

January 22, 2008

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 2 - SUMMARY OF
DECEMBER 14, 2007, DISCUSSIONS ON STEAM GENERATOR TUBE
INSPECTIONS (TAC NO. MD7406)

Dear Mr. Rosenblum:

On December 14, 2007, the U.S. Nuclear Regulatory Commission (NRC) staff participated in a conference call with Southern California Edison (SCE) representatives regarding the 2007 steam generator tube inspections at San Onofre Nuclear Generating Station, Unit 2. A summary of the December 14, 2007, conference call is provided in the enclosure; the information supplied by SCE, in support of these discussions (handouts), is provided in an attachment to the enclosure. The NRC staff did not identify any issues that would warrant preventing the plant from starting up following its 15th refueling outage.

If you have any questions, please call 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. 50-361

Enclosure: Summary of conference call

cc w/encl: See next page

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Units 2 and 3

(12/5/2007)

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SUMMARY OF DECEMBER 14, 2007, CONFERENCE CALL WITH
SOUTHERN CALIFORNIA EDISON REGARDING THE FALL 2007
STEAM GENERATOR TUBE INSPECTION AT
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2
DOCKET NO. 50-361

On December 14, 2007, U.S. Nuclear Regulatory Commission staff participated in a conference call with Southern California Edison (the licensee) representative regarding the fall 2007 (2C15) steam generator (SG) tube inspection activities at San Onofre Nuclear Generating Station Unit 2 (SONGS 2). Prior to the conference call, the licensee provided a handout to facilitate the discussion. The conference call summarized below is based on the information provided by the licensee prior to the call.

Background information on the SONGS 2 SGs is provided on page 2 of the attachment. The SGs were originally designed with 9350 Alloy 600 mill annealed tubes. Through four separate outages, a total of 345 tubes in SG 88 and 189 tubes in SG 89 were sleeved. At the beginning of the current refueling outage, there were a total of 256 sleeves remaining in service. The Combustion Engineering-designed sleeves have a welded upper joint and a rolled lower joint.

This is the last eddy current inspection planned for these SGs. They are scheduled to be replaced during the fall 2009 refueling outage.

At the time of the call, eddy current testing (ECT) inspection by the bobbin probe was complete and approximately 98 percent of the ECT by +Point inspections were complete.

Additional clarifying information or information not included in the document provided by the licensee is summarized below.

Acronyms used by the licensee in the attachment include:

| | | | | | |
|------|-------|----------------------------|------|-------|---------------------------|
| EFPY | ----- | effective full power years | TSP | ----- | tube support plate |
| TSH | ----- | tubesheet hot | TSC | ----- | tubesheet cold |
| TW | ----- | through wall | FLDA | ----- | flaw length degraded area |
| SAI | ----- | single axial indication | EC | ----- | egg crate |
| ET | ----- | eddy current testing | PDA | ----- | percent degraded area |
| CA | ----- | crack angle | | | |

(PDA and CA only apply to circumferential indications)

The +Point probe exams in the tubesheet region were from 13 inches below the top of the tubesheet to 4 inches above the top of tubesheet to ensure the tubes were examined through the sludge pile.

Visual inspection for foreign objects was conducted in the annular region and center lane of the tubesheet. No foreign objects were identified during this outage.

ENCLOSURE

The criterion for preventatively plugging tubes due to tube support wear is > 30 percent through wall.

One sleeve in each generator was found partially obstructed. The tubes with these obstructed sleeves were scheduled to be plugged. These sleeves were both installed in the 1999 refueling outage. Even though the sleeves were partially obstructed, it was still possible to examine the sleeves with the eddy current probe.

Tube 31-165 in SG 88 has multiple axial indications at the fifth hot leg tube support plate. The indications are not aligned.

The diagonal bar tube supports (batwings) were verified intact through review of the bobbin coil eddy current data. There were no secondary side visual inspections in this region. Refer to Agencywide Documents Access and Management System (ADAMS) Accession No. ML063040307, "Response to Request for Additional Information Regarding Report of Inservice Inspection of Steam Generator Tubes, Cycle 14," for more details on how the operating experience from a similar unit has been factored into the SONGS 2 inspection and data analysis techniques. SONGS 2 performed chemical cleaning of their SGs in refueling outage 2C9.

The staff did not identify any issues that required follow-up action at this time; however, the staff asked to be notified in the event that any unusual conditions were detected during the remainder of the outage.

ATTACHMENT

SONGS Unit 2 Handout