



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

April 3, 2015

Vice President, Operations
Entergy Operations, Inc.
Waterford Steam Electric Station, Unit 3
17265 River Road
Killona, LA 70057-3093

SUBJECT: WATERFORD STEAM ELECTRIC STATION, UNIT 3 – REQUEST FOR
ADDITIONAL INFORMATION REGARDING THE SPRING 2014 STEAM
GENERATOR TUBE INSPECTIONS (TAC NO. MF5174)

Dear Sir or Madam:

By letter dated November 6, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14314A032), Entergy Operations, Inc. (the licensee), submitted information summarizing the results of the spring 2014 steam generator tube inspections performed at Waterford Steam Electric Station, Unit 3. These inspections were performed during refueling outage 19. By letter dated October 7, 2014 (ADAMS Accession No. ML14150A100), the U.S. Nuclear Regulatory Commission (NRC) staff summarized a conference call held with the licensee regarding the spring 2014 steam generator tube inspections.

The NRC staff has reviewed the information and determined that additional information is needed in order to complete the review. Please provide the additional information requested in the enclosure within 45 days of receipt of this letter.

If you have any questions, please contact me at 301-415-3229 or via e-mail at michael.orenak@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael D. Orenak".

Michael D. Orenak, Project Manager
Plant Licensing IV-2 and Decommissioning
Transition Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-382

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv



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REQUEST FOR ADDITIONAL INFORMATION

REGARDING THE SPRING 2014 STEAM GENERATOR TUBE INSPECTIONS

ENERGY OPERATIONS, INC.

WATERFORD STEAM ELECTRIC STATION, UNIT 3

DOCKET NO. 50-382

By letter dated November 6, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14314A032), Entergy Operations, Inc. (the licensee), submitted information summarizing the results of the spring 2014 steam generator tube inspections performed at Waterford Steam Electric Station, Unit 3 (WF3). These inspections were performed during refueling outage 19 (RFO 19). By letter dated October 7, 2014 (ADAMS Accession No. ML14150A100), the U.S. Nuclear Regulatory Commission (NRC) staff summarized a conference call held with the licensee regarding the spring 2014 steam generator tube inspections.

In order to complete its review, the NRC staff requests the following additional information:

1. General information concerning the design of WF3's replacement steam generators (SGs) was provided in the submittal. In order for the NRC staff to better understand the design of the replacement SGs, please provide the following information:
 - a. Tube manufacturer
 - b. Tube pitch (e.g., 1.00-inch center-to-center)
 - c. Expansion method (e.g., hydraulic expansion)
 - d. Flow distribution baffle design and shape of openings, if applicable
 - e. Whether tubes were stress relieved after bending, and if so, the rows that were stress relieved
 - f. The smallest U-bend radius
 - g. Tubesheet thickness with and without clad
2. With regard to the secondary side inspections performed during RFO 19 (i.e., visual inspections of the upper steam drum, feed ring, spray nozzles, and support structures), please confirm no degradation was observed.

Enclosure

April 3, 2015

Vice President, Operations
Entergy Operations, Inc.
Waterford Steam Electric Station, Unit 3
17265 River Road
Killona, LA 70057-3093

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/RA/
Michael D. Orenak, Project Manager
Plant Licensing IV-2 and Decommissioning
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ADAMS Accession No. ML15082A297

***via memo**

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NAME	MOrenak	PBlechman (JBurkhardt for)	GKulesa*	MKhanna	MOrenak
DATE	3/27/15	3/30/15	3/18/15	4/1/15	4/3/15

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