

August 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 NOS. 62161, 62162, 64867 and 64868)

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The Commission has issued the enclosed Amendment No. 31 to Facility Operating License No. DPR-80 and Amendment No. 30 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 in response to your application dated October 29, 1986, as supplemented by letter dated July 5, 1988 (Reference LAR 86-11).

The amendments decrease the maximum closure time for the containment vacuum/pressure relief valves from 10 seconds to 5 seconds.

The issuance of these amendments resolves license conditions 2.C.(6)g. for Unit No. 1 and 2.C.(5)b. for Unit No. 2 and closes out the remaining actions needed to satisfy NUREG-0737 item II.E.4.2 for both units.

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,

original signed by

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

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Enclosures:

1. Amendment No. 31 to DPR-80
2. Amendment No. 30 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

August 29, 1988

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and 50-323

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Nuclear Power Generation  
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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. 31 to DPR-80
2. Amendment No. 30 to DPR-82
3. Safety Evaluation

cc w/enclosures:  
See next page

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- 2 -

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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. 31  
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 October 29, 1986, as supplemented by letter dated July 5, 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.

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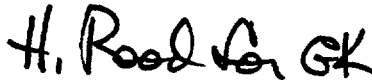
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-80 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 31, 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: August 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. 30  
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 October 29, 1986, as supplemented by letter dated July 5, 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. 30, 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

*H. Reed for G.K.*

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: August 29, 1988



ATTACHMENT TO LICENSE AMENDMENT NOS. 31 AND 30  
FACILITY OPERATING LICENSE NOS. DPR-80 and DPR-82  
DOCKET NOS. 50-275 AND 50-323

Replace the following pages 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 6-19

Insert Page

3/4 6-19

TABLE 3.6-1 (Continued)

<u>VALVE NO.</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (Seconds)</u>
1. Phase "A" Isolation Valves (Continued)		
9357B	Accumulator Sample OC	≤ 10
8100	RCP Seal Water Return OC	≤ 10
8112	RCP Seal Water Return IC	≤ 10
2. Phase "B" Isolation Valves		
FCV-356	CCW Supply to RCP's and Support Coolers OC	N.A.
FCV-357	RCP Thermal Barrier CCW Return OC	N.A.
FCV-363	RCP Oil Cooler/Support Cooler CCW Return OC	N.A.
FCV-749	RCP Oil Cooler/Support Cooler CCW Return IC	N.A.
FCV-750	RCP Thermal Barrier CCW Return IC	N.A.
3. Containment Ventilation Isolation Valves		
FCV-660##	Containment Purge Supply IC	≤ 2
FCV-661##	Containment Purge Supply OC	≤ 2
FCV-662	Containment Vacuum/Pressure Relief IC	≤ 5
FCV-663	Containment Pressure Relief OC	≤ 5
FCV-664	Containment Vacuum Relief OC	≤ 5
FCV-678	Containment Air Sample Supply IC	≤ 10
FCV-679	Containment Air Sample Supply OC	≤ 10
FCV-681	Containment Air Sample Return OC	≤ 10
RCV-11##	Containment Purge Exhaust IC	≤ 2
RCV-12##	Containment Purge Exhaust OC	≤ 2



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 31 TO FACILITY OPERATING LICENSE NO. DPR-80  
AND AMENDMENT NO. 30 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 October 29, 1986, as supplemented by letter dated July 5, 1988 (Reference LAR 86-11), Pacific Gas and Electric Company (PG&E or the licensee) requested amendments to the Technical Specifications 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 decrease the maximum closure time for the containment vacuum/overpressure relief valves from 10 seconds to 5 seconds.

2.0 DISCUSSION

The staff reported its evaluation of the Diablo Canyon Unit 1 and Unit 2 containment isolation dependability with regard to NUREG-0737, Item II.E.4.2 in Supplemental Safety Evaluation Report (SSER) 9 (June 1980), SSER 14 (April 1981), and SSER 31 (April 1985). With respect to containment purge and vent valve operability (Position 6 of II.E.4.2), it is necessary to demonstrate the operability of these valves during a design basis accident in order to assure containment isolation. This demonstration of operability is recommended by Standard Review Plan (SRP) 6.2.4, Branch Technical Position (BTP) CSB 6-4, and SRP 3.10 for containment purge and vent valves which are not sealed closed during Modes 1, 2, 3 and 4. In SSERs 14 and 31, the staff required that the 12-inch vacuum/overpressure relief valves be limited to opening angles of 50 degrees or less until their operability under accident conditions had been fully demonstrated. Accordingly, a license condition to this effect was included in the operating license for both units, and the 10-second closing time was accepted pending an analysis of full qualification at a 5 second closing rate.

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In its October 29, 1986 application for amendments, PG&E provided information to demonstrate operability of the 12-inch containment vacuum/overpressure relief valves. The information was reviewed by our contractor, EG&G, who prepared the attached Technical Evaluation Report (TER), "Demonstration of Containment Vacuum/Overpressure Relief Valve Operability", EGG-NTA-7841, dated September 1987. We have reviewed this report and agree with its conclusion that the Diablo Canyon relief valves are qualified to properly close against the buildup of containment pressure in the event of a design-basis loss-of-coolant accident, provided that the 12-inch valves are limited to a 50° opening as was assumed in the licensee's analysis. The requirement to limit the opening to 50° is already included in technical specification 3.6.1.7 for both units, thereby satisfying license conditions 2.C(6)g. for Unit 1 and license condition 2.C.(5)b. for Unit 2 which state the same requirement. Thus, the limitation on valve opening that was thought to be temporary is now permanent.

The decrease in the valve closure time will ensure earlier containment isolation and thus will reduce the radiological consequences following a LOCA. Therefore, the more rapid closure is more conservative from the standpoint of offsite releases. The 5-second valve closure time is consistent with Branch Technical Position CSB 6-4, Item B.1f, and Standard Review Plan Section 6.2.4.

By letter dated July 5, 1988, the licensee provided additional analyses revising the evaluation given in the October 29, 1986 letter. However, the revised evaluation did not change the conclusions reached in the earlier evaluation, nor the staff's conclusions on this issue.

Based on the above, the staff finds the proposed TS change to reduce the closure time for the containment vacuum/overpressure relief valves from 10 seconds to 5 seconds 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 CONTACT WITH STATE OFFICIAL

The NRC staff has advised the Chief of the Radiological Health Branch, State Department of Health Services, State of California, of the proposed determination of no significant hazards consideration. No comments were received.

#### 5.0 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 Contributors: Chang-Yang Li  
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Charles M. Trammell  
Harry Rood

Dated: August 29, 1988