



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

November 4, 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 3 – REVIEW OF THE
STEAM GENERATOR TUBE INSPECTION REPORT FOR THE SPRING 2015
REFUELING OUTAGE (CAC NO. MF6761)

Dear Mr. Edington:

By letter dated September 23, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15267A269), Arizona Public Service Company (the licensee) submitted information summarizing the results of the spring 2015 steam generator (SG) tube inspections at the Palo Verde Nuclear Generating Station (PVNGS), Unit 3. These inspections were performed during the 18th refueling outage of Unit 3.

The U.S. Nuclear Regulatory Commission (NRC) staff has completed its review of the information and concludes that the licensee has provided the information required by the PVNGS, Unit 3 Technical Specifications. No additional follow-up is necessary at this time. The NRC staff's review of the SG tube inspection report is enclosed.

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

Sincerely,

A handwritten signature in black ink, appearing to read "MWatford".

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

Docket No. STN 50-530

Enclosure:
Review of the Results of the Spring 2015
Steam Generator Tube Inspections

cc w/encl: Distribution via Listserv

REVIEW OF RESULTS OF THE SPRING 2015 STEAM GENERATOR TUBE INSPECTIONS

ARIZONA PUBLIC SERVICE COMPANY

PALO VERDE NUCLEAR GENERATING STATION, UNIT 3

DOCKET NO. STN 50-530

By letter dated September 23, 2015 (Agencywide Documents Access and Management System Accession No. ML15267A269), Arizona Public Service Company (the licensee) submitted information summarizing the results of the spring 2015 steam generator (SG) tube inspections at the Palo Verde Nuclear Generating Station (PVNGS), Unit 3. These inspections were performed during the 18th refueling outage of Unit 3.

PVNGS, Unit 3, has two replacement SGs manufactured by Ansaldo. Each SG has 12,580 thermally treated Alloy 690 tubes with an outside diameter of 0.750 inches and a wall thickness of 0.042 inches. Ferritic stainless steel eggcrate tube supports, diagonal bars, and vertical straps support the tubes at various locations.

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

The following observations are noted in regard to the licensee's 2015 inspections:

- Two steam separators were slightly tilted and in contact with adjacent drain lines. The tilted separators' Marmon clamps were inspected and found to be secure with acceptable bolted connections. Furthermore, both of the tilted steam separators were secure and not loosened. The tilted steam separators are not considered a tube integrity concern and will be evaluated under PVNGS's Engineering Work Request process.

Based on a review of the information provided, the U.S. Nuclear Regulatory Commission (NRC) staff concludes that the licensee provided the information required by the PVNGS, Unit 3, 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 inspection results appear to be consistent with industry operating experience at similarly designed and operated units.

Enclosure

November 4, 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 3 – REVIEW OF THE
STEAM GENERATOR TUBE INSPECTION REPORT FOR THE SPRING 2015
REFUELING OUTAGE (CAC NO. MF6761)

Dear Mr. Edington:

By letter dated September 23, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15267A269), Arizona Public Service Company (the licensee) submitted information summarizing the results of the spring 2015 steam generator (SG) tube inspections at the Palo Verde Nuclear Generating Station (PVNGS), Unit 3. These inspections were performed during the 18th refueling outage of Unit 3.

The U.S. Nuclear Regulatory Commission (NRC) staff has completed its review of the information and concludes that the licensee has provided the information required by the PVNGS, Unit 3 Technical Specifications. No additional follow-up is necessary at this time. The NRC staff's review of the SG tube inspection report is enclosed.

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

Sincerely,

/RA/

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

Docket No. STN 50-530

Enclosure:
Review of the Results of the Spring 2015
Steam Generator Tube Inspections

cc w/encl: Distribution via Listserv

DISTRIBUTION:

PUBLIC

LPL4-1 r/f

RidsAcrsAcnw_MailCTR Resource

RidsNrrDeEsgb Resource

RidsNrrDorlLpl4-1 Resource

RidsNrrPMPaloVerde Resource

RidsNrrLAJBurkhardt Resource

RidsRgn4MailCenter Resource

KKarwoski, NRR/DE/ESGB

GKulesa, NRR/DE/ESGB

AHuynh, NRR/DE/ESGB

AJohnson, NRR/DE/ESGB

ADAMS Accession No. ML15281A202

*via memo

OFFICE	NRR/DORL/LPL4-1/PM	NRR/DORL/LPL4-1/LA	NRR/DE/ESGB/BC	NRR/DORL/LPL4-1/BC	NRR/DORL/LPL4-1/PM
NAME	MWatford	JBurkhardt	GKulesa*	RPascarelli	MWatford
DATE	11/2/15	11/2/15	10/8/15	11/4/15	11/4/15

OFFICIAL RECORD COPY