



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

June 29, 2015

Mr. Randall K. Edington
Executive Vice President Nuclear/
Chief Nuclear Officer
Mail Station 7602
Arizona Public Service Company
P.O. Box 52034
Phoenix, AZ 85072-2034

**SUBJECT: PALO VERDE NUCLEAR GENERATING STATION, UNIT 2 – REVIEW OF THE
2014 STEAM GENERATOR TUBE INSPECTIONS DURING REFUELING
OUTAGE 18 (TAC NO. MF5053)**

Dear Mr. Edington:

By letter dated October 10, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14288A371), as supplemented by letter dated April 1, 2015 (ADAMS Accession No. ML15097A170), Arizona Public Service Company (the licensee) submitted information summarizing the results of the spring 2014 steam generator tube inspections performed at Palo Verde Nuclear Generating Station, Unit 2. These inspections were performed during refueling outage 18 (RFO 18). By letter dated June 2, 2014 (ADAMS Accession No. ML14150A177), the U.S. Nuclear Regulatory Commission (NRC) staff summarized a conference call that was held with the licensee during RFO 18.

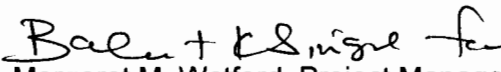
The NRC staff has completed its review of the submittals and concludes that the licensee provided the information required by its technical specifications. In addition, the NRC staff concludes that there are no technical issues that warrant follow-up actions at this time. The staff's review of the reports is enclosed.

R. Edington

- 2 -

If you have any questions, please contact me at (301) 415-1233 or via e-mail at Margaret.Watford@nrc.gov.

Sincerely,


Margaret M. Watford, Project Manager
Plant Licensing Branch IV-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. STN 50-529

Enclosure:
As stated

cc w/encl: Distribution via Listserv

STAFF REVIEW OF RESULTS OF SPRING 2014 STEAM GENERATOR TUBE
INSERVICE INSPECTIONS PERFORMED DURING REFUELING OUTAGE 18

ARIZONA PUBLIC SERVICE COMPANY

PALO VERDE NUCLEAR GENERATING STATION, UNIT 2

DOCKET NO. STN 50-529

By letter dated October 10, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14288A371), as supplemented by letter dated April 1, 2015 (ADAMS Accession No. ML15097A170), Arizona Public Service Company (the licensee) submitted information summarizing the results of the spring 2014 steam generator (SG) tube inspections performed at Palo Verde Nuclear Generating Station (PVNGS), Unit 2. These inspections were performed during refueling outage 18 (RFO 18). By letter dated June 2, 2014 (ADAMS Accession No. ML14150A177), the U.S. Nuclear Regulatory Commission staff summarized a conference call that was held with the licensee during RFO 18 regarding the spring 2014 SG tube inspection activities.

PVNGS, Unit 2 has two replacement SGs designed by Combustion Engineering and fabricated by Ansaldo Energia. Each steam generator has 12,580 thermally treated Alloy 690 tubes with a nominal outside diameter of 0.750 inches and a nominal wall thickness of 0.042 inches. The tubes are arranged in a triangular pitch with 0.866-inch spacing. The tubes were hydraulically expanded at each end for the full depth of the tubesheet. The tubes are supported by horizontal lattice grid supports, batwing (diagonal) supports, and vertical straps. All tube supports are constructed from Type 409 stainless steel.

The licensee provided the scope, extent, methods, and results of its SG tube inspections in the documents referenced above. In addition, the licensee described corrective actions (i.e., tube plugging) taken in response to the inspection findings.

Based on a review of the information provided, the NRC staff concludes that the licensee provided the information required by its technical specifications. In addition, the NRC staff concludes that there are no technical issues that warrant follow-up action at this time, since the inspections appear to be consistent with the objective of detecting potential tube degradation and the inspection results appear to be consistent with industry operating experience at similarly designed and operated units.

Enclosure

R. Edington

- 2 -

If you have any questions, please contact me at (301) 415-1233 or via e-mail at Margaret.Watford@nrc.gov.

Sincerely,

/RA Balwant Singal for/

Margaret M. Watford, Project Manager
Plant Licensing Branch IV-1
Division of Operating Reactor Licensing
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ADAMS Accession No. ML15177A108

*concurrence via memo dated June 4, 2015

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