

November 2 1989

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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Dear Mr. Shiffer:

SUBJECT: CORRECTION TO TECHNICAL SPECIFICATIONS MODIFIED BY AMENDMENTS
(TAC NOS. 71387, 71388, 74365, AND 74366)

By letter dated May 10, 1989, the Commission issued Amendment No. 37 to Facility Operating License No. DPR-80 and Amendment No. 36 to Facility Operating License No. DPR-82 for the Diablo Canyon Nuclear Power Plant, Unit Nos. 1 and 2, respectively. The amendments modified the combined Technical Specifications (TS) for Diablo Canyon in response to your application dated November 29, 1988, as supplemented by letters dated December 9, 1988 and February 17, 1989 (Reference LAR 88-08).

The purpose of this letter is to transmit a correction to one page of the modified Technical Specifications that accompanied the above amendments. Please replace TS page 3/4 2-10 with the enclosed page. The revised specification changes a constant in the equation for $F_Q(Z)$ from 2.45 to 2.32. The revision makes the TS consistent with your amendment request and with the staff's Safety Evaluation issued with the amendments.

Also, page 3/4 2-12 was revised by Amendments 45 and 44, issued October 20, 1989. Through administrative error, an incorrect overleaf page was printed. Enclosed is a corrected replacement for TS pages 3/4 2-11 and 3/4 2-12.

Sincerely,

original signed by Harry Rood

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

Enclosure:
TS Pages 3/4 2-10 and 3/4 2-12

cc w/enclosure: See next page

<i>JL</i> DRSP/PD5 JLee 11/17/89	<i>HR</i> DRSP/PD5 HRood 11/16/89	<i>GK</i> DRSP/PD5 GKnighton 11/20/89
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

November 22, 1989

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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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
and Special Projects
Office of Nuclear Reactor Regulation

Enclosure:
TS Pages 3/4 2-10 and 3/4 2-12

cc w/enclosure: See next page

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

Diablo Canyon

cc:

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POWER DISTRIBUTION LIMITSLIMITING CONDITION FOR OPERATION

3.2.2.2 $F_Q(Z)$ shall be limited by the following relationships:

$$F_Q(Z) \leq \frac{2.32}{P} [K(Z)] \text{ for } P > 0.5$$

$$F_Q(Z) \leq [4.64] [K(Z)] \text{ for } P \leq 0.5$$

Where $P = \frac{\text{THERMAL POWER}}{\text{RATED THERMAL POWER}}$, and

$K(Z)$ = the function obtained from Figure 3.2-2 for a given core height location.

APPLICABILITY: MODE 1 (Unit 2 Cycle 3).

ACTION:

With $F_Q(Z)$ exceeding its limit:

- a. Reduce THERMAL POWER at least 1% for each 1% $F_Q(Z)$ exceeds the limit within 15 minutes and similarly reduce the Power Range Neutron Flux-High Trip Setpoints within the next 4 hours; POWER OPERATION may proceed for up to a total of 72 hours; subsequent POWER OPERATION may proceed provided the Overpower ΔT Trip Setpoints have been reduced at least 1% for each 1% $F_Q(Z)$ exceeds the limit. The Overpower ΔT Trip Setpoint reduction shall be performed with the reactor in at least HOT STANDBY.
- b. Identify and correct the cause of the out-of-limit condition prior to increasing THERMAL POWER above the reduced limit required by ACTION a., above; THERMAL POWER may then be increased provided $F_Q(Z)$ is demonstrated through incore mapping to be within its limit.

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POWER DISTRIBUTION LIMITS

SURVEILLANCE REQUIREMENTS (Continued)

- b) Comply with the requirements of Specification 3.2.2.1 for $F_Q(z)$ exceeding its limit by the percent calculated.
- g. The limits specified in Specification 4.2.2.1.2.c, 4.2.2.1.2.e, and 4.2.2.1.2.f above are not applicable in the following core plane regions:
 - 1. Lower core region from 0 to 15%, inclusive.
 - 2. Upper core region from 85 to 100%, inclusive.

4.2.2.1.3 When $F_Q(Z)$ is measured pursuant to Specification 4.10.2.2, an overall measured $F_Q(Z)$ shall be obtained from power distribution map and increased by 3% to account for manufacturing tolerances and further increased by 5% to account for measurement uncertainty.

POWER DISTRIBUTION LIMITSSURVEILLANCE REQUIREMENTS

4.2.2.2.1 The provisions of Specification 4.0.4 are not applicable.

4.2.2.2.2 F_{xy} shall be evaluated to determine if $F_Q(Z)$ is within its limit by:

- a. Using the movable incore detectors to obtain a power distribution map at any THERMAL POWER greater than 5% of RATED THERMAL POWER,
- b. Increasing the measured F_{xy} component of the power distribution map by 3% to account for manufacturing tolerances and further increasing the value by 5% to account for measurement uncertainties,

c. Comparing the F_{xy} computed (F_{xy}^C) obtained in Specification 4.2.2.2.2b., above, to:

1. The F_{xy} limits for RATED THERMAL POWER (F_{xy}^{RTP}) for the appropriate measured core planes given in Specification 4.2.2.2.2e. and f. below, and
2. The relationship:

$$F_{xy}^L = (F_{xy}^{RTP}) [1+0.2(1-P)],$$

where F_{xy}^L is the limit for fractional THERMAL POWER operation expressed as a function of F_{xy}^{RTP} and P is the fraction of RATED THERMAL POWER at which F_{xy} was measured.

d. Remeasuring F_{xy} according to the following schedule:

1. When F_{xy}^C is greater than the F_{xy}^{RTP} limit for the appropriate measured core plane but less than the F_{xy}^L relationship, additional power distribution maps shall be taken and F_{xy}^C compared to F_{xy}^{RTP} and F_{xy}^L either:
 - a) Within 24 hours after exceeding by 20% of RATED THERMAL POWER or greater, the THERMAL POWER at which F_{xy}^C was last determined, or
 - b) At least once per 31 EFPD, whichever occurs first.

POWER DISTRIBUTION LIMITSSURVEILLANCE REQUIREMENTS (Continued)

2. When the F_{xy}^C is less than or equal to the (F_{xy}^{RTP}) limit for the appropriate measured core plane, additional power distribution maps shall be taken and F_{xy}^C compared to F_{xy}^{RTP} and F_{xy}^L at least once per 31 EFPD.
 - e. The F_{xy} limit for RATED THERMAL POWER (F_{xy}^{RTP}) shall be provided for all core planes containing Bank "D" control rods and all unrodded core planes in the CORE OPERATING LIMITS REPORT per Specification 6.9.1.8.
 - f. The F_{xy} limits of Specification 4.2.2.2e., above, are not applicable in the following core plane regions as measured in percent of core height from the bottom of the fuel:
 1. Lower core region from 0 to 15%, inclusive,
 2. Upper core region from 85 to 100% inclusive,
 3. Grid plane regions at $17.8 \pm 2\%$, $32.1 \pm 2\%$, $46.4 \pm 2\%$, $60.6 \pm 2\%$ and $74.9 \pm 2\%$, inclusive, and
 4. Core plane regions within $\pm 2\%$ of core height (± 2.88 inches) about the bank demand position of the Bank "D" control rods.
 - g. With F_{xy}^C exceeding F_{xy}^L , the effects of F_{xy} on $F_Q(Z)$ shall be evaluated to determine if $F_Q(Z)$ is within its limits.
- 4.2.2.2.3 When $F_Q(Z)$ is measured pursuant to Specification 4.10.2.2, an overall measured $F_Q(Z)$ shall be obtained from power distribution map and increased by 3% to account for manufacturing tolerances and further increased by 5% to account for measurement uncertainty.