

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7907130459 DOC. DATE: 79/07/06 NOTARIZED: NO DOCKET #  
 FACIL: 50-361 San Onofre Nuclear Station, Unit 2, Southern Californ 05000362  
 50-362 San Onofre Nuclear Station, Unit 3, Southern Californ 05000362  
 AUTH. NAME AUTHOR AFFILIATION  
 HAYNES, J. G. Southern California Edison Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 BAER, B. Light Water Reactors Branch 2

SUBJECT: Responds to structural audit info requests. Forwards non-proprietary responses to action items, proprietary & non-proprietary versions of structural design calculation packages & affidavit of LG Hinkelman.

(see Vol. 1+2 7907130459 prop + non-prop)  
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*Southern California Edison Company*



P. O. BOX 800  
2244 WALNUT GROVE AVENUE  
ROSEMEAD, CALIFORNIA 91770

July 6, 1979

Director, Office of Nuclear Reactor Regulation  
Attention: Mr. Robert Baer, Chief  
LWR Branch 2, DPM  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Gentlemen:

Subject: Structural Design Analysis Audit  
Docket Nos. 50-361 and 50-362  
San Onofre Nuclear Generating Station  
Units 2 and 3

In responding to your recent structural audit information requests a substantial amount of proprietary information must be presented. SCE agreed to submit the proprietary information to the NRC staff in accordance with 10 CFR Part 2.

Enclosed per your requests during the structural audit are the following responses to the items listed in Enclosure 1:

- (1) Seven (7) copies of non-proprietary responses to action items from the structural audit
- (2) Seven (7) copies (Nos. 01 through 07) of complete proprietary structural design calculation packages
- (3) Seven (7) copies of the nonproprietary version of the proprietary structural design calculation packages
- (4) Affidavit setting forth the basis on which the information may be withheld from public disclosure by the Commission and addressing specifically the considerations listed in paragraph (b) (4) of Section 2.790 of the Commission's regulations

REGULATORY DOCKET FILE COPY

None  
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Mr. Robert Baer, Chief

-2-

July 6, 1979

Accordingly, it is respectfully requested that the information which is proprietary to Bechtel Power Corporation be withheld from public disclosure in accordance with 10CFR Section 2.790 of the Commissions regulations. If you should have any questions concerning the proprietary nature of material transmitted herewith, please address these questions directly to:

Mr. R. L. Rogers  
Project Engineer  
SONGS 2 & 3  
Los Angeles Power Division  
P. O. Box 60860, Terminal Annex  
Los Angeles, California 90060

We also request that you provide a copy of any questions concerning the proprietary nature of this submittal to SCE.

Very truly yours,



J. G. Haynes  
Chief of Nuclear Engineering

Enclosures

LIST OF ENCLOSED RESPONSES TO  
STRUCTURAL AUDIT REQUEST ITEMSSTRUCTUREREQUEST ITEMS

Containment Building	19 8,20	Proprietary Non-Proprietary
Auxiliary Building	7 8	Non-Proprietary Proprietary
Fuel Handling Building	7	Proprietary
Polar Crane Supports	1	Non-Proprietary
Spent Fuel Pool Crane Supports	3,4	Proprietary
Intake Structure and Box Conduit	1,3,4,5,6,7	Non-Proprietary

NUCLEAR REGULATORY COMMISSION

APPLICATION FOR OPERATING LICENSE  
at  
SAN ONOFRE NUCLEAR GENERATING STATION  
UNIT NO. 2  
by  
SOUTHERN CALIFORNIA EDISON COMPANY  
and  
SAN DIEGO GAS & ELECTRIC COMPANY

DOCKET NO.'s 50-361  
50-362  
AFFIDAVIT IN SUPPORT OF  
NON-DISCLOSURE APPLICATION  
OF BECHTEL POWER CORPORATION  
  
(10 C.F.R. 2.790-b)

State of California  
County of Los Angeles

SS.

Comes now the affiant, Loren G. Hinkelman, and, being first duly sworn, deposes and says:

1. That I am a Vice President of Bechtel Power Corporation and Manager of Domestic Operations for the Los Angeles Power Division of Bechtel Power Corporation.
2. That Southern California Edison Company and San Diego Gas & Electric Company, on the one hand, and Bechtel Power Corporation, on the other hand, executed a contract for, inter alia, the engineering and design services for Unit No. 2 of the San Onofre Nuclear Generating Station.
3. That such engineering and design services are being performed by the Los Angeles Power Division of Bechtel Power Corporation.
4. That, based on my information and belief, Southern California Edison Company and San Diego Gas & Electric Company have applied for an operating license for Unit No. 2 of the San Onofre Nuclear Generating Station.
5. That, based on my information and belief, the staff of the Nuclear Regulatory Commission, as part of their review of the operating license application, has been conducting an audit of certain structural designs performed by Bechtel Power Corporation for Unit No. 2.
6. That the staff of the Nuclear Regulatory Commission has requested a copy of the following structural calculations for the limited purpose of documenting the scope of their audit:

a. Containment Structure

Paper on "Seismic Loading Criteria for Circular Basement Design" and calculation package for overturning safety factor based on the non-linear energy equilibrium analysis methodology.

b. Auxiliary Building

- 1) Calculations for the control area slab at Elev. 50 for OBE loadings.
- 2) Calculations for the steel column which supports the truss at Elev. 70.

c. Fuel Handling Building

Pages 27 to 75 of calculation package analyzing the effects of a cask drop on the operating deck of the Fuel Handling Building.

d. Spent Fuel Crane Supports

- 1) Calculation package for the design of the Cask Handling Crane support bracket on the south wall of the Unit 2 Fuel Handling Building including results of calculations for the interaction between the column design movement and axial load.
- 2) Calculation package which verifies compliance of the concrete girder supporting the Cask Handling Crane with SRP criteria.

7. That Bechtel Power Corporation hereby proposes that all documents identified in Paragraph 6 above shall not be disclosed in whole or in part for the following reasons:

- a. The documents contain trade secrets of Bechtel Power Corporation.
- b. The documents contain proprietary and confidential commercial information and data of Bechtel Power Corporation.
- c. The documents contain proprietary and confidential discoveries and publications of Bechtel Power Corporation.
- d. The calculations, which are highly technical and interrelated with other calculations, are subject to being taken out of context, misinterpreted, or misconstrued.

8. That the following considerations are applicable to the reasons set forth in Paragraph 7 above:

- a. The information has been held in confidence by Bechtel Power Corporation.
- b. The information is of a type customarily held in confidence by Bechtel Power Corporation and there are rational bases therefor as set forth in Paragraph 7 above and in this Paragraph.
- c. The information has been and is being transmitted to the Nuclear Regulatory Commission in confidence.
- d. The information is not available in public sources.
- e. Public disclosure of the information is likely to cause substantial harm to the competitive position of Bechtel Power Corporation for the following reasons:
  - 1) The information is valuable to Bechtel Power Corporation because it represents unique approaches and capabilities for resolving complex safety, technical, commercial and industry factors to comply with applicable laws, statutes and regulations.
  - 2) Substantial and significant effort and money has been and is being, expended by Bechtel Power Corporation to develop, acquire and maintain the necessary expertise and capability in these highly specialized areas.
  - 3) Others would have difficulty in properly acquiring or duplicating the information which represents special applications of theoretical principles, complex analytical procedures and sophisticated design techniques.

BECHTEL POWER CORPORATION

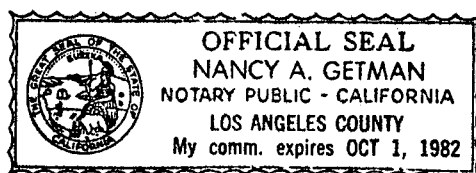
By:

Loren G. Hinkelman  
Loren G. Hinkelman

Title: Vice President

Subscribed and sworn to before me this 18<sup>th</sup> day of June, 1979.

Nancy A. Getman  
Notary Public



DOCKET NO. 50-361/362  
DATE: 7-17-79

NOTE TO NRC AND/OR LOCAL PUBLIC DOCUMENT ROOMS

The following item submitted with letter dated 7-6-79  
from Southern California Edison Co. is being withheld from public  
disclosure in accordance with Section 2.790.

PROPRIETARY INFORMATION

Responds to Structural Audit info. requests

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Roland Wood  
O/G

Distribution Service's Branch