

November 15, 2007

Mr. Richard M. Rosenblum  
Senior Vice President and Chief Nuclear Officer  
Southern California Edison Company  
San Onofre Nuclear Generating Station  
P.O. Box 128  
San Clemente, CA 92674-0128

SUBJECT: SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3 - REQUEST FOR  
ADDITIONAL INFORMATION REGARDING THE 2006 STEAM GENERATOR  
TUBE INSPECTIONS (TAC NO. MD5953)

Dear Mr. Rosenblum:

By letter dated May 25, 2007 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML071520093), Southern California Edison (the licensee) submitted information pertaining to their 2006 steam generator (SG) tube inspections at the San Onofre Nuclear Generating Station, Unit 3. In addition to the above report, the U.S. Nuclear Regulatory Commission (NRC) staff, in its letter dated December 18, 2006 (ADAMS Accession No. ML063450305), summarized conference call discussions concerning the 2006 SG tube inspections at San Onofre, Unit 3.

After reviewing the submitted information, the NRC staff has determined that additional information is needed to complete the review evaluation. Please provide a response to the enclosed request for additional information within 30 days of the receipt of this letter.

If you have any questions, please contact me at (301) 415-1480.

Sincerely,

/RA/

N. Kalyanam, Project Manager  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-362

Enclosure: Request for Additional Information

cc w/encl: See next page

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**ADAMS Accession No.: ML073111398 NRR-088 \*No major change from Staff provided RAI**

OFFICE	NRR/LPL4/PM	NRR/LPL4/LA	NRR/DCI/CSGB*	NRR/LPL4/BC
NAME	NKalyanam:sp	JBurkhardt	AHiser	THiltz
DATE	11/15/07	11/9/07		11/15/07

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San Onofre Nuclear Generating Station  
Units 2 and 3

cc:

Mr. Raymond W. Waldo, Vice President,  
Nuclear Generation  
Southern California Edison Company  
San Onofre Nuclear Generating Station  
P.O. Box 128  
San Clemente, CA 92674-0128

Mr. Douglas K. Porter, Esquire  
Southern California Edison Company  
2244 Walnut Grove Avenue  
Rosemead, CA 91770

Dr. David Spath, Chief  
Division of Drinking Water and  
Environmental Management  
California Dept. of Health Services  
850 Marina Parkway, Bldg P, 2<sup>nd</sup> Floor  
Richmond, CA 94804

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

Mark L. Parsons  
Deputy City Attorney  
City of Riverside  
3900 Main Street  
Riverside, CA 92522

Mr. Gary L. Nolff  
Assistant Director - Resources  
City of Riverside  
3900 Main Street, 4<sup>th</sup> Floor  
Riverside, CA 92522

Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

Mr. Michael L. DeMarco  
San Diego Gas & Electric Company  
8315 Century Park Ct. CP21G  
San Diego, CA 92123-1548

Director, Radiologic Health Branch  
State Department of Health Services  
P.O. Box 997414, MS 7610  
Sacramento, CA 95899-7414

Resident Inspector  
San Onofre Nuclear Generating Station  
c/o U.S. Nuclear Regulatory Commission  
Post Office Box 4329  
San Clemente, CA 92674

Mayor  
City of San Clemente  
100 Avenida Presidio  
San Clemente, CA 92672

Mr. James T. Reilly  
Southern California Edison Company  
San Onofre Nuclear Generating Station  
P.O. Box 128  
San Clemente, CA 92674-0128

Mr. James D. Boyd, Commissioner  
California Energy Commission  
1516 Ninth Street (MS 31)  
Sacramento, CA 95814

Brian Katz  
Southern California Edison Company  
San Onofre Nuclear Generating Station  
P.O. Box 128  
San Clemente, CA 92674-0128

Mr. Steve Hsu  
Department of Health Services  
Radiologic Health Branch  
MS 7610, P.O. Box 997414  
Sacramento, CA 95899-7414

Mr. A. Edward Scherer  
Southern California Edison Company  
San Onofre Nuclear Generating Station  
P.O. Box 128  
San Clemente, CA 92674-0128

October 2007

REQUEST FOR ADDITIONAL INFORMATION  
STEAM GENERATOR TUBE INSERVICE INSPECTION REPORTS  
FOR THE 2006 REFUELING OUTAGE  
SAN ONOFRE NUCLEAR GENERATING STATION – UNIT 3  
DOCKET NUMBER 50-362

1. Please provide the scope and results of any secondary side inspections (including foreign object search and retrieval) performed during the 2006 outage. In addition, please discuss the scope and results of any inspections performed of the batwings in the stay cavity regions. Please confirm that all detected loose parts were removed from the steam generator (SG). If loose parts were left in the SG, please discuss whether analyses were performed to assess whether tube integrity would be maintained with the loose parts left in the SG.
2. Please discuss the data quality and as low as reasonably achievable (ALARA) issues that led to plugging two tubes. Please discuss how you confirmed that tube integrity was maintained for these two tubes.
3. Please discuss the basis for only performing rotating probe inspections of the U-bend region out through row 10 (given that a similarly designed unit has found axial cracking in the U-bend in row 14).
4. In evaluating the nondestructive examination techniques in Table 3 of Reference 1, it does not appear that you inspected for axial and circumferential primary water stress-corrosion cracks in dings or circumferentially oriented outside diameter stress-corrosion cracks in dings. Please confirm that the techniques used to inspect the dings were capable of finding these degradation mechanisms. In addition, please clarify what rows of tubes are considered “low row” U-bends, and please clarify what degradation mechanisms were inspected for in the U-bend region.
5. Please confirm that Table 4 in Reference 1 contains all crack-like (axial, circumferential, or mixed-mode) indications detected during the SG tube inspections. Please confirm that all crack-like indications were plugged.
6. Several wear indications appear to be outside the tube supports (e.g., row 49, column 129 in SG 89). Please discuss whether any wear indication was located outside the tube support. If so, discuss the extent to which the support may have moved due to degradation of the support.

Reference:

1. Letter from A. E. Scherer to USNRC dated May 5, 2007, “Special Report: Inspection of Steam Generator Tubes, Cycle 14,” (Agencywide Documents Access and Management System (ADAMS) Accession No. ML071520093).