

July 17, 1997

Mr. Gregory M. Rueger
Pacific Gas and Electric Company
NPG - Mail Code A10D
P.O. Box 770000
San Francisco, California 94177

SUBJECT: ISSUANCE OF AMENDMENTS FOR DIABLO CANYON NUCLEAR POWER PLANT,
UNIT NO. 1 (TAC NO. M95910) AND UNIT NO. 2 (TAC NO. M95911)

Dear Mr. Rueger:

On April 14, 1997, the Commission issued Amendment No. 119 to Facility Operating License No. DPR-80 and Amendment No. 117 to Facility Operating License No. DPR-82 for the Diablo Canyon Nuclear Power Plant, Unit Nos. 1 and 2, respectively. The amendments consisted of changes to the Technical Specifications (TS) in response to your application dated May 31, 1996, as supplemented by letter dated December 16, 1996. The amendments revised the combined TS to revise 23 TS surveillance requirements to support implementation of extended fuel cycles at Diablo Canyon Nuclear Power Plant, Unit Nos. 1 and 2.

Due to an administrative error, one of the technical specification pages had omitted prior amendment numbers for each unit. Enclosed is a corrected page. The overleaf page is provided to maintain document completeness. The safety evaluation had inconsistencies on pages 6 and 8. The corrected pages are enclosed. We apologize for any inconvenience this may have caused.

Sincerely,

Original Signed By

Steven D. Bloom, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Enclosure: 1. Corrected TS Page
2. Corrected SE Pages

cc w/encls: See next page

DISTRIBUTION:

Docket
PUBLIC
PDIV-2 Reading
JRoe
EGA1
WBateman
SBloom
EPeyton
PGwynn, Region IV
KPerkins, WCFO/RIV
HWong, WCFO/RIV
WBeckner
LHurley, RIV
JBianchi, WCFO (2)
GHill (4), T5C3
OGC, 015B18
ACRS, T2E26

240022

Document Name: DC.COR

OFC	PDIV-2	PDIV-2	
NAME	EPeyton	SBloom	
DATE	7/17/97	7/17/97	

OFFICIAL RECORD COPY

9707240370 970717
PDR ADOCK 05000275
P PDR

NRC FILE CENTER COPY

Mr. Gregory M. Rueger

- 2 -

July 17, 1997

cc w/encls:

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

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
Harris Tower & Pavillion
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011-8064

Dr. Richard Ferguson, Energy Chair
Sierra Club California
1100 11th Street, Suite 311
Sacramento, California 95814

Christopher J. Warner, Esq.
Pacific Gas & Electric Company
Post Office Box 7442
San Francisco, California 94120

Ms. Nancy Culver
San Luis Obispo
Mothers for Peace
P. O. Box 164
Pismo Beach, California 93448

Mr. Robert P. Powers
Vice President and Plant Manager
Diablo Canyon Nuclear Power Plant
P. O. Box 56
Avila Beach, California 93424

Chairman
San Luis Obispo County Board of
Supervisors
Room 370
County Government Center
San Luis Obispo, California 93408

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

Mr. Truman Burns
Mr. Robert Kinosian
California Public Utilities Commission
505 Van Ness, Room 4102
San Francisco, California 94102

Mr. Steve Hsu
Radiologic Health Branch
State Department of Health Services
Post Office Box 942732
Sacramento, California 94232

Diablo Canyon Independent Safety
Committee
ATTN: Robert R. Wellington, Esq.
Legal Counsel
857 Cass Street, Suite D
Monterey, California 93940

TABLE 3.3-5 (Continued)

TABLE NOTATIONS

- (1) Diesel generator starting delay not included because offsite power available.
- (2) Notation deleted.
- (3) Diesel generator starting and loading delays included.
- (4) Diesel generator starting delay not included because offsite power is available. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps (where applicable). Sequential transfer of charging pump suction from the VCT to the R&ST (R&ST valves open, then VCT valves close) is included.
- (5) Diesel generator starting and sequence loading delays included. Offsite power is not available. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps. Sequential transfer of charging pump suction from the VCT to the R&ST (R&ST valves open, then VCT valves close) is included.
- (6) The maximum response time of 48.5 seconds is the time from when the containment pressure exceeds the High-High Setpoint until the spray pump is started and the discharge valve travels to the fully open position assuming off-site power is not available. The time of 48.5 seconds includes the 28-second maximum delay related to ESF loading sequence. Spray riser piping fill time is not included. The 80-second maximum spray delay time does not include the time from LOCA start to "P" signal.
- (7) Diesel generator starting and sequence loading delays included. Sequential transfer of charging pump suction from the VCT to the R&ST (R&ST valves open, then VCT valves close) is not included. Response time limit includes opening of valves to establish SI flow path and attainment of discharge pressure for centrifugal charging pumps. SI, and RHR pumps (where applicable).
- (8) Does not include Trip Time Delays. Response times include the transmitters, Eagle-21 Process Protection cabinets, Solid State Protection System cabinets and actuation devices only. This reflects the response times necessary for THERMAL POWER in excess of 50% RTP.

TABLE 4.3-2

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION
SURVEILLANCE REQUIREMENTS

DIABLO CANYON - UNITS 1 & 2	FUNCTIONAL UNIT	CHANNEL CHECK	CHANNEL CALI- BRATION	CHANNEL OPERA- TIONAL TEST	TRIP ACTUATING DEVICE OPERA- TIONAL TEST	ACTUATION LOGIC TEST	MASTER RELAY TEST	SLAVE RELAY TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED
	1. Safety Injection, (Reactor Trip Feedwater Isolation, Start Diesel Generators, Containment Fan Cooler Units, and Component Cooling Water)								
	a. Manual Initiation	N.A.	N.A.	N.A.	R24	N.A.	N.A.	N.A.	1, 2, 3, 4
3/4	b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2, 3, 4
3-32	c. Containment Pressure-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3, 4
	d. Pressurizer Pressure-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
	e. DELETED								
	f. Steam Line Pressure-Low	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3
Unit 1 - 64,84,87,89,114,115,118,119	2. Containment Spray (coincident with SI signal)								
Unit 2 - 60,83,86,88,112,113,116,117	a. Manual Initiation	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3, 4
	b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	R	1, 2, 3, 4
	c. Containment Pressure-High-High	S	R	Q	N.A.	N.A.	N.A.	N.A.	1, 2, 3, 4

TS 4.7.6.1d.1 verifies that the pressure drop across the combined high efficiency particulate air (HEPA) filters and charcoal adsorber banks is less than 3.7 inches water gauge while operating the system at a flow rate of 73,500 cfm \pm 10 percent. The surveillance frequency would be extended to REFUELING INTERVAL.

TS 4.7.6.1 d.2 verifies that flow is established through the HEPA filters and charcoal adsorber banks on a safety injection (SI) test signal. The surveillance frequency would be extended to REFUELING INTERVAL.

TS 4.7.6.1d.3) verifies that the heaters dissipate 50 \pm 5 KW when tested in accordance with ANSI N510-1980. The surveillance frequency would be extended to REFUELING INTERVAL.

TS 4.7.6.1d.4) verifies that leakage through dampers M-2A and M-2B is less than or equal to 5 cfm when subjected to a constant pressure or pressure decay leak rate test in accordance with ASME N510-1989. The surveillance frequency would be extended to REFUELING INTERVAL.

3.4.2 Justification for the Change

The auxiliary building ventilation system (ABVS) for each unit supplies filtered outside air to various locations in the auxiliary building. The system consists of two redundant sets of supply and exhaust fans, dampers and filter banks. An electric preheater, and charcoal adsorber bank are also provided when safeguards filtration is required. The ABVS provides ventilation and cooling to support safety-related equipment, and provides significant reductions in the amounts of airborne radioactive materials that could be released to the atmosphere after an accident. The licensee requested administrative changes to combine the various intervals and conditions when carbon testing is required into one surveillance requirement, TS 4.7.6.1c. Since the licensee recently changed carbon testing methodologies they did not propose a surveillance extension. The capacity and performance verification of ABVS is performed using several tests on a 18-month frequency. Automatic actuation of the safeguards filtration mode is tested every refueling outage with slave relay testing requirements of TS 4.3.2. Operability of ABVS is verified by other surveillance requirements such as operation of components every 31 days per TS 4.7.6.1a. The automatic damper actuation operability is verified by testing of the logic of the SSPS on a staggered monthly frequency. The licensee stated that a review of the surveillance, maintenance and operating history indicated there are no time-dependent failures and problems and that the effect on safety of extending the surveillance interval is small. The NRC staff finds the proposed changes acceptable.

3.5 Fuel Handling Building Ventilation System

3.5.1 Proposed TS change

TS 4.9.12b.1, verifies that with a system flow rate of 35,750 cfm \pm 10 percent and exhausting through the HEPA filters and charcoal adsorbers, the damper M-29 is closed. The surveillance frequency would be extended to REFUELING INTERVAL.

intervals and conditions when carbon testing is required into one surveillance requirement, TS 4.9.12c. Since the licensee recently changed carbon testing methodologies they did not propose a surveillance extension. The capacity and performance verification of the FHB ventilation system is performed using several tests on a 18-month frequency. Automatic actuation of the safeguards filtration mode is tested quarterly to meet TS 4.3.3.1 radiation monitor channel functional testing requirements. This test also means that the startup of one of the safety-related exhaust fans with a safeguards filter train, automatic shutdown of the normal exhaust fan and closure of the associated inlet damper is tested quarterly. Operability of the FHB ventilation system is verified by other surveillance requirements such as operation of components every 31 days per TS 4.9.12a. The licensee stated that a review of the surveillance, maintenance and operating history indicated there are no recurring failures and problems and that the effect on safety of extending the surveillance interval is small. The NRC staff finds the proposed changes acceptable.

4.0 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.

5.0 ENVIRONMENTAL CONSIDERATION

These amendments change 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 (61 FR 52966). 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.

6.0 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 amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: S.V. Athavale
S. Bloom
T. Dunning

Date: April 14, 1997