

June 20, 1986

Docket Nos. 50-275
and 50-323

Mr. J. D. Shiffer, Vice President
Nuclear Power Generation
c/o Nuclear Power Generation, Licensing
Pacific Gas and Electric Company
77 Beale Street, Room 1451
San Francisco, California 94106

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DISTRIBUTION

NRC PDR
PAD-3 Rdg.
C. Vogan
OELD
E. Jordan
T. Barnhart (8)
V. Benaroya
OPA
O. Chopra
E. Butcher

Dear Mr. Shiffer:

The Commission has issued the enclosed Amendment No. 9 to Facility Operating License No. DPR-80 and Amendment No. 7 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 combined Technical Specifications for Units 1 and 2 in response to your application transmitted by letter dated December 26, 1985 (LAR-85-15).

These amendments revise Technical Specification 3.8.1.1 - Electrical Power Systems, A.C. Sources to grant a one-time change regarding the shutdown requirement for inoperability of the swing diesel generator in order to perform a 10 day maintenance during the Unit 1 refueling outage.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

Hans Schierling, Senior Project Manager
PWR Project Directorate #3
Division of PWR Licensing-A, NRR

Enclosures:

- 1. Amendment No. 9 to DPR-80
- 2. Amendment No. 7 to DPR-82
- 3. Safety Evaluation

cc: w/enclosures
See next page

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PDR

*SEE PREVIOUS PAGE FOR CONCURRENCE

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C. Vogan H. Schierling;bs
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06/26/86

PAD-3
S. Varga
06/10/86

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Mr. J. D. Shiffer
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
DIABLO CANYON NUCLEAR POWER PLANT, UNIT 1
DOCKET NO. 50-275
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 9
License No. DPR-80

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment dated December 26, 1985 (LAR 85-15), by Pacific Gas & Electric Company (the licensee) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter 1;
 - B. The facility will operate in conformity with the application, as amended, 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 a change to the combined Technical Specifications for Units 1 and 2 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:

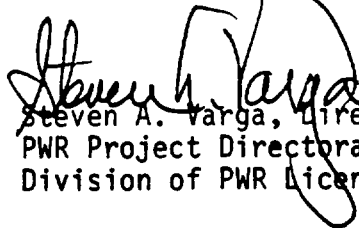
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P PDR

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 9 , and the Environmental Protection Plan contained in Appendix B are hereby incorporated in the license. PG&E shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment becomes effective at the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


Steven A. Varga, Director
PWR Project Directorate #3
Division of PWR Licensing-A, NRR

Attachment:
Changes to the Technical
Specifications

Date of Issuance: June 20, 1986



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

PACIFIC GAS AND ELECTRIC COMPANY
DIABLO CANYON NUCLEAR POWER PLANT, UNIT 2
DOCKET NO. 50-323
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 7
License No. DPR-82

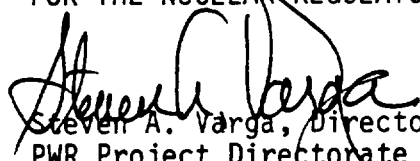
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment dated December 26, 1985 (LAR 85-15), by Pacific Gas & Electric Company (the licensee) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter 1;
 - B. The facility will operate in conformity with the application, as amended, 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 a change to the combined Technical Specifications for Units 1 and 2 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, as revised through Amendment No. 7, and the Environmental Protection Plan contained in Appendix B are hereby incorporated in the license. PG&E shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment becomes effective at the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Steven A. Varga, Director
PWR Project Directorate #3
Division of PWR Licensing-A, NRR

Attachment:
Changes to the Technical
Specifications

Date of Issuance: June 20, 1986

ATTACHMENT TO LICENSE AMENDMENT NOS. 9 AND 7
FACILITY OPERATING LICENSE NOS. DPR-80 AND DPR-82
DOCKET NOS. 50-275 AND 50-323

Revise the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised pages are identified by Amendment Number and contain vertical lines indicating the area of change.

Remove Pages

3/4 8-1

-

Insert Pages

3/4 8-1

3/4 8/1a

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 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 with a combined storage of 31,023 gallons of fuel for one unit operation and 52,046 gallons of fuel for two unit operation.

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

ACTION:

- a. With either an offsite circuit or diesel generator of the above required A.C. electrical power sources inoperable, demonstrate the OPERABILITY of the remaining A.C. sources by performing Specifications 4.8.1.1.1a. and 4.8.1.1.2a.2) within 1 hour and at least once per 8 hours thereafter; restore at least two offsite circuits and three diesel generators 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 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 Specifications 4.8.1.1.1a. and 4.8.1.1.2a.2) within 1 hour and at least once per 8 hours thereafter; 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 at least two offsite circuits and three diesel generators to OPERABLE status within 72 hours from the 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.

*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.

**For a 10-day period during the Unit 1 first refueling outage, with Unit 1 in Mode 5 or 6, only 2 diesel generators, 2-1 and 2-2, are required to satisfy the standby ac onsite power requirements for Unit 2. 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 1-3 from service. During the 10-day period, the remaining 2 diesel generators will be verified operable at least once per 24 hours (in addition to any testing required by Table 4.8-1). The term verify as used in this context means to administratively check by examining logs or other information to determine if certain components are out-of-service for maintenance or other reasons. It does not mean to perform the surveillance requirements needed to demonstrate the OPERABILITY of the components. In the event these conditions are not met, Unit 2 will be brought to HOT SHUTDOWN within 12 hours and COLD SHUTDOWN within the following 24 hours. The provisions of Technical Specification 3.0.4 do not apply.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 9 TO FACILITY OPERATING LICENSE NO. DPR-80
AND AMENDMENT NO. 7 TO FACILITY OPERATING LICENSE NO. DPR-82

PACIFIC GAS AND ELECTRIC COMPANY

DIABLO CANYON NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-275 AND 50-323

INTRODUCTION

The Pacific Gas and Electric Company (PG&E, the licensee), by letter dated December 26, 1986, (DCL-85-375, LAR-85-15) requested a change to the combined Technical Specifications (TS) for the Diablo Canyon Nuclear Power Plant, Units 1 and 2. The proposed change requests a one-time Technical Specification relief to perform during the Unit 1 refueling outage preventive maintenance on the swing diesel generator "1-3", shared by both units, without requiring both units to be in cold shutdown, and without requiring the operable diesel generators to be tested every 8 hours.

Under the present TS's operation of a unit is allowed for only 3 days if one of the DG's for that unit is found inoperable. The remaining DG's for the unit are required to be tested every 8 hours during this action statement. This proposal requests a period of 10 days to take the swing DG out of service for preventive maintenance without requiring the other operable DG's to be tested every 8 hours. Unit 1 will be in Mode 5 (cold shutdown) or 6 (Refueling) before diesel generator "1-3" can be removed from service and Unit 2 will be operating.

SYSTEM DESCRIPTION

The Diablo Canyon Plant onsite power system consists of three 4.16 KV engineered safety feature (ESF) buses for each unit. The ESF loads are assigned to these buses such that operability of any two 4.16 KV ESF buses and their attendant distribution systems will supply the minimum safety requirements for that unit.

The onsite power for both units is supplied by five 4.16 KV diesel generators. The two diesel generators "1-1" and "1-2" are dedicated to two ESF buses for Unit 1; the two diesel generators "2-1" and "2-2" are dedicated to two ESF buses for Unit 2. The fifth diesel generator, i.e., diesel generator "1-3", is assigned to the third ESF bus of each unit. This shared diesel generator "1-3" will swing to that unit having a safety injection signal.

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The offsite power system for the Diablo Canyon Plant is comprised of a 230 KV transmission system and a 500 KV transmission system. The 230 KV system consists of two incoming 230 KV transmission lines, one from nearby Morrow Bay Power Plant, the other from the Mesa Substation. Both lines feed the 230 KV switchyard having three 230 KV circuit breakers, one for each line and one for the standby startup transformers. The 230 KV power system provides an immediate source of offsite power.

The 500 KV system is the backup offsite power supply to the plant. Three incoming 500 KV transmission lines are located on two rights-of-way and provide power to the 500 KV switchyard which is a breaker-and-a-half configuration with the capability of backfeeding through the main transformer to the unit auxiliary transformers of either of the two units. This source of offsite power is made available by manually initiating a motor operated disconnecting link which is an integral part of the main generator's isolated phase bus. This disconnect link is operated from the control room and can be made available by manual initiation in a few minutes providing a delayed source of offsite power.

Additionally, both units of the Diablo Canyon Plant are designed to handle a 100% net load rejection and remain connected to the plant equipment loads without tripping the reactor.

EVALUATION

Extending the allowed outage period for the swing diesel generator from the current 3 days to the proposed 10 days in order to perform preventive maintenance does not represent a significant danger to the health and safety of the public as discussed below.

The two dedicated diesel generators for Unit 2, which will remain operable during the period when preventive maintenance is being performed on the swing diesel generator "1-3", have proven highly reliable. Each has 100% reliability based on 17 and 23 tests for generators "2-1" and "2-2", respectively.

The 230 KV and 500 KV switchyards provide reliable offsite power sources for both units of the Diablo Canyon Plant. Also, each unit is designed to handle a 100% net load rejection and remain connected to its plant equipment without tripping the reactor. Thus, a loss of offsite power event does not necessarily result in a demand on the emergency AC system.

In the event of a loss of offsite power, while the swing diesel generator "1-3" is on maintenance, Unit 2 can still be shutdown safely with the two

dedicated diesel generators for Unit 2. The licensee has stated that Unit 2 can be safely shutdown with only one diesel generator, using appropriate procedures. Before the diesel generator "1-3" can be removed from service, Unit 1 will be in Mode 5 (Cold Shutdown) or Mode 6 (Refueling), and the other two diesel generators required for Unit 2 will be demonstrated to be operable within 48 hours. In addition, during the 10 day period, these diesel generators must be verified to be in operable condition at least once per 24 hours by examining logs or other information.

In accordance with TS 3.8.1.1 Action a., the offsite circuits must be verified to be operable by checking the correct breaker alignments and indicated power availability every 8 hours during the 10 day maintenance period for Unit 1.

The staff has determined that an event requiring plant shutdown concurrent with a loss of offsite power and the loss of a diesel generator is a very unlikely event during the 10 day maintenance period for the swing diesel generator "1-3". Therefore, the proposed amendments to the Diablo Canyon TS is acceptable. Further, the proposed amendments of not requiring the other two operable diesel generators for Unit 2 to be tested every 8 hours while the swing diesel generator "1-3" is out of service is also acceptable since this is consistent with the intent of Generic Letter 84-15 to improve and maintain diesel generator reliability by reducing excessive DG testing.

Based on the above, the staff concludes that the one-time relief from the requirement of the combined Technical Specifications for Diablo Canyon Units 1 and 2 is acceptable. The licensee's request is hereby granted.

ENVIRONMENTAL CONSIDERATION

These amendments involve a change in the installation or use of the facilities components located within the restricted areas as defined in 10 CFR 20. The staff has determined that these 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 these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, these 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 these amendments.

CONCLUSION

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: June 20, 1986

PRINCIPAL CONTRIBUTOR:

O. Chopra