Unit 1 Aux Feed Pump Room 603*	12'-0"
Unit 1 East Piping Area Room 428*	45'-0"
Unit 1 East Electrical Penetration Room 429*	45'-0"
Unit 1 West Electrical Penetration Room 423*	45'-0"
Unit 1 Main Steam Piping Room 315*	45'-0"
Unit 1 Component Cooling Pump Room 228°	5'-0"
Unit 1 East Piping Area 224*	5'-0"
Unit 1 Radiation Exhaust Vent Equipment Room 225*	5'-0"
Unit 1 Service Water Pump Room 226*	5'-0"
Unit 1 Boric Acid Tank and Pump Room 217*	5'-0"
Unit 1 Reactor Coolant Makeup Pump Room 216°	5'-0"
Unit 1 Charging Pump Room 115*	(-)10'-0"
Unit 1 Misc Waste Mon Room 113*	(-)10'-0"
Cask and Eqpt Loading Area Rooms 419, 420, 425 & 426*	45'-0"
Solid Waste Processing*	45'-0"
Corridors 200, 202, 212 and 219*	5'-0"
Corridors 100, 103 and 116°	(-)10'-0"
Cable Chase 1A*	45'-0"
Cable Chase 18°	45'-0"
Unit 1 ECCS Pump Room 119*	(-)15'-0"
Hot Instrument Shop Room 222*	5'-0"
Hot Machine Shop Room 223*	5'-0"
(1A DG Building - Preaction Systems 1, 2 & 3	45'-6")

Sprinklers required to ensure the OPERABILITY of redundant safe shutdown equipment.

TABLE 3.7-6 FIRE HOSE STATIONS

LOCATION		ELEVATION	NUMBER OF HOSE STATIONS
1. Containment		10'	2
		45'	2
		69'	2
2. Auxiliary Build	iing	-15'*	1**
		-10'*	2**
		5'	6
		27'	3
		45'	5
		69'*	4
3. Turbine Buildir Outside Service and Aux Feedwat	Water Pump Rooms	12'	3
Outside Switchs		27'	2
Outside Switchs		45'	3
4. Intake Structur		10'*	1
(5. Diesel Genera	ton Building	35'	1
	J	44'	1 /
		66'	1)
		80'	1)
Ap	0		

Fire Hose Stations required for primary protection to ensure the **OPERABILITY** of safety related equipment.

Hose Stations which serve both Units 1 and 2.

3/4.8.1 A.C. SOURCES

Operating

LIMITING CONDITION FOR OPERATION

3.8.1.1 As a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. Two physically independent circuits between the offsite transmission network and the onsite Class 1E Distribution System consisting of either:
 - 1. Two 500 kV offsite power circuits, or as necessary
 - The 69 kV SMECO offsite power circuit described in the January 14, 1977 Safety Evaluation and one 500 kV offsite power circuit;

and

DELETE

3. A separate fuel transfer pump for each diesel generator.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

a. With two offsite circuits of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Surveillance Requirement 4.8.1.1.1.a within one hour and at least once per 8 hours thereafter; and 4.8.1.1.2.a.4 within 24 hours, unless the diesel generators are already operating. Restore at least two

INSERT A

- a. 325 gallons for No. 1A Emergency Diesel Generator and
- b. 275 gallons for No. 1B Emergency Diesel Generator,
- 2. Fuel Oil Storage Tanks containing a minimum volume:
 - a. 49,500 gallons for No. 1A Fuel Oil Storage Tank, and
 - b. 33,000 gallons for No. 11 Fuel Oil Storage Tank, and
 - c. 85,000 gallons for No. 21 Fuel Oil Storage Tank, and

LIMITING CONDITION FOR OPERATION (Continued)

2 hours or be in at least NOT STANDEY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. Restore at least two diesel generators to OPERABLE status within 72 hours from time of initial loss or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

- With No. 21 Fuel Oil Storage Tank inoperable, during the period from:
 - October 1 to March 31, demonstrate the OPERABILITY of No. 11 Fuel Oil Storage Tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying \$4,000 gallons) within 1 hour and at least once per 8 hours thereafter; and 2) verifying the flow path from No. 11 Fuel Oil Storage Tank to the diesel generators within 1 hour. Restore No. 21 Fuel in 1 Storage Tank to OPERABLE status within 72 hours or be in at least HOX STANDBY within the next & hours and in COLD SHUTDOWN within the following 30 hours.
 - 2. April 1 to September 30, demonstrate the OPERABILITY of two
 offsite A.C. circuits by performing Surveillance Requirement 4.8.1.1.1.a within 1 hour and at least once per 8 hours thereafter. Restore No. 21 Fuel Oil Storage Tank to OPERABLE status within & hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- With No. 11 Fuel Oil Storage Tank inoperable, demonstrate the QPERABILITY of No. 21 Fuel Oil Storage Tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 74,000 gallons) within 1 hour and at least once per 8 hours thereafter; and 2) verifying the flow path from No. 21 Fuel Oil Storage Tank to the diesel generators within 1 hour. Restore the No. 11 Fuel Oil Storage Tank to ORERABLE status within 7 days or be in at least HOT STANDBY within the next & hours and in COLO SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

- 4.8.1.1.1 Each required independent circuit between the offsite transmission network and the onsite Class 1E Distribution System shall be:
 - a. Demonstrated OPERABLE, as follows:
 - 1. For each 500 kV offsite circuit, at least once per 7 days by verifying correct breaker alignments and indicated power availability.

REPLACE WITH INSERT B

INSERT B

- f. With the No. 1A Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of the remaining A. C. sources by performing Surveillance Requirement 4.8.1.1.1.a within one hour and at least once per 8 hours thereafter, and by performing Surveillance Requirement 4.8.1.1.2.a.4 on No. 1B Emergency Diesel Generator within 24 hours. Demonstrate the OPERABILITY of the No. 21 Fuel Oil Storage Tank by performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 85,000 gallons) and verifying the flow path from the No. 21 Fuel Oil Storage Tank to the No. 1B Emergency Diesel Generator within 1 hour. Restore No. 1A Fuel Oil Storage Tank to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- g. With the Nos. 11 and 21 Fuel Oil Storage Tanks inoperable, demonstrate the OPERABILITY of the remaining A. C. sources by performing Surveillance Requirement 4.8.1.1.1.a within one hour and at least once per 8 hours thereafter, and by performing Surveillance Requirement 4.8.1.1.2.a.4 on No. 1A Emergency Diesel Generator within 24 hours. Demonstrate the OPERABILITY of the No. 1A Fuel Oil Storage Tank by performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 49,500 gallons) and verifying the flow path from the No. 1A Fuel Oil Storage Tank to the No. 1A Emergency Diesel Generator within 1 hour. Restore either No. 11 or 21 Fuel Oil Storage Tanks to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- h. With either the No. 11 or 21 Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of the other Fuel Oil Storage Tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 85,000 gallons) within 1 hour and at least once per 8 hours thereafter; and 2) verifying the flow path from the operable Fuel Oil Storage Tank to the No. 1B Emergency Diesel Generator within 1 hour.

SURVEILLANCE REQUIREMENTS (Continued)

- For the 69 kV SMECO offsite power circuit, within one hour of substitution for a 500 kV offsite power circuit, and at least once per 8 hours thereafter during use by verifying correct breaker alignments and indicated power availability; and
- b. Demonstrated OPERABLE at least once per REFUELING INTERVAL during shutdown by manually transferring unit power supply from the normal circuit to the alternate circuit.
- 4.8.1.1.2 Each diesel generator shall be demonstrated OPERABLE:
 - a. At least once per 31 days on a STAGGERED TEST BASIS by:
 - 1. Verifying the fuel level in the day fuel tank.
 - 2. Verifying the fuel level in the fuel storage tank.
 - Verifying the fuel transfer pump can be started and transfers fuel from the storage system to the day tank.
 - 4. Verifying the diesel starts and achieves a generator voltage and frequency of 4160 ± 420 volts and 60 ± 1.2 Hz, respectively.
 - Verifying the generator is synchronized, loaded to 250 kW, and operates for ≥ 60 minutes.
 - Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
 - 7. Verifying that the automatic load sequencer timer is OPERABLE with the interval between each load block within \pm 10% of its design interval.
 - b. At least once per 92 days by verifying that a sample of diesel fuel from the fuel storage tank is within the acceptable limits specified in Table 1 of ASTM D975-81 when checked for viscosity, water and sediment.

≥ 4000 kW for No. 1A Emergency Diesel Generator, and ≥ 2250 kW for No. 1B Emergency Diesel Generator,

All engine starts for the purpose of this Surveillance Requirement may be preceded by an engine prelube period and/or other warmup procedures recommended by the manufacturer so that mechanical wear and stress on the diesel engine is minimized.

SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 184 days by verifying the diesel starts from ambient condition and accelerates to at least 900 rpm in ≤ 10 seconds.
- d. At least once per REFUELING INTERVAL by:
 - Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service.
 - Verifying the generator capability to reject a load of ≥ 500 hp without tripping.
 - Simulating a loss of offsite power in conjunction with a safety injection actuation test signal, and:
 - a) Verifying de-energization of the emergency busses and load shedding from the emergency busses.
 - b) Verifying the diesel starts from ambient condition on the auto-start signal, energizes the emergency busses with permanently connected loads, energizes the auto-connected emergency loads through the load sequencer and operates for > 5 minutes while its generator is loaded with the emergency loads.

REPLACE WITH

INSERT C C

c) Verifying that the high jacket coolant temperature, high crankcase pressure, and low jacket coolant pressure trips are automatically bypassed on a Safety Injection Actuation Signal.

4. Verifying the diesel generator operates for > 60 minutes
while loaded to 2500 kW. 24000 kW for No. 1A Emergency Diesel Generator,
and 22700 kW for No. 18 Emergency Diesel Generator.

5. Verifying that the auto-connected loads to each diesel generator do not exceed the 2000 hour rating of each diesel generator.

4000 KW For No. 1A Emergency Diesel Generator, and 2700 KW for. No. 18 Emergency Diesel Generator.

All engine starts for the purpose of this Surveillance Requirement may be preceded by an engine pre-lube period recommended by the manufacturer so that mechanical wear and stress on the diesel engine is minimized.

DELETE

The high crankcase pressure trip bypass verification is applicable after the trip bypass is installed on the diesel engine being tested.

Modifications are to be completed by February 28, 1996.

INSERT C

Verifying that automatically bypassed diesel trips are automatically bypassed on a Safety Injection Actuation Signal.

3/4.8.1 A.C. SOURCES

Shutdown

LIMITING CONDITION FOR OPERATION

- 3.8.1.2 As a minimum, the following A.C. electrical power sources shall be OPERABLE:
 - a. One circuit between the offsite transmission network and the onsite Class 1E Distribution System, and
 - b. One diesel generator with:

1. A fuel oil day tank containing a minimum volume of ADD 275 gallons of fuel.

KEPLACE WITH INSERT

A common Fuel Storage System consisting of:

- No. 21 Fuel Oil Storage Tank containing a minimum volume of 74,000 gallons of fuel oil, and
- No. 11 Fuel Oil Storage Tank containing a minimum volume of 32,000 gallons of fuel of, and
- 3. A fuel transfer pump.

APPLICABILITY: MODES 5 and 6.

ACTION:

a. With less than the above minimum required A.C. electrical power sources OPERABLE for reasons other than the performance of) DELETE Surveillance Requirement 4.8.1.1.2.d.1 on No. 12 dieset/ generator:

- Immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel, and
- 2. Immediately initiate corrective actions to restore the minimum A.C. electrical busses to OPERABLE status, and

Performance of ACTION a. shall not preclude completion of actions to establish a safe conservative position.

INSERT D

- a. 325 gallons for No. 1A Emergency Diesel Generator; or
- b. 275 gallons for No. 1B Emergency Diesel Generator, and
- 2. A Fuel Oil Storage System containing a minimum volume of:
 - 49,500 gallons in No. 1A Fuel Oil Storage Tank for the No. 1A Emergency Diesel Generator; or
 - 85,000 gallons in No. 21 Fuel Oil Storage Tank and 33,000 gallons in the No. 11 Fuel Oil Storage Tank for the No. 1B Emergency Diesel Generator, and

LIMITING CONDITION FOR OPERATION (Continued)

- 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.
- b. With less than the above minimum required A.C. electrical power sources OPERABLE for the performance of Surveillance Requirement 4.8.1.1.2.d.1 on No. 12 emergency diesel generator:
 - 1. Verify either two 500 kV offsite power circuits or a 500 kV offsite power circuit and the 69 kV 9MECO offsite power circuit are available and capable of being used. This availability shall be verified prior to removing the OKERABLE emergency diesel generators and once per shift thereafter.
 - 2. Suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.
 - 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.
 - 4. An emergency diesel generator shall be OPERABLE and aligned to provide power to the emergency busses within seven days.
 - 5. Within two weeks prior to the planned unavailability of an OPERABLE emergency diesel generator, a temporary diesel generator shall be demonstrated available.
 - A temporary diesel generator shall be demonstrated available by starting it at least once per 72 hours.
 - 7. If ACTIONS b) 1 through b) 6 are not met, restore compliance with the ACTIONS within 4 hours or restore an OPERABLE emergency diesel generator within the next 4 hours.

DELETE

The provisions of ACTION b) are no longer applicable following the installation of two additional emergency diesel generators.

LIMITING CONDITION FOR OPERATION (Continued)

c. With No. 11 Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of No. 21 Fuel Oil Storage Tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 74,000 gallons) within 1 hour; and 2) verifying the flow path from No. 21 Fuel Oil Storage Tank to the diesel generator within 1 hour.

. With No. 21 Fuel Oil Storage Tank inoperable, restore No. 21 Fuel Oil Storage Tank to OPERABLE status within 72 hours or suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.

REPLACE WITH INSERT G

SURVEILLANCE REQUIREMENTS

4.8.1.2 The above required A.C. electrical power sources shall be demonstrated OPERABLE by the performance of each of the Surveillance Requirements of 4.8.1.1.1 and 4.8.1.1.2 except for Requirements 4.8.1.1.2.a.5, 4.8.1.1.2.a.7, 4.8.1.1.2.d.3, and 4.8.1.1.2.d.5.

INSERT G

- b. With the No. 1B Emergency Diesel Generator required to be OPERABLE and the No. 11 Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of No. 21 Fuel Oil Storage Tank by:
 - performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 85,000 gallons) within 1 hour; and
 - verifying the flow path from No. 21 Fuel Oil Storage Tank to No. 1B Emergency Diesel Generator within 1 hour.
- c. With the No. 1B Emergency Diesel Generator required to be OPERABLE and the No. 21 Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of No. 11 Fuel Oil Storage Tank by:
 - performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 85,000 gallons) within 1 hour; and
 - verifying the flow path from No. 11 Fuel Oil Storage Tank to the No. 1B Emergency Diesel Generator within 1 hour.

Restore No. 21 Fuel Oil Storage Tank to **OPERABLE** status within 72 hours or suspend all operations involving **CORE ALTERATIONS**, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.

d. With the No. 1A Emergency Diesel Generator required to be OPERABLE and the No. 1A Fuel Oil Storage Tank inoperable, immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.

Performance of ACTION d. shall not preclude completion of actions to establish a safe conservative position

3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A.C. Distribution - Shutdown

LIMITING CONDITION FOR OPERATION

3.8.2.2 As a minimum, the following A.C. electrical busses shall be OPERABLE and energized from sources of power other than a diesel generator but aligned to an OPERABLE diesel generator:

- 1 4160 volt Emergency Bus
- 1 480 volt Emergency Bus
- 2 120 volt A.C. Vital Busses

APPLICABILITY: MODES 5 and 6.

ACTION:

a. With less than the above complement of A.C. busses OPERABLE and energized for reasons other than the performance of Surveillance Requirement 4.8.1.1.2.d.1 on No. 12 diesel generator:

- 1. Immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel, until the minimum required A.C. busses are restored to OPERABLE and energized status, and
- Immediately initiate corrective actions to restore the minimum A.C. electrical busses to OPERABLE and energized status, and
- 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.

Performance of ACTION a. shall not preclude completion of actions to establish a safe conservative position.

LIMITING CONDITION FOR OPERATION (Continued)

- b. With less than the above minimum required A.C. electrical power sources OPERABLE for the performance of Surveillance Requirement 4.8.1.1.2.d.1 on No. 12 emergency diesel generator:
 - 1. Verify either two 500 kV offsite power circuits or a 500 kV offsite power circuit and the 69 kV SMECO offsite power circuit are available and capable of being used. This availability shall be verified prior to removing the OPERABLE emergency diesel generators and once per shift thereafter.
 - Suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.
 - 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.
 - 4. An emergency diesel generator shall be OPERABLE and aligned to provide power to the emergency busses within seven days.
 - OPERABLE emergency diesel generator, a temporary diesel generator shall be demonstrated available.
 - 6. A temporary diesel generator shall be demonstrated available by starting it at least once per 72 hours.
 - 7. If ACTIONS b) 1 through b) 6 are not met, restore compliance with the ACTIONS within 4 hours or restore an OPERABLE emergency diesel generator within the next 4 hours.

SURVEILLANCE REQUIREMENTS

4.8.2.2 The specified A.C. busses shall be determined OPERABLE and energized from A.C. sources other than the diesel generators at least once per 7 days by verifying correct breaker alignment and indicated power availability.

DELETE.

The provisions of ACTION b. are no longer applicable following the installation of two additional emergency diesel generators.

BASES

The OPERABILITY of the A.C. and D.C. power sources and associated distribution systems during operation ensures that sufficient power will be available to supply the safety related equipment required for 1) the safe shutdown of the facility and 2) the mitigation and control of accident conditions within the facility. The minimum specified independent and redundant A.C. and D.C. power sources and distribution systems satisfy the requirements of 10 CFR Part 50, Appendix A, General Design Criteria 17.

The OPERABILITY of No. 21 and No. 11 Fuel Oil Storage Tanks ensure that at least 7 days of fuel oil will be reserved below the internal tank standpipes for operation of one diesel generator on each unit, assuming one unit under accident conditions with a diesel generator load of (3,000) Kw, and the opposite unit under normal shutdown conditions with a diesel (3500) generator load of (2,500) Kw. Additionally, the OPERABILITY of No. 21 Fuel Oil Storage Tank ensures that in the event of a loss of offsite power, concurrent with a loss of the non-bunkered fuel oil storage tank (tornado/missile event), at least 7 days of fuel oil will be available for operation of one diesel generator on each unit, assuming both diesel generators are loaded to [2,500) Kw.,

The OPERABILITY of the fuel oil day tanks ensures that at least one hour of diesel generator operation is available without makeup to the day tanks, assuming (the associated diesel generator is loaded to 3,250 Kw.)

The ACTION requirements specified for the levels of degradation of the power sources provide restriction upon continued facility operation commensurate with the level of degradation. The OPERABILITY of the power sources are consistent with the initial condition assumptions of the accident analyses and are based upon maintaining at least one of each of the onsite A.C. and D.C. power sources and associated distribution systems OPERABLE during accident conditions coincident with an assumed loss of offsite power and single failure of the other onsite A.C. source.

The OPERABILITY of the minimum specified A.C. and D.C. power sources and associated distribution systems during shutdown and refueling ensures that the facility can be maintained in the shutdown or refueling condition for extended time periods and 2) sufficient instrumentation and control capability is available for monitoring and maintaining the facility status.

The OPERABILITY of No. 1A Fuel Oil Storage Tank ensures that at least 7 days of fuel oil is available to support operation of No. 1A Emergency Diesel Generator at 4000 kW.

No. 1A Emergency Diesel Generator is loaded to 4000 kW and No. 18 Emergency Diesel Generator is loaded to 3500 kW.

3000

BASES

The ACTION requirements for LCOs 3.8.1.2 and 3.8.2.2 are associated with the performance of Surveillance 4.8.1.1.2.d.1 on No. 12 emergency diesel generator with Unit 1 shutdown and Unit 2 at power. This requires that No. 11 emergency diesel generator be aligned to Unit 2. The actions specified reduce the probability of a loss of offsite power by requiring the availability of two offsite power circuits. A temporary diesel is available which has sufficient capacity to carry all required shutdown loads. This ACTION only applies to the performance of Surveillance 4.8.1.1.2.d.1 on No. 12 emergency diesel generator. Performance of Surveillance 4.8.1.1.2.d.1 on No. 11 emergency diesel generator would not violate the LCOs for 3.8.1.2 and 3.8.2.2 because the No. 12 emergency diesel generator may be aligned to either unit.

REPLACE WITH

INSERT E

INSERT E

Surveillance 4.8.1.1.2 d.3.c demonstrates that diesel generator noncritical protective functions are bypassed on a Safety Injection Actuation Signal. The diesel generator availability to mitigate the Design Basis Accident is more critical than protecting the engine against problems that are not immediately detrimental to emergency operation of the diesel generator. The automatic trips that are required to be bypassed on a Safety Injection Actuation Signal are identified in the Updated Final Safety Analysis Report.

Surveillance 4.8.1.1.2.a.5 for No. 1A Emergency Diesel Generator ensures that at least once per month the diesel generator is loaded to greater than the load required during accident conditions. For No. 1B Emergency Diesel Generator, Surveillance 4.8.1.1.2.a.5 verifies that this diesel generator is capable of synchronizing with the offsite electrical system and accepting loads greater than or equal to 90 percent of the diesel generator's continuous rating for a period of greater than or equal to 60 minutes. Surveillance 4.8.1.1.2.d.4 ensures that at least once per REFUELING OUTAGE each diesel generator is loaded to greater than the load required during accident conditions.

ATTACHMENT (4)

UNIT 2 TECHNICAL SPECIFICATION MARKED-UP PAGES

3/4 3-40 3/4 7-39 3/4 8-1 3/4 8-3 3/4 8-4 3/4 8-5 3/4 8-6 3/4 8-7 3/4 8-8 3/4 8-11 3/4 8-12 B 3/4 8-1 B 3/4 8-2

TABLE 3.3-11 (Continued)

FIRE DETECTION INSTRUMENTS UNIT 2

MINIMUM INSTRUMENTS OPERABLE

		-	AL PINNAP	b-
ROOM/AREA AUX BLDG.	INSTRUMENT LOCATION	HEAT	FLAME	SMOKE
407 408 409 414 416 7440 Elev. 45'-0" 526 527 532 Elev. 69'-0"	Switchgear Rm, Elev 45'-0"* East Piping Area East Electrical Pen Rm West Electrical Pen Rm Diesel Generator No. (22)** Refueling Water Tank Pump Rm Switchgear Vent Duct Main Plant Exhaust Equip Rm Containment Access Electrical Equip Rm Cable Spreading Room Vent Duct	B) 2 1		8 7 3 3 2 8 3 3 1 4 2
Elev. 83'-0" 605 Containment Bldg.	Cable Tunnel Auxiliary Feedwater Pump Rm			4 2
JNIT 2 UNIT 2 UNIT 2 UNIT 2	RCP Bay East* RCP Bay West* East Electric Pen Area* West Electric Pen Area*	16 16 +		
Intake Structure E	Elev 3'-0" Unit 2 Side			24

Diesel Generator No. (2A) ** 422 2

Detection instruments located within the containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

Detectors which automatically actuate Fire Suppression Systems.

Monitored by four protecto wires.

TABLE 3.7-5

FIRE PROTECTION SPRINKLERS UNIT 2

SPRINKLER LOCATION	CONTROL VALVE ELEVATION
Unit 2 Aux Feed Pump Room 605*	12'-0"
Unit 2 East Piping Area Room 408"	45'-0"
Unit 2 East Elec Pen Room 409*	45'-0"
Unit 2 West Elec Pen Room 414*	45'-0"
Cable Chase 2A°	45'-0"
Cable Chase 2B*	45'-0"
Unit 2 Main Steam Piping Room 309*	45'-0"
Unit 2 Component Cooling Pp Room 201	5'-0"
Unit 2 East Piping Area 203°	5'-0"
Unit 2 Rad Exh Vent Equip Room 204°	5'-0"
Unit 2 Service Water Pp Room 205*	5'-0"
Unit 2 Boric Acid Tk and Pp Room 215°	5'-0"
Unit 2 Reactor Coolant Makeup Pump Room 216A*	5'-0"
Unit 2 Charging Pump Room 105°	(-)10'-0"
Unit 2 Misc Waste Monitor Tk Room 106°	(-)10'-0"
Unit 2 ECCS Pump Room 101*	(-)15'-0"
Diesel Generator	45'-0"
Unit 2 East Pipe Pen Room 206/310°	5'-0"

(28)

2A Diesel Generator

45'-0")

Sprinklers required to ensure the OPERABILITY of redundant safe shutdown equipment.

3/4.8.1 A.C. SOURCES

Operating

LIMITING CONDITION FOR OPERATION

3.8.1.1 /is a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. Two physically independent circuits between the offsite transmission network and the onsite Class 1E Distribution System consisting of either:
 - 1. Two 500 kV offsite power circuits, or as necessary
 - 2. The 69 kV SMECO offsite power circuit described in the January 14, 1977 Safety Evaluation and one 500 kV offsite power circuit:

and

b. Two separate and independent diesel generators (one of which may) be a swing diesel generator capable of serving either Unit 1 or Unit 2) with: DELETE

- 1. Separate fuel oil day tanks containing a minimum volume of 275 gallons of fuel for each diesel generator,
- 2. A common Fuel Storage System consisting of:

a. No. 21 Fuel Oil Storage Tank containing a minimum volume of (74,000) gallons of fuel oil, and 85,000

No. 11 Fuel Oil Storage Tank containing a minimum volume of (32,000) gallons of fuel oil, and 33,000

3. A separate fuel transfer pump for each diesel generator.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

a. With two offsite circuits of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Surveillance Requirement 4.8.1.1.1.a within one hour and at least once per 8 hours thereafter; and 4.8.1.1.2.a.4 within 24 hours, unless the diesel generators are already operating. Restore at least two

LIMITING CONDITION FOR OPERATION (Continued)

2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. Restore at least two diesel generators to OPERABLE status within 72 hours from time of initial loss or be in at least MOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

- f. With the No. 21 Fuel Oil Storage Tank inoperable, during the period from: (B5,000)
 - 1. October 1 to March 31, demonstrate the OPERABILITY of the No. 11 Fuel Oil Storage Tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 74,000 gallons) within 1 hour and at least once per 8 hours thereafter; and 2) verifying the flow path from the No. 11 Fuel Oil Storage Tank to the diesel generators within 1 hour. Restore No. 21 Fuel Oil Storage Tank to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
 - 2. April 1 to September 30, demonstrate the OPERABILITY of two offsite A.C. circuits by performing Surveillance Requirement 4.8.1.1.1.a within 1 hour and at least once per 8 hours thereafter. Restore No. 21 Fuel Oil Storage Tank to OPERABLE status within 2 hours or be in at least NOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. (85,000)
- g. With No. 11 Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of No. 21 Fuel Oil Storage Tank by 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 74.000 gallons) within 1 hour and at least once per 8 hours thereafter, and 2) verifying the flow path from No. 21 Fuel Oil Storage Tank to the diesel generators within 1 hour. Restore No. 11 Fuel Oil Storage Tank to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

- 4.8.1.1.1 Each required independent circuit between the offsite transmission network and the onsite Class 1E Distribution System shall be:
 - a. Demonstrated OPERABLE, as follows:
 - 1. For each 500 kV offsite circuit, at least once per 7 days by verifying correct breaker alignments and indicated power availability.

SURVEILLANCE REQUIREMENTS (Continued)

- For the 69 kV SMECO offsite power circuit, within one hour of substitution for a 500 kV offsite power circuit, and at least once per 8 hours thereafter during use by verifying correct breaker alignments and indicated power availability; and
- b. Demonstrated OPERABLE at least once per REFUELING INTERVAL during shutdown by manually transferring unit power supply from the normal circuit to the alternate circuit.
- 4.8.1.1.2 Each diesel generator shall be demonstrated OPERABLE:
 - a. At least once per 31 days on a STAGGERED TEST BASIS by:
 - 1. Verifying the fuel level in the day fuel tank.
 - 2. Verifying the fuel level in the fuel storage tank.
 - Verifying the fuel transfer pump can be started and transfers fuel from the storage system to the day tank.
 - 4. Verifying the diesel starts and achieves a generator voltage and frequency of 4160 ± 420 volts and 60 ± 1.2 Hz. respectively.
 - Verifying the generator is synchronized, loaded to ≥ (1250) kW, and operates for ≥ 60 minutes.
 - Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
 - Verifying that the automatic load sequencer timer is OPERABLE with the interval between each load block within ± 10% of its design interval.
 - b. At least once per 92 days by verifying that a sample of diesel fuel from the fuel storage tank is within the acceptable limits specified in Table 1 of ASTM D975-81 when checked for viscosity, water and sediment.

All engine starts for the purpose of this Surveillance Requirement may be preceded by an engine prelube period and/or other warmup procedures recommended by the manufacturer so that mechanical wear and stress on the diesel engine is minimized.

SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 184 days by verifying the diesel starts from ambient condition and accelerates to at least 900 rpm in ≤ 10 seconds.
- d. At least once per REFUELING INTERVAL by:
 - Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service.
 - Verifying the generator capability to reject a load of ≥ 500 hp without tripping.
 - Simulating a loss of offsite power in conjunction with a safety injection actuation test signal, and:
 - a) Verifying de-energization of the emergency busses and load shedding from the emergency busses.
 - b) Verifying the diesel starts from ambient condition on the auto-start signal, energizes the emergency busses with permanently connected loads, energizes the auto-connected emergency loads through the load sequencer and operates for > 5 minutes while its generator is loaded with the emergency loads.

REPLACE WITH

verifying that the high jacket coolant temperature, high crankcase pressure, and low jacket coolant pressure trips are automatically bypassed on a Safety Injection Actuation Signal.

- 4. Verifying the diesel generator operates for \geq 60 minutes while loaded to $\geq (2500)$ kW. (3000 kW)
- 5. Verifying that the auto-connected loads to each diesel generator do not exceed the 2000 hour rating of each diesel generator.

 (3300 kW)

All engine starts for the purpose of this Surveillance Requirement may be preceded by an engine pre-lube period recommended by the manufacturer so that mechanical wear and stress on the diesel engine is minimized.

The high crankcase pressure trip bypass verification is applicable after the trip bypass is installed on the diesel engine being tested. Modifications are to be completed by February 28, 1996.

DELETE

INSERT C

Verifying that automatically bypassed diesel trips are automatically bypassed on a Safety Injection Actuation Signal.

3/4.8.1 A.C. SOURCES

Shutdown

LIMITING CONDITION FOR OPERATION

3.8.1.2 As a minimum, the following A.C. electrical power sources shall be OPERABLE:

- a. One circuit between the offsite transmission network and the onsite Class 1E Distribution System, and
- b. One diesel generator with:
 - 1. A fuel oil day tank containing a minimum volume of 275 gallons of fuel.
 - 2. A common Fuel Storage System consisting of:
- a. No. 21 Fuel Oil Storage Tank containing a minimum volume of (74,000) gallons of fuel oil, and 85.000
- b. No. 11 Fuel Oil Storage Tank containing a minimum volume of (32,000) gallons of fuel oil, and 33,000
 - 3. A fuel transfer pump.

APPLICABILITY: MODES 5 and 6.

ACTION:

a. With less than the above minimum required A.C. electrical power sources OPERABLE for reasons other than the performance of SurveilTance Requirement 4.8.1.1.2.d.1 on No. 12 diesel DELETE generator:

- Immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel, and
- 2. Immediately initiate corrective actions to restore the minimum A.C. electrical power sources to OPERABLE status, and

Performance of ACTION a. shall not preclude completion of actions to establish a safe conservative position.

LIMITING CONDITION FOR OPERATION (Continued)

- 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.
- With less than the above minimum required A.C. electrical power sources OPERABLE for the performance of Surveillance Requirement 4.8.1.1.2.d.1 on No. 12 emergency diesel generator:
 - Verify either two 500 kV offsite power circuits or a 500 kV offsite power circuit and the 69 kV SMECQ offsite power circuit are available and capable of being used. This availability shall be verified prior to removing the OPERABLE emergency diesel generators and once per shift thereafter.
- DELETE
- Suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.
- 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.
- An emergency diesel generator shall be OPERABLE and aligned to provide power to the emergency busses within seven days .
- Within two weeks prior to the planned unavailability of an OPERABLE emergency diesel generator, a temporary diesel generator shall be demonstrated available.
- 6. A temporary diesel generator shall be demonstrated available by starting it at least once per 72 hours.
- If ACTIONS b. I through b.6 are not met, restore compliance 7. with the ACTIONS within 4 hours or restore an OPERABLE emergency diesel generator within the next 4 hours.

DELETE:

The provisions of ACTION b. are no longer applicable following the installation of two additional emergency diesel generators.

Quring the 1995 Unit 2 refueling outage, an emergency diesel generator shall be OPERABLE and aligned to provide power to an emergency bus within 14 days.

LIMITING CONDITION FOR OPERATION (Continued)

With No. 11 Fuel Oil Storage Tank imperable, demonstrate the OPERABILITY of No. 21 Fuel Oil Storage Tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying X4,000 gallons) within 1 hour; and 2) verifying the flow path from No. 21 Fuel Oil Storage Tank to the diesel generator within 1 hour.

d. With No. 21 Fuel Oil Storage Tank inoperable, restore No. 21 Fuel Oil Storage Tank to OPERABLE status within 72 hours or suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.

REPLACE WITH INSERT I

SURVEILLANCE REQUIREMENTS

4.8.1.2 The above required A.C. electrical power sources shall be demonstrated OPERABLE by the performance of each of the Surveillance Requirements of 4.8.1.1.1 and 4.8.1.1.2 except for Requirements 4.8.1.1.2.a.5, 4.8.1.1.2.a.7, 4.8.1.1.2.d.3, and 4.8.1.1.2.d.5.

INSERT I

- b. With the No. 11 Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of No. 21 Fuel Oil Storage Tank by:
 - performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 85,000 gallons) within 1 hour; and
 - verifying the flow path from No. 21 Fuel Oil Storage Tank to the diesel generator within 1 hour.
- c. With the No. 21 Fuel Oil Storage Tank inoperable, demonstrate the OPERABILITY of No. 11 Fuel Oil Storage Tank by:
 - performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 85,000 gallons) within 1 hour; and
 - verifying the flow path from No. 11 Fuel Oil Storage Tank to the diesel generator within 1 hour.

Restore No. 21 Fuel Oil Storage Tank to **OPERABLE** status within 72 hours or suspend all operations involving **CORE ALTERATIONS**, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.

3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

A.C. Distribution - Shutdown

LIMITING CONDITION FOR OPERATION

3.8.2.2 As a minimum, the following A.C. electrical busses shall be OPERABLE and energized from sources of power other than a diesel generator but aligned to an OPERABLE diesel generator:

- 1 4160 volt Emergency Bus
- 1 480 volt Emergency Bus
- 2 120 volt A.C. Vital Busses

APPLICABILITY: MODES 5 and 6.

ACTION:

energized for reasons other than the performance of Surveillance Requirement 4.8.1.1.2.d.1 on No. 12 diesel generator:

DELETE

- 1. Immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel, until the minimum required A.C. busses are restored to OPERABLE and energized status, and
 - Immediately initiate corrective actions to restore the minimum A.C. electrical busses to OPERABLE and energized status, and
 - 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.

Performance of ACTION a. shall not preclude completion of actions to establish a safe conservative position.

LIMITING CONDITION FOR OPERATION (Continued)

- b. With less than the above minimum required A.C. electrical power sources OPERABLE for the performance of Surveillance Requirement 4.8.1.1.2.d.1 on No. 12 emergency diesel generator:
 - 1. Verify either two 500 kV offsite power circuits or a 500 kV offsite power circuit and the 69 kV SMECO offsite power circuit are available and capable of being used. This availability shall be verified prior to removing the OPERABLE emergency diesel generators and once per shift thereafter.
 - 2. Suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel and movement of heavy loads over irradiated fuel.
 - 3. All containment penetrations providing direct access from the containment atmosphere to the outside atmosphere shall be either closed by an isolation valve, blind flange, or manual valve, or be capable of being closed by an OPERABLE automatic purge valve. A minimum of one door in each airlock shall be closed and the equipment door shall be closed and held in place by a minimum of four bolts.
 - 4. An emergency diesel generator shall be OPERABLE and aligned to provide power to the emergency busses within seven days.
 - 5. Within two weeks prior to the planned unavailability of an OPERABLE emergency diesel generator, a temporary diesel generator shall be demonstrated available.
 - 6. A temporary diesel generator shall be demonstrated available by starting it at least once per 72 hours.
 - 7. If ACTIONS b.1 through b.6 are not met, restore compliance with the ACTIONS within 4 hours or restore an OPERABLE emergency diesel generator within the next 4 hours.

SURVEILLANCE REQUIREMENTS

4.8.2.2 The specified A.C. busses shall be determined OPERABLE and energized from A.C. sources other than the diesel generators at least once per 7 days by verifying correct breaker alignment and indicated power availability.

The provisions of ACTION b. are no longer applicable following the installation of two additional emergency diesel generators.

During the 1995 Unit 2 refueling outage, an emergency diesel generator shall be OPERABLE and aligned to provide power to an emergency bus within 14 days.

LELETE-

BASES

The OPERABILITY of the A.C. and D.C. power sources and associated distribution systems during operation ensures that sufficient power will be available to supply the safety related equipment required for 1) the safe shutdown of the facility and 2) the mitigation and control of accident conditions within the facility. The minimum specified independent and redundant A.C. and D.C. power sources and distribution systems satisfy the requirements of 10 CFR Part 50, Appendix A, General Design Criteria 17. 3000)

The OPERABILITY of No. 21 and No. 11 Fuel Cil Storage Tanks ensures that of least 7 days of fuel oil will be reserved below the internal tank standpipes for operation of one diesel generator on each unit, assuming one unit under accident conditions with a diesel generator load of 3,000 Kw, and the opposite unit under normal shutdown conditions with a diesel generator load of 2.500 Kw. Additionally, the OPERABILITY of No. 21 Fuel Oil Storage Tank ensures that in the event of a loss of offsite power, concurrent with a loss of No. 11 Fuel Oil Storage Tank (tornado/missile event), at least 7 days of fuel oil will be available for operation of one diesel generator on each unit, assuming both diesel generators are loaded to (2,500) Kw. 53000

The OPERABILITY of the fuel oil day tanks ensures that at least one hour of diesel generator operation is available without makeup to the day tanks. assuming the associated diesel generator is loaded to (3,250) Kw.

The ACTION requirements specified for the levels of degradation of the power sources provide restriction upon continued facility operation commensurate with the level of degradation. The OPERABILITY of the power sources are consistent with the initial condition assumptions of the accident analyses and are based upon maintaining at least one of each of the onsite A.C. and D.C. power sources and associated distribution systems OPERABLE during accident conditions coincident with an assumed loss of offsite power and single failure of the other onsite A.C. source.

The OPERABILITY of the minimum specified A.C. and D.C. power sources and associated distribution systems during shutdown and refueling ensures that 1) the facility can be maintained in the shutdown or refueling condition for extended time periods and 2) sufficient instrumentation and control capability is available for monitoring and maintaining the facility status.



INSERT H

Surveillance 4.8.1.1.2.d.3.c demonstrates that diesel generator noncritical protective functions are bypassed on a Safety Injection Actuation Signal. The diesel generator availability to mitigate the Design Basis Accident is more critical than protecting the engine against problems that are not immediately detrimental to emergency operation of the diesel generator. The automatic trips that are required to be bypassed on a Safety Injection Actuation Signal are identified in the Updated Final Safety Analysis Report.

Surveillance 4.8.1.1.2.a.5 verifies that the diesel generators are capable of synchronizing with the offsite electrical system and accepting loads greater than or equal to 90 percent of the diesel generator's continuous rating for a period of greater than or equal to 60 minutes. Surveillance 4.8.1.1.2.d.4 ensures that at least once per REFUELING OUTAGE the diesel generator is loaded to greater than the load required during accident conditions.

BASES

The ACTION requirements for LCOs 3.8.1.2 and 3.8.2.2 are associated with the performance of Surveillance 4.8.1.1.2.d.1 on No. 12 emergency diesel generator with Unit 2 shutdown and Unit 1 at power. This requires that No. 21 emergency diesel generator be aligned to Unit 1. The actions specified reduce the probability of a loss of offsite power by requiring the availability of two offsite power circuits. A temporary diesel is available which has sufficient capacity to carry all required shutdown loads. This ACTION only applies to the performance of Surveillance 4.8.1.1.2.d.1 on No. 12 emergency diesel generator. Performance of Surveillance 4.8.1.1.2.d.1 on No. 21 emergency diesel generator would not violate the LCOs for 3.8.1.2 and 3.8.2.2 because the No. 12 emergency diesel generator may be aligned to either unit.

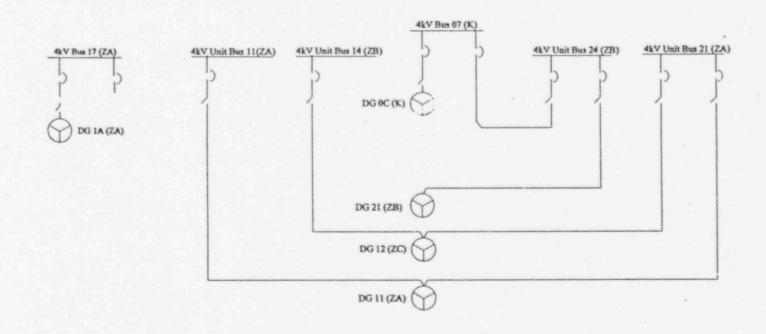
DELETE

ATTACHMENT (5)

PRE-OUTAGE AND POST-OUTAGE ENGINEERED SAFETY FEATURES ELECTRICAL SYSTEM CONFIGURATION

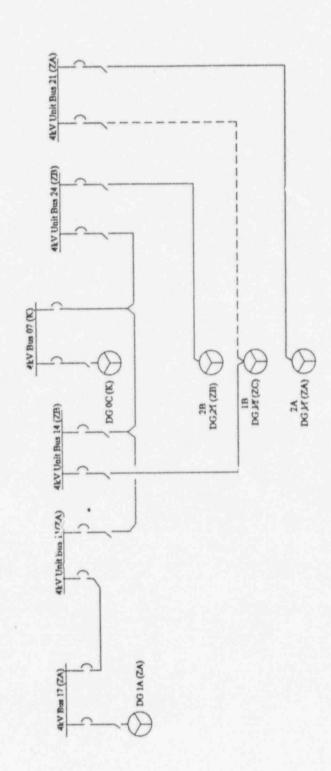
ATTACHMENT (5)

FIGURE 1, PRE-OUTAGE ELECTRICAL DISTRIBUTION CONFIGURATION



ATTACHMENT (5)

FIGURE 2, POST-OUTAGE ELECTRICAL DISTRIBUTION CONFIGURATION



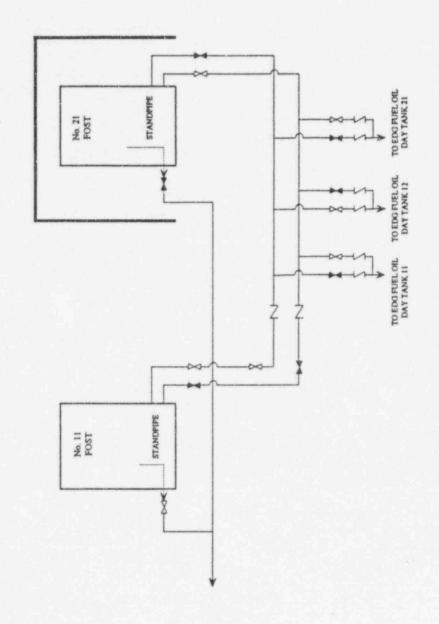
- - - Auto-start, auto-load capability has been eliminated.

ATTACHMENT (6)

PRE-OUTAGE AND PCST-OUTAGE FUEL OIL SYSTEM CONFIGURATION

ATTACHMENT (6)

FIGURE 1, PRE-OUTAGE FUEL OIL SYSTEM CONFIGURATION



ATTACHMENT (6)

FIGURE 2, POST-OUTAGE FUEL OIL SYSTEM CONFIGURATION

