

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION # 9612120121 DOC. DATE: 96/11/25 NOTARIZED: YES DOCKET #
 FACIL: 50-275 Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Gas 05000275
 50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Gas 05000323
 AUTH. NAME AUTHOR AFFILIATION
 RUEGER, G.M. Pacific Gas & Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk) *see shelf*

SUBJECT: Forwards Rev 11 to Diablo Canyon UFSAR, per 10CFR50.71(e) & 10CFR50.4(b)(6). Changes made in rev, submitted.

DISTRIBUTION CODE: A053D COPIES RECEIVED: LTR 1 ENCL 11 SIZE: 5 + 12883
 TITLE: OR Submittal: Updated FSAR (50.71) and Amendments

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
	PD4-2 PD	1 0	BLOOM, S	1 1
INTERNAL:	ACRS	1 1	AEOD/DOA/IRB	1 1
	<u>EPPE CENTER 01</u>	2 2	RGN4	1 1
EXTERNAL:	IHS	1 1	NOAC	1 1
	NRC PDR	1 1		

Vols 1-16

C
A
T
E
G
O
R
Y

1

D
O
C
U
M
E
N
T

NOTE TO ALL "RIDS" RECIPIENTS:
 PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM OWFN 5D-5 (EXT. 415-2083) TO ELIMINATE YOUR NAME FROM
 DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTR 10 ENCL 9

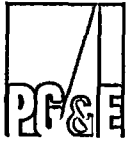
MAE

Pacific Gas and Electric Company

245 Market Street, Room 937-N9B
San Francisco, CA 94105
Mailing Address
Mail Code N9B
P.O. Box 770000
San Francisco, CA 94177
415/973-4684 Fax 415/973-2313

Gregory M. Rueger
Senior Vice President and
General Manager
Nuclear Power Generation

November 25, 1996



PG&E Letter DCL-96-225

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Docket No. 50-274⁵, OL-DPR-80
Docket No. 50-323, OL-DPR-82
Diablo Canyon Units 1 and 2
Final Safety Analysis Report Update, Revision 11

Dear Commissioners and Staff:

Pursuant to 10 CFR 50.71(e) and 10 CFR 50.4(b)(6), enclosed are a signed original and 10 copies of the Diablo Canyon Final Safety Analysis Report (FSAR) Update, Revision 11.

As required by 10 CFR 50.71(e)(2), Revision 11 of the FSAR Update includes changes made from October 28, 1994 (cutoff date for Revision 10) through May 24, 1996 (cutoff date for Revision 11) necessary to reflect information and analyses submitted to the Commission or prepared pursuant to a Commission requirement, as well as changes made under the provisions of 10 CFR 50.59. A summary description of the 50.59 safety evaluations will be submitted separately to the NRC by no later than the end of January 1997.

The FSAR Update is being reissued in its entirety as Revision 11. The document has been reformatted to consolidate prior revisions and improve readability. The significant changes made in Revision 11 include the following:

- Removal of Chapter 2 appendices, which include information voluntarily provided by PG&E related to site characteristics, from the FSAR Update. These appendices will be placed in licensing files where the documents will be maintained as licensing basis historical references.
- Deletion of Table 3.2-3, "Classification of Structures, Systems, and Components," and replacement with a reference to the Q-List, which is maintained current by PG&E as a controlled document.

090037
9612120121 961125
PDR ADOCK 05000275
K PDR

A053 Vols
1/11 sets 1-16

- Addition of a new Chapter 16 to list equipment control guidelines that were developed to replace information relocated from the Technical Specifications.
- Revisions to show that the reactor core may be either partially or fully off-loaded during refueling, and that an off-load rate of greater than four assemblies per hour is acceptable with administrative controls on pool temperature.
- Inclusion of a facility modification to pressurize the component cooling water (CCW) system surge tank to prevent flashing in the containment fan cooler units during a postulated large break loss-of-coolant accident (LOCA) coincident with a loss of offsite power.
- Reanalysis of the large break LOCA and main steam line break accident using a new mass and energy release methodology that results in decreased peak containment pressures. The impact on auxiliary saltwater and CCW operation is also evaluated and described.
- Reducing the minimum required auxiliary feedwater (AFW) pump flow rates from 440/880 gpm to 410/820 gpm for the motor-driven/turbine-driven pumps, respectively. Reducing these flow rates increases the steam generator margin to overfill following a postulated steam generator tube rupture and provides a larger window for AFW system operation.

Other changes have also been made throughout the FSAR Update to correct inconsistencies and reflect current plant design and operation. To facilitate use of the FSAR Update, a document index was developed and is located in the front of Volume 1.

A review of the FSAR Update through Revision 10 performed by PG&E in early 1996 identified a number of discrepancies in design descriptions and evaluations; analysis methods, assumptions, and results; and operational constraints. Most of these discrepancies have been corrected in Revision 11. Changes for a few of the discrepancies, however, have not yet been developed due to time and resource limitations. The discrepancies that remain to be corrected are judged to be of low safety significance and primarily involve the following areas:

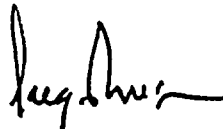
- Flood and hydrologic engineering descriptions and evaluations in Chapters 2 and 3 need to be revised and updated.

U.S. Nuclear Regulatory Commission
November 25, 1996
Page 3

- Seismic design issues, loading combinations, and equipment qualifications in Chapter 3 need to be reviewed in detail and changes made, as appropriate.
- Instrument accuracy values in Tables 7.5-1 through 7.5-5 need to be revised to be consistent with design calculations of record.

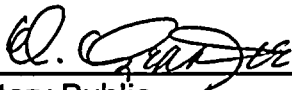
PG&E plans to submit a supplemental revision to the FSAR Update to address these areas by April 30, 1997.

Sincerely,



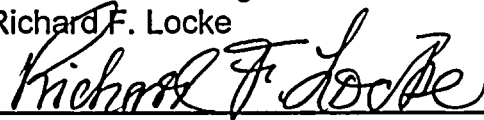
Gregory M. Rueger

Subscribed and sworn to before me
this 25th day of November 1996



Notary Public

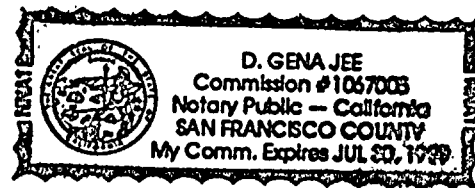
Attorneys for Pacific Gas and
Electric Company
Bruce R. Worthington
Richard F. Locke



Richard F. Locke

Enclosure

cc: Steven D. Bloom (w/enc)
L. J. Callan (w/enc)
Kenneth E. Perkins
Michael D. Tschiltz (w/enc)
Diablo Distribution



RLJ/1051

NOTICE OF CONTROLLED DOCUMENT TRANSMITTAL

Date: November 25, 1996

To: U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

From: Pacific Gas and Electric Company
Licensing and Design Basis Management

Subject: Transmittal of Controlled Document
Final Safety Analysis Report Update, Revision 11
Diablo Canyon Power Plant, Units 1 and 2

Kindly acknowledge receipt of Copy No. 1 of the FSAR Update, Revision 11 (16 volumes), by signing this transmittal notice and returning it to the person identified below.

Your existing FSAR Update (14 volumes with revisions through May 1995, Revision 10) is no longer current and should no longer be used as a reference source.

Remove the controlled copy cover sheet attached to this transmittal notice and place it in the front of Volume 1 of the FSAR Update (preferably behind the heavy-duty title sheet).

Return transmittal notice to:

David W. Ogden
Pacific Gas and Electric Company
Mail Code N9B
P.O. Box 770000
San Francisco, CA 94177

I HAVE RECEIVED AND COMPLIED WITH THE TRANSMITTAL
NOTICE INSTRUCTIONS FOR THE ABOVE CONTROLLED
DOCUMENT.

Signature of Document Holder

Date

1
Copy

FINAL SAFETY ANALYSIS REPORT UPDATE
DIABLO CANYON POWER PLANT
UNITS 1 AND 2

THIS MANUAL IS
THE PROPERTY OF:

PACIFIC GAS AND ELECTRIC COMPANY
NUCLEAR POWER GENERATION
245 MARKET STREET
SAN FRANCISCO, CA 94105

ISSUED TO:

Document Control Desk

Name

U.S. Nuclear Regulatory Commission

Department/Company

CONTROLLED COPY NO. 1