# ATTACHMENT (1)

UNIT 1

TECHNICAL SPECIFICATION

REVISED PAGES

3/4 7-36

3/4 8-1

3/4 8-3

3/4 8-6

3/4 8-7

B 3/4 8-1

SURVEILLANCE REQUIREMENTS (Continued)

3. Verifying that each high pressure pump starts (sequentially) to maintain the Fire Suppression Water System pressure ≥ 80 psig.

g. At least once per **REFUELING INTERVAL** by: (1) performing a flow test of the system in accordance with Chapter 3, Section 11 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association, and (2) performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence and cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.

4.7.11.1.2 The fire pump diesel engine shall be demonstrated **OPERABLE**:

a. At least once per 31 days by verifying:

1. The diesel fuel oil day storage tank contains at least 174 gallons of fuel, and

2. The diesel starts from ambient conditions and operates for at least 30 minutes. This test shall be performed on a **STAGGERED TEST BASIS** with the test required by Specification 4.7.11.1.1.b.

b. At least once per 92 days by verifying that a sample of diesel fuel from the fuel storage tank, obtained in accordance with ASTM-D270-65, is within the acceptable limits specified in Table 1 of ASTM D975-74 (81) when checked for viscosity, water and sediment.

c. At least once per 18 months by:

1. Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service, and

2. Verifying the diesel starts from ambient conditions on the auto-start signal and operates for ≥ 20 minutes while loaded with the fire pump.

## 3/4.8 ELECTRICAL POWER SYSTEMS

### 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

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:

1. Separate ~~day~~ oil day fuel tanks containing a minimum volume of ~~375~~ 275 gallons of fuel for each diesel generator,

2. A common Fuel Storage System consisting of: ~~two independent storage tanks each containing a minimum volume of 18,250 gallons of fuel, and~~ Add INSERT A

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 (for Technical Specification 3.8.1.1.b.2)**

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

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

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 **HOT STANDBY** within the next 6 hours and in **COLD SHUTDOWN** within the following 30 hours.

f. ~~With one Diesel Fuel Oil Storage Tank inoperable, demonstrate the **OPERABILITY** of the remaining tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 36,500 gallons) within one hour and at least once per 8 hours thereafter, and 2) verifying the flowpath from the **OPERABLE** fuel oil storage tank to the diesel generators within one hour. Restore two 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. (NOTE: If the tank is inoperable, maintain an 8,000 gallon alternate fuel source onsite.)~~

~~This **ACTION** Statement is not applicable for the following conditions: 1) when #21 Diesel Fuel Oil Storage Tank is inoperable during the period from April 1 through September 30 due to the higher probability of tornado occurrences during this time frame and 2) when two Diesel Fuel Oil Storage Tanks are inoperable. **ACTION** statement e is applicable for these conditions.~~

Replace with INSERT B

Add INSERT C →

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.

**INSERT B (for Technical Specification 3.8.1.1 Action f.)**

With No. 21 Fuel Oil Storage Tank inoperable, during the period from:

1. 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 74,000 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 one 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 **HOT STANDBY** within the next 6 hours and in **COLD SHUTDOWN** within the following 30 hours.

**INSERT C (New Action Statement 3.8.1.1.g)**

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 one 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 one hour. Restore the 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.

3/4.8 ELECTRICAL POWER SYSTEMS

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 ~~day~~ 7 day fuel tank containing a minimum volume of ~~375~~ 275 gallons of fuel,

2. A ~~Fuel Storage System containing a minimum volume of 18,250 gallons of fuel, and~~ common consisting of:

Add INSERT D →

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 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, and

2. Immediately initiate corrective actions to restore the minimum A.C. electrical busses to **OPERABLE** status, and

3. Establish containment penetration closure as identified in Specification 3.9.4 within 8 hours.

---

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

**INSERT D (for Technical Specification 3.8.1.2.b.2)**

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

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

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. Have established containment penetration closure as identified in Specification 3.9.4,

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.

Add INSERT E →

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 requirement 4.8.1.1.2.a.5.

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

**INSERT E (New Action Statement 3.8.1.2.c and d)**

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 one hour; and 2) verifying the flow path from No. 21 Fuel Oil Storage Tank to the diesel generator within one 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.

## 3/4.8 ELECTRICAL POWER SYSTEMS

### 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.

Add INSERT F →

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.

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.

**INSERT F (new paragraph for BASES 3/4.8)**

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 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.

ATTACHMENT (2)

UNIT 2

TECHNICAL SPECIFICATION

REVISED PAGES

3/4 7-36

3/4 8-1

3/4 8-3

3/4 8-6

3/4 8-7

B 3/4 8-1

SURVEILLANCE REQUIREMENTS (Continued)

3. Verifying that each high pressure pump starts (sequentially) to maintain the Fire Suppression Water System pressure ≥ 80 psig.

g. At least once per **REFUELING INTERVAL** by: (1) performing a flow test of the system in accordance with Chapter 5, Section 11 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association, and (2) performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence and cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.

4.7.11.1.2 The fire pump diesel engine shall be demonstrated **OPERABLE**:

a. At least once per 31 days by verifying:

1. The diesel fuel oil day storage tank contains at least 174 gallons of fuel, and

2. The diesel starts from ambient conditions and operates for at least 30 minutes. This test shall be performed on a **STAGGERED TEST BASIS** with the test required by Specification 4.7.11.1.1.b.

b. At least once per 92 days by verifying that a sample of diesel fuel from the fuel storage tank, obtained in accordance with ASTM-D270-65, is within the acceptable limits specified in Table 1 of ASTM D975-74 (81) when checked for viscosity, water and sediment.

c. At least once per 18 months by:

1. Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service, and

2. Verifying the diesel starts from ambient conditions on the auto-start signal and operates for ≥ 20 minutes while loaded with the fire pump.

## 3/4.8 ELECTRICAL POWER SYSTEMS

### 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

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:

1. Separate ~~day~~ oil day fuel tanks containing a minimum volume of ~~375~~ 275 gallons of fuel for each diesel generator,

2. A common Fuel Storage System consisting of ~~two independent storage tanks each containing a minimum volume of 18,250 gallons of fuel, and~~

Add INSERT A →

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 (for Technical Specification 3.8.1.1.b.2)**

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

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

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 **HOT STANDBY** within the next 6 hours and in **COLD SHUTDOWN** within the following 30 hours.

f. ~~With one Diesel Fuel Oil Storage Tank inoperable, demonstrate the **OPERABILITY** of the remaining tank by: 1) performing Surveillance Requirement 4.8.1.1.2.a.2 (verifying 36,500 gallons) within one hour and at least once per 8 hours thereafter, and 2) verifying the flowpath from the **OPERABLE** fuel oil storage tank to the diesel generators within one hour. Restore two 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. (NOTE: If the tank is inoperable, maintain an 8,000 gallon alternate fuel source onsite.)~~

~~This **ACTION** Statement is not applicable for the following conditions: 1) when #21 Diesel Fuel Oil Storage Tank is inoperable during the period from April 1 through September 30 due to the higher probability of tornado occurrences during this time frame and 2) when two Diesel Fuel Oil Storage Tanks are inoperable. **ACTION** Statement e is applicable for these conditions.~~

Replace with INSERT B

Add INSERT C

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.

**INSERT B (for Technical Specification 3.8.1.1 Action f.)**

With the No. 21 Fuel Oil Storage Tank inoperable, during the period from:

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 **HOT STANDBY** within the next 6 hours and in **COLD SHUTDOWN** within the following 30 hours.

INSERT C (New Action Statement 3.8.1.1.g)

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 ≥4,000 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.

## 3/4.8 ELECTRICAL POWER SYSTEMS

### 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 ~~day~~ (0.1 day) fuel tank containing a minimum volume of ~~375~~ (275) gallons of fuel,

2. A (common) Fuel Storage System ~~containing a minimum volume of 18,250 gallons of fuel, and~~ (consisting of:)

Add INSERT D →

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 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, and

2. Immediately initiate corrective actions to restore the minimum A.C. electrical power sources to **OPERABLE** status, and

3. Establish containment penetration closure as identified in Specification 3.9.4 within 8 hours.

---

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

**INSERT D (for Technical Specification 3.8.1 2.b.2)**

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

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

**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. Have established containment penetration closure as identified in Specification 3.9.4,

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.

Add INSERT E →

**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 Requirement 4.8.1.1.2a.5.

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

**INSERT E (New Action Statement 3.8.1.2.c and d)**

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 one hour; and 2) verifying the flow path from No. 21 Fuel Oil Storage Tank to the diesel generator within one 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.

## 3/4.8 ELECTRICAL POWER SYSTEMS

### 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.

Add INSERT F →

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.

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.

**INSERT F (new paragraph for BASES 3/4.8)**

The **OPERABILITY** of No. 21 and No. 11 Fuel Oil Storage Tanks ensures 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 condition 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.

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.

# ATTACHMENT (3)

## FUEL OIL STORAGE TANKS AND DISTRIBUTION DIAGRAM