

December 29, 1988

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

DISTRIBUTION:

Docket File  
NRC & LPDRs  
HRood  
GHolahan  
JLee  
DHagan  
EJordan  
EButcher  
GBagchi  
RRothman

PDV Files  
JPartlow  
TMeek (8)  
WJones  
LFMB/ARM  
ACRS-10  
OGC-Rockville  
BGrimes  
GPA/PA  
LReiter

Dear Mr. Shiffer:

SUBJECT: ISSUANCE OF AMENDMENTS (TAC NO. 71169)

The Commission has issued the enclosed Amendment No. 33 to Facility Operating License No. DPR-80 and Amendment No. 32 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 (TS) in response to your application dated November 10, 1988 (Reference LAR 88-07). The amendment for Unit 2 is administrative in nature, and is issued in order to maintain common TS pages that cover both units.

The amendments authorize, for Unit 1 only, an exception to the requirements of Technical Specification 4.3.1.1, Table 4.3-1, Item 23, "Seismic Trip," until the next refueling outage (currently scheduled for October 1989). Without the exception, this TS requires that an operational test be performed on the seismic trip actuating device every six months. Without this exception, the next seismic trip test at Diablo Canyon Unit 1 would be required prior to January 3, 1989.

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,

/s/

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

8901090129 881229  
PDR ADDCK 05000275  
P PNU

Enclosures:

1. Amendment No. 33 to DPR-80
2. Amendment No. 32 to DPR-82
3. Safety Evaluation

cc w/enclosures:  
See next page

DRSP/PD5  
JLee  
12/9/88

DRSP/PD  
HRood:cw  
12/12/88

EMEB  
GBagchi  
12/15/88

OGC  
12/27/88

DRSP/PD5  
GK  
12/28/88

DFOI  
11

C/P1  
cc



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

December 29, 1988

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

Dear Mr. Shiffer:

SUBJECT: ISSUANCE OF AMENDMENTS (TAC NO. 71169)

The Commission has issued the enclosed Amendment No. 33 to Facility Operating License No. DPR-80 and Amendment No. 32 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 (TS) in response to your application dated November 10, 1988 (Reference LAR 88-07). The amendment for Unit 2 is administrative in nature, and is issued in order to maintain common TS pages that cover both units.

The amendments authorize, for Unit 1 only, an exception to the requirements of Technical Specification 4.3.1.1, Table 4.3-1, Item 23, "Seismic Trip," until the next refueling outage (currently scheduled for October 1989). Without the exception, this TS requires that an operational test be performed on the seismic trip actuating device every six months. Without this exception, the next seismic trip test at Diablo Canyon Unit 1 would be required prior to January 3, 1989.

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,

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

Enclosures:

1. Amendment No. 33 to DPR-80
2. Amendment No. 32 to DPR-82
3. Safety Evaluation

cc w/enclosures: See next page

Mr. J. D. Shiffer Pacific Gas and Electric Company

Diablo Canyon

cc:

Richard F. Locke, Esq.  
Pacific Gas & Electric Company  
Post Office Box 7442  
San Francisco, California 94120

NRC Resident Inspector  
Diablo Canyon Nuclear Power Plant  
c/o U.S. Nuclear Regulatory Commission  
P. O. Box 369  
Avila Beach, California 93424

Janice E. Kerr, Esq.  
California Public Utilities Commission  
350 McAllister Street  
San Francisco, California 94102

Mr. Dick Blakenburg  
Editor & Co-Publisher  
South County Publishing Company  
P. O. Box 460  
Arroyo Grande, California 93420

Ms. Sandra A. Silver  
660 Granite Creek Road  
Santa Cruz, California 95065

Bruce Norton, Esq.  
c/o Richard F. Locke, Esq.  
Pacific Gas and Electric Company  
Post Office Box 7442  
San Francisco, California 94120

Mr. W. C. Gangloff  
Westinghouse Electric Corporation  
P. O. Box 355  
Pittsburgh, Pennsylvania 15230

Dr. R. B. Ferguson  
Sierra Club - Santa Lucia Chapter  
Rocky Canyon Star Route  
Creston, California 93432

Managing Editor  
San Luis Obispo County Telegram  
Tribune  
1321 Johnson Avenue  
P. O. Box 112  
San Luis Obispo, California 93406

Chairman  
San Luis Obispo County Board of  
Supervisors  
Room 270  
County Government Center  
San Luis Obispo, California 93408

Mr. Leland M. Gustafson, Manager  
Federal Relations  
Pacific Gas and Electric Company  
1726 M Street, N. W.  
Washington, DC 20036-4502

Director  
Energy Facilities Siting Division  
Energy Resources Conservation and  
Development Commission  
1516 9th Street  
Sacramento, California 95814

Dian M. Grueneich  
Marcia Preston  
Law Office of Dian M. Grueneich  
380 Hayes Street, Suite 4  
San Francisco, California 94102

Ms. Jacquelyn Wheeler  
3033 Barranca Court  
San Luis Obispo, California 93401

Pacific Gas & Electric Company

- 2 -

Diablo Canyon

cc:

Ms. Laurie McDermott, Coordinator  
Consumers Organized for Defense  
of Environmental Safety  
731 Pacific Street, Suite 42  
San Luis Obispo, California 93401

Ms. Nancy Culver  
192 Luneta Street  
San Luis Obispo, California 93401

Mr. Jack McGurk, Acting Chief  
Radiological Health Branch  
State Department of Health  
Services  
714 P Street, Office Building #8  
Sacramento, California 95814

President  
California Public Utilities  
Commission  
California State Building  
350 McAllister Street  
San Francisco, California 94102

Regional Administrator, Region V  
U.S. Nuclear Regulatory Commission  
1450 Maria Lane  
Suite 210  
Walnut Creek, California 94596

Michael M. Strumwasser, Esq.  
Special Assistant Attorney General  
State of California  
Department of Justice  
3580 Wilshire Boulevard, Room 800  
Los Angeles, California 90010



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. 33  
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 November 10, 1988 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 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.

8901090140 881229  
PDR ADDCK 05000275  
P PNU


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. 33, 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 becomes effective at the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
George W. Knighton, Director  
Project Directorate V  
Division of Reactor Projects - III/IV/V  
and Special Projects  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 29, 1988



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. 32  
License No. DPR-82

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Pacific Gas & Electric Company (the licensee), dated November 10, 1988 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 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.

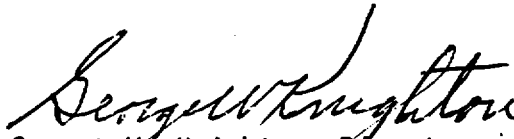
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-82 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 32, 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 becomes effective at the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George W. Knighton, Director  
Project Directorate V  
Division of Reactor Projects - III/IV/V  
and Special Projects  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 29, 1988



ATTACHMENT TO LICENSE AMENDMENT NO. 33 AND No. 32  
FACILITY OPERATING LICENSE NOS. DPR-80 and DPR-82  
DOCKET NOS. 50-275 AND 50-323

Replace the following page of the Appendix "A" Technical Specifications with the attached page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change.

Remove Page

3/4 3-12

Insert Page

3/4 3-12

DIABLO CANYON - UNITS 1 & 2

3/4 3-11

TABLE 4.3-1 (Continued)

REACTOR TRIP SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>FUNCTIONAL UNIT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>ANALOG CHANNEL OPERATIONAL TEST</u>	<u>TRIP ACTUATING DEVICE OPERATIONAL TEST</u>	<u>ACTUATION LOGIC TEST</u>	<u>MODES FOR WHICH SURVEILLANCE IS REQUIRED</u>
13. Steam Generator Water Level-Low-Low	S	R	Q(13, 14)	N.A.	N.A.	1, 2
14. Steam Generator Water Level-Low Coincident with Steam/Feedwater Flow Mismatch	S	R	Q(13, 14)	N.A.	N.A.	1, 2
15. Undervoltage-Reactor Coolant Pumps	N.A.	R	N.A.	Q(13, 14)	N.A.	1
16. Underfrequency-Reactor Coolant Pumps	N.A.	R	N.A.	Q(13)	N.A.	1
17. Turbine Trip						
a. Low Fluid Oil Pressure	N.A.	N.A.	N.A.	S/U(1, 10)	N.A.	1
b. Turbine Stop Valve Closure	N.A.	N.A.	N.A.	S/U(1, 10)	N.A.	1
18. Safety Injection Input from ESF	N.A.	N.A.	N.A.	R	N.A.	1, 2
19. Reactor Coolant Pump Breaker Position Trip	N.A.	N.A.	N.A.	R	N.A.	1
20. Reactor Trip System Interlocks						
a. Intermediate Range Neutron Flux, P-6	N.A.	R(4)	S/U(1)	N.A.	N.A.	2##
b. Low Power Reactor Trips Block, P-7	N.A.	R(4)	S/U(1)	N.A.	N.A.	1
c. Power Range Neutron Flux, P-8	N.A.	R(4)	S/U(1)	N.A.	N.A.	1

TABLE 4.3-1 (Continued)

REACTOR TRIP SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>FUNCTIONAL UNIT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>ANALOG CHANNEL OPERATIONAL TEST</u>	<u>TRIP ACTUATING DEVICE OPERATIONAL TEST</u>	<u>ACTUATION LOGIC TEST</u>	<u>MODES FOR WHICH SURVEILLANCE IS REQUIRED</u>
20. Reactor Trip System Interlocks (Continued)						
d. Power Range Neutron Flux, P-9	N.A.	R(4)	S/U(1)	N.A.	N.A.	1
e. Low Setpoint Power Range Neutron Flux, P-10	N.A.	R(4)	S/U(1)	N.A.	N.A.	1, 2
f. Turbine Impulse Chamber Pressure, P-13	N.A.	R	S/U(1, 8)	N.A.	N.A.	1
21. Reactor Trip Breaker	N.A.	N.A.	N.A.	M(7, 11)	N.A.	1, 2, 3*, 4*, 5*
22. Automatic Trip and Interlock Logic	N.A.	N.A.	N.A.	N.A.	M(7)	1, 2, 3*, 4*, 5*
23. Seismic Trip	N.A.	R	N.A.	SA <sup>#</sup>	R	1, 2

<sup>#</sup>During Unit 1 Cycle 3, this test shall be performed during the Unit 1 third refueling outage.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 33 TO FACILITY OPERATING LICENSE NO. DPR-80  
AND AMENDMENT NO. 32 TO FACILITY OPERATING LICENSE NO. DPR-82  
PACIFIC GAS AND ELECTRIC COMPANY  
DIABLO CANYON NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2  
DOCKET NO. 50-275 AND 50-323

1.0 INTRODUCTION

By letter dated November 10, 1988 (Reference LAR 88-07), Pacific Gas and Electric Company (PG&E or the licensee) requested amendments to the combined Technical Specifications (TS) appended to Facility Operating License Nos. DPR-80 and DPR-82 for the Diablo Canyon Nuclear Power Plant, Unit Nos. 1 and 2. The proposed amendments would exempt Unit 1 from performing operational testing of the seismic trip system until the next refueling outage, currently scheduled for October 1989.

2.0 DISCUSSION

During the last year, Diablo Canyon Unit 2 has tripped twice as a result of surveillance testing of the seismic trip system when one channel was in the tripped condition. The plant operators were not aware that one channel was tripped. Since the seismic trip system trips the reactor on two out of three logic, taking one channel out for testing when another channel is tripped results in a reactor trip. The licensee has implemented a corrective measure on Unit 2 by installing, at the last refueling outage, circuitry providing trip channel and logic status indication. The licensee has committed to install this circuitry in Unit 1 at the next outage of sufficient length (a minimum of 24 hours). In the meantime, the licensee proposes that it be granted an exception to the requirement to test the trip devices every six months. This could result in the Unit 1 trip devices not being tested until the next refueling outage, which is currently scheduled for October 1989. As part of its justification for the proposed change, the licensee stated that the proposed status indication can not be installed at power.

The NRC staff has reviewed the licensee's proposed TS change and finds it acceptable, based on the following:

8901090148 881229  
PDR ADDCK 05000275  
P PNU

- a. The accident analyses described in Chapter 15 of the FSAR do not take any credit for the seismic trip system. The plant was licensed on the basis of its capability to safely shut down following the "Hosgri" and the "Double-Design Earthquake" without relying on the seismic trip system.
- b. The Unit 1 seismic trip system was last tested at the refueling outage completed in June 1988, and at that time it functioned properly. There is no reason to suspect that it is not currently operable, or that it will not continue to be operable until the next refueling outage. The only malfunctions observed to date in this system resulted in one channel being in the tripped condition, which is conservative from the safety standpoint.
- c. If the seismic trip system should fail to trip on a valid seismic input (a peak acceleration of 0.35 g), there are a number of other reactor trips that provide backup to the seismic trip. These include a high-vibration turbine trip (which results in a reactor trip above 10 percent power), and procedures requiring the operators to shut the reactor down in response to a seismic event. In this regard, the licensee has committed to follow the latest revision of the Earthquake Emergency Procedure EPM-4 after an earthquake.
- d. There may be more risk associated with spurious reactor trips during testing than with the failure to trip as a result of a severe earthquake. The licensee has presented probabilistic risk analyses to justify this conclusion.

Based on the above, the staff finds the proposed amendments authorizing, for Unit 1 only, an exception to the requirements of Technical Specification 4.3.1.1, Table 4.3-1, Item 23, "Seismic Trip," until the next refueling outage to be acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve changes in the installation or use of facility components located within the restricted area as defined in 10 CFR Part 20. We have 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. 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.

#### 4.0 CONCLUSION

We have 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 (3) the issuance of these amendments will not be inimical to the common defense and security or the health and safety of the public.

Principal Contributor: Harry Rood

Dated: December 29, 1988