

July 29, 1988

Docket No. 50-206

DISTRIBUTION
 Docket File
 NRC & LPDRs
 CTrammell (2)
 GHolahan
 JLee
 OGC-White Flint
 PDV Plant File
 EJordan
 BGrimes
 ACRS (10)
 JStewart
 JKnox
 HRichings

Mr. Kenneth P. Baskin
 Vice President
 Southern California Edison Company
 2244 Walnut Grove Avenue
 Post Office Box 800
 Rosemead, California 91770

Dear Mr. Baskin:

SUBJECT: NUCLEAR INSTRUMENTATION SYSTEM UPGRADE
 (TAC NO. 67902)

Re: San Onofre Nuclear Generating Station, Unit No. 1

In reviewing your amendment application dated April 15, 1988, relating to the nuclear instrumentation system upgrade, we have determined that the additional information identified in the enclosure is needed to continue our review. In order to maintain our review schedule, your response is requested within 30 days of your receipt of this letter.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under Pub. L. 96-511.

Please contact us if you should have any questions regarding this request.

Sincerely,

original signed by

Charles M. Trammell, Senior Project Manager
 Project Directorate V
 Division of Reactor Projects - III,
 IV, V and Special Projects

Enclosure:
 Request for Additional Information

cc w/enclosure:
 See next page

8808180300 880722
 PDR ADDCK 05000206
 PDC

DRSP/PD5
 CTrammell:
 7/29/88

SELB/NRF
 FRoss
 7/28/88

DRSP/PD5
 GKnighton
 7/29/88

DFOL
 1/1

OFFICIAL RECORD COPY

July 29, 1988

Docket No. 50-206

DISTRIBUTION

Mr. Kenneth P. Baskin
Vice President
Southern California Edison Company
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

Docket File
NRC & LPDRs
CTrammell (2)
GHolahan
JLee
OGC-White Flint
PDV Plant File
EJordan
BGrimes
ACRS (10)
JStewart
JKnox
HRichings

Dear Mr. Baskin:

SUBJECT: NUCLEAR INSTRUMENTATION SYSTEM UPGRADE
(TAC NO. 67902)

Re: San Onofre Nuclear Generating Station, Unit No. 1

In reviewing your amendment application dated April 15, 1988, relating to the nuclear instrumentation system upgrade, we have determined that the additional information identified in the enclosure is needed to continue our review. In order to maintain our review schedule, your response is requested within 30 days of your receipt of this letter.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under Pub. L. 96-511.

Please contact us if you should have any questions regarding this request.

Sincerely,

original signed by

Charles M. Trammell, Senior Project Manager
Project Directorate V
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosure:
Request for Additional Information

cc w/enclosure:
See next page

DRSP/PD5
CTrammell:
1 29/88

SELB/NRF
FRost
7/28/88

DRSP/PD5
GKnigh ton
29/88

OFFICIAL RECORD COPY



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

July 29, 1988

Docket No. 50-206

Mr. Kenneth P. Baskin
Vice President
Southern California Edison Company
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

Dear Mr. Baskin:

SUBJECT: NUCLEAR INSTRUMENTATION SYSTEM UPGRADE
(TAC NO. 67902)

Re: San Onofre Nuclear Generating Station, Unit No. 1

In reviewing your amendment application dated April 15, 1988, relating to the nuclear instrumentation system upgrade, we have determined that the additional information identified in the enclosure is needed to continue our review. In order to maintain our review schedule, your response is requested within 30 days of your receipt of this letter.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under Pub. L. 96-511.

Please contact us if you should have any questions regarding this request.

Sincerely,

A handwritten signature in cursive script that reads "Charles M. Trammell".

Charles M. Trammell, Senior Project Manager
Project Directorate V
Division of Reactor Projects - III,
IV, V and Special Projects

Enclosure:
Request for Additional Information

cc w/enclosure:
See next page

Mr. Kenneth P. Baskin
Southern California Edison Company

San Onofre Nuclear Generating
Station, Unit No. 1

cc

Charles R. Kocher, Assistant
General Counsel
James Beoletto, Esquire
Southern California Edison Company
Post Office Box 800
Rosemead, California 91770

Mr. Jack McGurk, Acting Chief
Radiological Health Branch
State Department of Health
Services
714 P Street, Office Bldg. 8
Sacramento, California 95814

David R. Pigott
Orrick, Herrington & Sutcliffe
600 Montgomery Street
San Francisco, California 94111

Mr. Hans Kaspar, Executive Director
Marine Review Committee, Inc.
531 Encinitas Boulevard, Suite 105
Encinitas, California 92024

Mr. Robert G. Lacy
Manager, Nuclear
San Diego Gas & Electric Company
P. O. Box 1831
San Diego, California 92112

Mr. Dennis M. Smith, Chief
Radiological Programs Division
Governor's Office of Emergency Svcs.
State of California
2800 Meadowview Road
Sacramento, California 95832

Resident Inspector/San Onofre NPS
U.S. NRC
P. O. Box 4329
San Clemente, California 92672

Mayor
City of San Clemente
San Clemente, California 92672

Chairman
Board of Supervisors
County of San Diego
1600 Pacific Highway Room 335
San Diego, California 92101

Director
Energy Facilities Siting Division
Energy Resources Conservation &
Development Commission
1516 - 9th Street
Sacramento, California 95814

Regional Administrator, Region V
U.S. Nuclear Regulatory Commission
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

ENCLOSURE

REQUEST FOR ADDITIONAL INFORMATION
CONCERNING A DC SYSTEM DESIGN AND TECHNICAL SPECIFICATION CHANGE
DATED APRIL 15, 1988
SAN ONOFRE, UNIT 1

- 1) Provide a description of the proposed design change (i.e., the upgrade replacement of the NIS) as it relates to the dc and ac electric power systems.
- 2) In support of the replacement upgrade of the Nuclear Instrumentation System (NIS), as indicated by letter dated April 15, 1988, the upgrade of the NIS will increase the dc system load. As a consequence of this increased load, the margin of safety for dc system capacity and capability will be reduced. The significant hazards consideration analysis (which states that the revision to the battery test acceptance criterion from 80 to 85 percent will serve to ensure that an existing safety margin is maintained) does not adequately address reduced margin of safety for dc system capacity and capability due to increased load. For each component part of the dc system (battery, charger, and distribution system components) that will be required to supply the increased load, provide the results of your analysis which demonstrates that the dc system can adequately accommodate the increased load.
- 3) The significant hazards consideration analysis states that the battery specification revision (i.e., acceptance criteria for battery capacity revised from 80 to 85 percent) provides assurance that the system is tested in a manner consistent with its recalculated duty cycle. It is not clear how replacing a battery when its capacity reaches 85 percent assures a battery is capable of meeting its duty cycle. Provide the results of an analysis to indicate the extent to which recommendations of IEEE Standard 485-1983 have been followed in assuring adequately sized batteries at San Onofre Unit 1.
- 4) Section 4.2.5 of the Safety Review Report for the NIS indicates that each redundant channel set of the NIS is energized from a separate ac power source. This section, thus implies that there will be four physically and electrically separated ac sources supplying the NIS. Verify that this is so and provide a description of these power sources and their physical and electrical separation. If this is not the case, provide the results of an analysis which demonstrates that the existing electric power system design, which will supply the new NIS design, will not compromise the independence requirement for the NIS.