



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

February 25, 2013

Mr. Michael J. Pacilio  
Senior Vice President  
Exelon Generation Company, LLC  
President and Chief Nuclear Officer (CNO)  
Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: BRAIDWOOD NUCLEAR POWER STATION, UNIT 1 - REVIEW OF THE  
SPRING 2012 STEAM GENERATOR TUBE INSERVICE INSPECTIONS  
(TAC NO. ME9505)

Dear Mr. Pacilio:

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated August 17, 2012 (Agencywide Documents Access Management Systems (ADAMS) Accession No. ML12249A057), Exelon Generation Company, LLC (the licensee), submitted information summarizing the results of their 2012 steam generator tube inspections performed during refueling outage 16 at Braidwood Nuclear Power Station, Unit 1 (Braidwood 1).

The NRC staff has completed its review of the report and concludes that the licensee provided the information required by the Braidwood 1 technical specifications. No additional follow-up is required at this time. The NRC staff's review is enclosed.

If you have any questions regarding the enclosure, please contact me at (301) 415-6606.

Sincerely,

A handwritten signature in cursive script that reads "Joel S. Wiebe".

Joel S. Wiebe, Senior Project Manager  
Plant Licensing Branch III-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. STN 50-456

Enclosure:  
Summary of NRC Staff Review

cc w/encl: Listserv

SUMMARY OF NRC STAFF REVIEW OF THE STEAM GENERATOR TUBE INSERVICE

INSPECTION FOR REFUELING OUTAGE 16

BRAIDWOOD NUCLEAR POWER STATION, UNIT NO. 1

DOCKET NO. STN 50-456

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated August 17, 2012, (Agencywide Documents Access and Management Systems (ADAMS) Accession No. ML12249A057), Exelon Generation Company, LLC, the licensee, submitted information summarizing the results of the 2012 steam generator (SG) tube inspections performed at Braidwood, Unit 1.

Braidwood Station, Unit 1, has four recirculating SGs designed and fabricated by Babcock and Wilcox International. Each SG has 6,633 thermally-treated, Alloy 690 tubes, that have an outside diameter of 0.6875 inches, and a nominal wall thickness of 0.040 inches. The tubes are supported by Type 410 stainless steel, lattice-grid tube supports, and flat fan bars. The tubes were hydraulically-expanded at each end for the full depth of the tubesheet.

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

In addition, the licensee clarified in an email that secondary side visual inspections were performed during the Spring 2012 outage. These inspections included:

- Top of tubesheet visual inspection and Foreign Object Search and Retrieval following sludge lancing in each SG,
- Feed water feeding visual inspection in SG C,
- Steam drum visual inspection in SG C,
- Upper tube bundle inspection in SG C.

No anomalies or degradation were found in any of these visual inspections. A few minor foreign objects were found and either retrieved or evaluated.

Based on a review of the information provided, the staff concludes that the licensee provided the information required by the 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.

Primary Contributor: C. Hunt

Enclosure

Mr. Michael J. Pacilio  
Senior Vice President  
Exelon Generation Company, LLC  
President and Chief Nuclear Officer (CNO)  
Exelon Nuclear  
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If you have any questions regarding the enclosure, please contact me at (301) 415-6606.

Sincerely,

/ RA /

Joel S. Wiebe, Senior Project Manager  
Plant Licensing Branch III-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. STN 50-456

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Summary of NRC Staff Review

cc w/encl: Listserv

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ADAMS Accession No. : ML13051B143

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