

August 12, 1992

Docket Nos. 50-275  
and 50-323

Mr. Gregory M. Rueger  
Nuclear Power Generation, B14A  
Pacific Gas and Electric Company  
77 Beale Street, Room 1451  
P.O. Box 770000  
San Francisco, California 94177

Dear Mr. Rueger:

SUBJECT: ISSUANCE OF AMENDMENTS FOR DIABLO CANYON NUCLEAR POWER PLANT,  
UNIT NO. 1 (TAC NO. M82960) AND UNIT NO. 2 (TAC NO. M82961)

The Commission has issued the enclosed Amendment No. 74 to Facility Operating License No. DPR-80 and Amendment No. 73 to Facility Operating License No. DPR-82 for the Diablo Canyon Nuclear Power Plant, Unit Nos. 1 and 2, respectively. The amendments consist of changes to the Technical Specifications (TS) in response to your application dated February 14, 1992, as supplemented by letter dated June 5, 1992 (Reference LAR 92-03).

These amendments change TS 3/4.8.1, "A.C. Sources, Operating," and TS 3/4.8.2, "A.C. Sources, Shutdown," to increase the required quantity of emergency diesel generator stored fuel oil for operating Modes 1 through 6 and to provide for the storage tanks to be taken out of service for cleaning and inspection once within every 10-year period. The associated Bases section has also been revised.

A copy of the related Safety Evaluation is enclosed. A notice of issuance will be included in the Commission's next regular biweekly Federal Register notice.

Sincerely,

Original signed by:  
Harry Rood, Senior Project Manager  
Project Directorate V  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 74 to DPR-80
2. Amendment No. 73 to DPR-82
3. Safety Evaluation

cc w/enclosures:  
See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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A copy of the related Safety Evaluation is enclosed. A notice of issuance will be included in the Commission's next regular biweekly Federal Register notice.

Sincerely,

A handwritten signature in cursive script that reads "Harry Rood".

Harry Rood, Senior Project Manager  
Project Directorate V  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 74 to DPR-80
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See next page

Mr. Gregory M. Rueger  
Pacific Gas and Electric Company

Diablo Canyon

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

PACIFIC GAS AND ELECTRIC COMPANY

DOCKET NO. 50-275

DIABLO CANYON NUCLEAR POWER PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 74  
License No. DPR-80

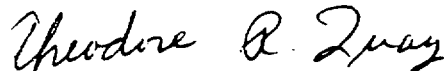
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Pacific Gas & Electric Company (the licensee) dated February 14, 1992, as supplemented by letter dated June 5, 1992, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-80 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 74 , are hereby incorporated in the license. Pacific Gas & Electric Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan, except where otherwise stated in specific license conditions.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Theodore R. Quay, Director  
Project Directorate V  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: August 12, 1992



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

PACIFIC GAS AND ELECTRIC COMPANY

DOCKET NO. 50-323

DIABLO CANYON NUCLEAR POWER PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 73  
License No. DPR-82

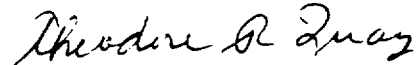
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  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-82 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 73, are hereby incorporated in the license. Pacific Gas & Electric Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan, except where otherwise stated in specific license conditions.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Theodore R. Quay, Director  
Project Directorate V  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: August 12, 1992

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 74 TO FACILITY OPERATING LICENSE NO. DPR-80

AND AMENDMENT NO. 73 TO FACILITY OPERATING LICENSE NO. DPR-82

DOCKET NOS. 50-275 AND 50-323

Revise Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change. Overleaf pages are also included, as appropriate.

REMOVE

3/4 8-1  
3/4 8-11  
B 3/4 8-3  
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INSERT

3/4 8-1  
3/4 8-11  
B 3/4 8-3  
B 3/4 8-3a



### 3/4.8 ELECTRICAL POWER SYSTEMS

#### 3/4.8.1 A.C. SOURCES

##### OPERATING

##### LIMITING CONDITION FOR OPERATION

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

- a. Two independent circuits (one with delayed access) between the offsite transmission network and the Onsite Class 1E Distribution System, and
- b. Three separate and independent diesel generators,\* each with:
  1. A separate engine-mounted fuel tank containing a minimum volume of 200 gallons of fuel, and
  2. Two supply trains of the Diesel Fuel Oil Storage and Transfer System containing a minimum combined storage of 33,000 gallons of fuel for one unit operation\*\* and 65,000 gallons of fuel for two unit operation.

APPLICABILITY: MODES 1, 2, 3, and 4.

##### ACTION:

- a. With one offsite circuit of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Specification 4.8.1.1.1a. within 1 hour and at least once per 8 hours thereafter. If each of the diesel generators have not been successfully tested within the past 24 hours demonstrate its OPERABILITY by performing Specification 4.8.1.1.2a.2) separately for each such diesel generator within 24 hours. Restore the offsite circuit 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.
- b. With a diesel generator of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the A.C. offsite sources by performing Specification 4.8.1.1.1a within 1 hour and at least once per 8 hours thereafter; and if the diesel generator became inoperable due to any cause other than preventive maintenance or

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\*For a five diesel generator configuration, OPERABILITY of the third (common) diesel generator shall include the capability of functioning as a power source for the required unit upon automatic demand from that unit.

\*\*The performance of Technical Specification Surveillance Requirement 4.8.1.1.3.e requires one fuel oil storage tank to be removed from service to be drained and cleaned. During this surveillance, the diesel generator fuel oil storage requirement for one unit operation in Modes 1 through 4 and one unit operation in Mode 6 with at least 23 feet of water above the reactor vessel flange or with the reactor vessel defueled is 35,000 gallons. The tank being cleaned may be inoperable for up to 10 days. For the duration of tank cleaning, temporary onsite fuel oil storage of 24,000 gallons will be maintained. Prior to removal of a tank from service, the offsite circuits required by Technical Specification 3.8.1.1.a will be verified to be OPERABLE.

## ELECTRICAL POWER SYSTEMS

### LIMITING CONDITION FOR OPERATION

#### ACTION (Continued)

testing, demonstrate the OPERABILITY of the remaining OPERABLE diesel generators by performing Specification 4.8.1.1.2a.2) within 24 hours\*; restore the diesel generator 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.

- c. With one offsite circuit and one diesel generator of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Specification 4.8.1.1.1a. within 1 hour and at least once per 8 hours thereafter; and if the diesel generator became inoperable due to any cause other than preventive maintenance or testing, demonstrate the OPERABILITY of the remaining OPERABLE diesel generators by performing Specification 4.8.1.1.2a.2) within 8 hours; restore at least one of the inoperable sources to OPERABLE status within 12 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours. Restore the other A.C. power source (offsite circuit or diesel generator) to OPERABLE status in accordance with ACTION a. or b., as appropriate with the time requirement of that ACTION statement based on the time of initial loss of the remaining inoperable A.C. power source. A successful test of diesel OPERABILITY per Specification 4.8.1.1.2a.2) performed under this ACTION statement for OPERABLE diesels or a restored to OPERABLE diesel satisfies the diesel generator test requirement of ACTION a. or b.
- d. With one diesel generator inoperable in addition to ACTION b. or c. above verify that:
  - 1. All required systems, subsystems, trains, components and devices that depend on the remaining OPERABLE diesel generators as a source of emergency power are also OPERABLE, and
  - 2. When in MODE 1, 2, or 3 that at least two auxiliary feedwater pumps are OPERABLE.

If these conditions are not satisfied within 2 hours be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

\*This test is required to be completed regardless of when the inoperable diesel generator is restored to operability.

\*\*For a five diesel generator configuration, the inoperable diesel generator shall be returned to OPERABLE status within 72 hours. However, once per calendar year, the third (common) diesel generator may be inoperable for up to 7 days for preplanned preventive maintenance and testing provided one unit is in Mode 5 or 6 and the other four diesel generators are OPERABLE. Surveillance Requirements 4.8.1.1.1a and 4.8.1.1.2a.4 shall be performed within 48 hours prior to removal of Diesel Generator 3 from service. During the 7 day period the remaining four diesel generators shall be verified OPERABLE at least once per 24 hours (in addition to any testing required by Table 4.8-1). In the event these conditions are not met, the unit in Mode 1, 2, 3, or 4 will be placed in HOT SHUTDOWN within 12 hours and COLD SHUTDOWN within the following 24 hours. The provisions of Technical Specification 3.0.4 do not apply.

## ELECTRICAL POWER SYSTEMS

### A.C. SOURCES

#### SHUTDOWN

#### LIMITING CONDITION FOR OPERATION

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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. An engine-mounted fuel tank containing a minimum volume of 200 gallons of fuel,
  2. One supply train of the Diesel Fuel Oil Storage and Transfer system containing a minimum storage of 26,000 gallons\* of fuel in addition to the fuel required for the other unit.

APPLICABILITY: MODES 5 and 6.

#### ACTION:

With less than the above minimum required A.C. electrical power sources OPERABLE, immediately suspend all operations involving CORE ALTERATIONS, positive reactivity changes, movement of irradiated fuel or crane operations with loads over the fuel storage pool. In addition, when in MODE 5 with the reactor coolant loops not filled, or in MODE 6 with the water level less than 23 feet above the reactor vessel flange, immediately initiate corrective action to restore the required sources to OPERABLE status as soon as possible.

#### SURVEILLANCE REQUIREMENTS

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4.8.1.2 The above required A.C. electrical power sources shall be demonstrated OPERABLE by the performance of each of the requirements of Specifications 4.8.1.1.1, 4.8.1.1.2, 4.8.1.1.3, and 4.8.1.1.4, except for Specifications 4.8.1.1.1.b.2) and 4.8.1.1.2.a.2)c), b.2) for ESF timers, b.6), b.7), b.10), and b.11).

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\*The performance of Technical Specification Surveillance Requirement 4.8.1.1.3.e requires one fuel oil storage tank to be removed from service to be drained and cleaned. During this surveillance, the diesel generator fuel oil storage requirement for one unit operation in Modes 5 or 6 and one unit operation in Mode 6 with at least 23 feet of water above the reactor vessel flange or with the reactor vessel defueled is 35,000 gallons. The tank being cleaned may be inoperable for up to 10 days. For the duration of tank cleaning, temporary onsite fuel oil storage of 24,000 gallons will be maintained. Prior to removal of a tank from service, the offsite circuits required by Technical Specification 3.8.1.1.a will be verified to be OPERABLE.

## ELECTRICAL POWER SYSTEMS

### 3/4.8.2 ONSITE POWER DISTRIBUTION

#### OPERATING

#### LIMITING CONDITION FOR OPERATION

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3.8.2.1 The following electrical busses shall be energized in the specified manner:

- a. 4160 volt Vital Bus F,
- b. 480 volt Vital Bus F,
- c. 4160 volt Vital Bus G,
- d. 480 volt Vital Bus G,
- e. 4160 volt Vital Bus H,
- f. 480 volt Vital Bus H,
- g. 120 volt Vital Instrument A.C. Bus 1 energized from its associated inverter connected to D.C. Bus 1\*,
- h. 120 volt Supplemental Vital Instrument A.C. Bus 1A energized from its associated inverter connected to D.C. Bus 1\*,
- i. 120 volt Vital Instrument A.C. Bus 2 energized from its associated inverter connected to D.C. Bus 2\*,
- j. 120 volt Vital Instrument A.C. Bus 3 energized from its associated inverter connected to D.C. Bus 3\*,
- k. 120 volt Supplemental Vital Instrument A.C. Bus 3A energized from its associated inverter connected to D.C. Bus 3\*,
- l. 120 volt Vital Instrument A.C. Bus 4 energized from its associated inverter connected to D.C. Bus 2\*,
- m. 125 volt D.C. Bus 1 energized from Battery Bank 1, and its associated full-capacity charger,
- n. 125 volt D.C. Bus 2 energized from Battery Bank 2, and its associated full-capacity charger, and
- o. 125 volt D.C. Bus 3 energized from Battery Bank 3, and its associated full-capacity charger.

APPLICABILITY: MODES 1, 2, 3, and 4.

#### ACTION:

- a. With one of the required 4160 volt and/or associated 480 volt vital busses not energized, re-energize them within 8 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With one vital instrument A.C. bus not energized from its associated inverter, or with one inverter not connected to its associated D.C.

\*Two vital instrument A.C. inverters or one vital and one supplemental vital instrument A.C. inverter may be disconnected from their D.C. busses for up to 24 hours for the purpose of performing an equalizing charge on their associated battery bank provided: (1) their vital busses are energized, and (2) the vital busses associated with the other battery banks are energized from their associated inverters and connected to their associated D.C. busses.

## ELECTRICAL POWER SYSTEMS

### BASES

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#### A.C. Sources, D.C. Sources, and ONSITE POWER DISTRIBUTION (Continued)

will not be more than 0.040 below the manufacturer's full charge specific gravity and that the overall capability of the battery will be maintained within an acceptable limit; and (4) the allowable value for an individual cell's float voltage, greater than 2.07 volts, ensures the battery's capability to perform its design function.

The OPERABILITY of the A.C. electrical power sources requires maintaining a supply of fuel oil to support the operation of the emergency diesel generators. The stored fuel oil supports the function of the A.C. power sources to provide power for the operation of emergency systems and engineered safety features (ESF) during and following the shutdown of the reactor in the event that offsite power sources are not available. The specified fuel oil quantity is based on the calculated fuel oil consumption necessary to support the operation of the emergency power source to power the minimum required ESF systems. Operation of minimum ESF systems is required to mitigate a design basis accident (LOCA) in one unit and those minimum required systems for a concurrent non-LOCA safe shutdown in the remaining unit (both units initially in Mode 1 operation). The fuel oil consumption is calculated for a period of 7 days operation of minimum ESF systems. This requirement provides a sufficient operating period within which offsite power can be restored and/or additional fuel can be delivered to the site.

The Surveillance Requirements applicable to diesel generator fuel oil storage requires cleaning the fuel oil storage tanks on a 10-year frequency. Conducting this surveillance requires the tank to be taken out of service. For this infrequent event, the inventory in the remaining tank is sufficient to support operation of the emergency diesel generator to power the minimum required loads to maintain safe conditions for a time period of 4 days, considering one unit in Mode 1 through 6 operation and one unit in Mode 6 operation with at least 23 feet of water above the reactor vessel flange or with the reactor defueled.

#### 3/4.8.4 ELECTRICAL EQUIPMENT PROTECTIVE DEVICES

The OPERABILITY of the motor operated valves thermal overload protection and bypass devices ensures that these devices will not prevent safety related valves from performing their function. The Surveillance Requirements for demonstrating the OPERABILITY of these devices are in accordance with Regulatory Guide 1.106, "Thermal Overload Protection for Electric Motors on Motor Operated Valves," Revision 1, March 1977.

Containment electrical penetrations and penetration conductors are protected by either deenergizing circuits not required during reactor operation or by demonstrating the OPERABILITY of primary and backup overcurrent protection circuit breakers during periodic surveillance.

## ELECTRICAL POWER SYSTEMS

### BASES

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#### ELECTRICAL EQUIPMENT PROTECTIVE DEVICES (Continued)

The Surveillance Requirements applicable to lower voltage circuit breakers provide assurance of breaker reliability by testing at least one representative sample of each manufacturer's brand of circuit breaker. Each manufacturer's molded case and metal case circuit breakers are grouped into representative samples which are then tested on a rotating basis to ensure that all breakers are tested. If a wide variety exists within any manufacturer's brand of circuit breakers, it is necessary to divide that manufacturer's breakers into groups and treat each group as a separate type of breaker for surveillance purposes.

A list of containment penetration conductor overcurrent protective devices, with information on location and size and equipment powered by the protected circuit, is maintained and controlled at the plant site. The list is limited to those overcurrent devices installed for the purpose of keeping circuit fault current below the penetration rating. It does not apply to other overcurrent devices associated with containment penetrations. The addition or deletion of any containment penetration conductor overcurrent protective device is governed by Section 50.59 of 10 CFR Part 50.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 74 TO FACILITY OPERATING LICENSE NO. DPR-80  
AND AMENDMENT NO. 73 TO FACILITY OPERATING LICENSE NO. DPR-82  
PACIFIC GAS AND ELECTRIC COMPANY  
DIABLO CANYON NUCLEAR POWER PLANT, UNITS 1 AND 2  
DOCKET NOS. 50-275 AND 50-323

1.0 INTRODUCTION

By letter of February 14, 1992, as supplemented by letter dated June 5, 1992 (Reference LAR 92-03), Pacific Gas and Electric Company (PG&E, or the licensee) submitted a request for changes to the Technical Specifications (TS). The proposed amendments would change TS 3/4.8.1, "A.C. Sources, Operating," and TS 3/4.8.2, "A.C. Sources, Shutdown," concerning the emergency diesel generator (EDG) fuel oil volume requirements during the 10 year tank draining, cleaning, and inspection surveillance at Diablo Canyon Units 1 & 2. TS 3.8.1.1 and 3.8.1.2 require that a volume of fuel oil be maintained to support operation of the EDGs. The applicable guidance of Regulatory Guide 1.137, ANSI Standard N195-1976, and Standard Review Plan Section 9.5.4, "EDG Fuel Oil Storage and Transfer System," states that a minimum seven-day fuel oil supply is required to be on site to meet the engineering safety equipment loads following a loss of offsite power and a design basis accident. The proposed TS change would increase the required quantity of stored EDG fuel oil for plant operation in Modes 1 through 6. This would allow the fuel oil storage tanks to be taken out of service sequentially for draining, cleaning, and inspection to meet the 10 year surveillance requirements of TS 4.8.1.1.3.e. During the 10-year surveillance, one unit will be in an outage and one fuel oil tank will be removed from service. The required fuel oil supply provided for one unit operation would support operation for the two dedicated diesel generators for a period of four days. Additional temporary onsite fuel oil storage would be provided to support EDG operation for another 3 days.

The June 5, 1992 submittal provided clarifying information on the amendments, including footnotes to the TS. Inclusion of these footnotes is within the scope of the initial notice and does not affect the Commission's initial determination.

2.0 EVALUATION

The current Diablo Canyon TS 3.8.1.1.b.2 requires that the combined fuel oil storage for one unit operation in Modes 1 through 4 be maintained at a minimum

of 31,023 gallons. The proposed TS combined fuel oil storage requirement will increase this quantity to 33,000 gallons. Current TS Section 3.8.1.2.b.2 requires that storage of the EDG fuel oil for one unit operation in Mode 5 or 6 be maintained at a minimum of 8,000 gallons. The proposed TS combined fuel oil storage requirement will increase this quantity to 26,000 gallons. Combining the proposed TS requirement of 33,000 gallons fuel oil for the operating unit in Modes 1 through 4 with the proposed TS requirement of 26,000 gallons fuel oil storage for the second unit in Mode 5 or 6 results in a total fuel oil inventory of 59,000 gallons. This volume of available fuel oil will provide sufficient fuel for the diesel generators to power the minimum electrical safety equipment loads for seven days.

The combined storage of EDG fuel oil for operation with both units in Modes 1 through 4 is currently required by the TS to be at least 52,046 gallons. The proposed TS fuel oil storage requirement will increase this amount to 65,000 gallons to maintain operation in Modes 1 through 4 for a period up to seven days. This increase in fuel oil quantity would provide sufficient fuel for the diesel generators and power for the operation of emergency system and engineered safety features (ESF) systems required to achieve a safe shutdown following a loss of cooling accident (LOCA) in one unit and to maintain the second unit in a safe shutdown condition.

PG&E proposed a TS footnote to define the oil storage requirements while one tank is removed from service to perform TS Surveillance Requirement 4.8.1.1.3.e. TS Surveillance Requirement 4.8.1.1.3.e requires one fuel oil tank to be removed from service for draining, cleaning, and inspection on a 10-year frequency. During the surveillance, the diesel generator fuel oil requirements for one unit operation in Modes 1 through 4 and one unit operation in Mode 6, with at least 23 feet of water above the reactor vessel flange or with the reactor defueled, is 35,000 gallons. The 35,000 gallons of fuel oil available will reduce the required seven-day supply necessary to power the ESF systems to four days. The licensee has committed to provide temporary onsite fuel oil storage to accommodate an additional 24,000 gallons (i.e., fuel tankers, temporary storage facility, and auxiliary boiler fuel storage tank). The additional fuel oil will be available to replenish the tank inventory, if needed. The 24,000 gallons of temporary fuel oil storage combined with the 35,000 gallons fuel oil required during the 10-year surveillance will provide sufficient fuel oil storage for the diesel generator to power the minimum ESF electrical loads for seven days. The fuel oil storage tank surveillance will be performed with one unit in Modes 1 through 4 and the other unit in Mode 6 with at least 23 feet of water above the reactor vessel flange or with the reactor defueled. The same fuel oil requirements apply (59,000 gallons) if the second unit is in Mode 5. The staff has reviewed the proposed temporary fuel oil storage measures submitted by the licensee to ensure continued operation of the common mode tank and diesel generators and consider the measures to provide temporary onsite fuel oil storage acceptable.

In summary, the staff finds the proposed amendment to TS Sections 3/4.8.1 and 3/4.8.2, the addition of the footnote, and the paragraph added to the Bases Section 3/4.8.3 to be appropriate to ensure that an adequate amount of fuel



of 31,023 gallons. The proposed TS combined fuel oil storage requirement will increase this quantity to 33,000 gallons. Current TS Section 3.8.1.2.b.2 requires that storage of the EDG fuel oil for one unit operation in Mode 5 or 6 be maintained at a minimum of 8,000 gallons. The proposed TS combined fuel oil storage requirement will increase this quantity to 26,000 gallons. Combining the proposed TS requirement of 33,000 gallons fuel oil for the operating unit in Modes 1 through 4 with the proposed TS requirement of 26,000 gallons fuel oil storage for the second unit in Mode 5 or 6 results in a total fuel oil inventory of 59,000 gallons. This volume of available fuel oil will provide sufficient fuel for the diesel generators to power the minimum electrical safety equipment loads for seven days.

The combined storage of EDG fuel oil for operation with both units in Modes 1 through 4 is currently required by the TS to be at least 54,046 gallons. The proposed TS fuel oil storage requirement will increase this amount to 65,000 gallons to maintain operation in Modes 1 through 4 for a period up to seven days. This increase in fuel oil quantity would provide sufficient fuel for the diesel generators and power for the operation of emergency system and engineered safety features (ESF) systems required to achieve a safe shutdown following a loss of cooling accident (LOCA) in one unit and to maintain the second unit in a safe shutdown condition.

PG&E proposed a TS footnote to define the oil storage requirements while one tank is removed from service to perform TS Surveillance Requirement 4.8.1.1.3.e. TS Surveillance Requirement 4.8.1.1.3.e requires one fuel oil tank to be removed from service for draining, cleaning, and inspection on a 10-year frequency. During the surveillance, the diesel generator fuel oil requirements for one unit operation in Modes 1 through 4 and one unit operation in Mode 6, with at least 23 feet of water above the reactor vessel flange or with the reactor defueled, is 35,000 gallons. The 35,000 gallons of fuel oil available will reduce the required seven-day supply necessary to power the ESF systems to four days. The licensee has committed to provide temporary onsite fuel oil storage to accommodate an additional 24,000 gallons (i.e., fuel tankers, temporary storage facility, and auxiliary boiler fuel storage tank). The additional fuel oil will be available to replenish the tank inventory, if needed. The 24,000 gallons of temporary fuel oil storage combined with the 35,000 gallons fuel oil required during the 10-year surveillance will provide sufficient fuel oil storage for the diesel generator to power the minimum ESF electrical loads for seven days. The fuel oil storage tank surveillance will be performed with one unit in Modes 1 through 4 and the other unit in Mode 6 with at least 23 feet of water above the reactor vessel flange or with the reactor defueled. The same fuel oil requirements apply (59,000 gallons) if the second unit is in Mode 5. The staff has reviewed the proposed temporary fuel oil storage measures submitted by the licensee to ensure continued operation of the common mode tank and diesel generators and consider the measures to provide temporary onsite fuel oil storage acceptable.

In summary, the staff finds the proposed amendment to TS Sections 3/4.8.1 and 3/4.8.2, the addition of the footnote, and the paragraph added to the Bases Section 3/4.8.3 to be appropriate to ensure that an adequate amount of fuel

oil inventory to the diesel generators during the 10-year surveillance for draining, cleaning, and inspection of the storage tanks sequentially is maintained. The staff concludes, based on its evaluation, that the licensee's proposed amendment to TS Section 3.8.1.1.b.2 and 3.8.1.2.b.2 with the compensatory measures for available temporary fuel oil storage onsite conforms to Regulatory Guide 1.137, ANSI Standard N195-1976, and Standard Review Plan Section 9.5.4 and, is therefore, acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the California State official was notified of the proposed issuance of the amendments. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

These amendments change a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding (56 FR 11113). Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

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