

February 26, 2007

MEMORANDUM TO: David Terao, Branch Chief  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing

FROM: Mel B. Fields, Senior Project Manager **/RA by N Kalyanam for/**  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing

SUBJECT: FORTHCOMING MEETING WITH ENTERGY OPERATIONS, INC.  
REGARDING WATERFORD STEAM ELECTRIC STATION, UNIT 3  
STEAM GENERATOR BATWING DESIGN ISSUE

DATE & TIME: Thursday, March 22, 2007  
8:00 a.m. - 12:00 noon

LOCATION: U.S. Nuclear Regulatory Commission (NRC)  
One White Flint North  
11555 Rockville Pike, Room O-3 B4  
Rockville, Maryland 20852

PURPOSE: To discuss the technical issues, including the root cause and corrective actions taken, associated with the steam generator batwing failures at the Waterford Steam Electric Station, Unit 3 (see attached agenda).

CATEGORY 1: \* This is a Category 1 Meeting. The public is invited to observe this meeting and will have one or more opportunities to communicate with the NRC after the business portion, but before the meeting is adjourned.

Proprietary information may be discussed at certain times during this meeting. These portions of the meeting will be closed to members of the public who have not been granted access to the information by the owner of the information. See agenda for closed portions of the meeting.

PARTICIPANTS: Participants from the NRC include members of the Office of Nuclear Reactor Regulation and the Region IV Office.

<u>NRC</u>		<u>Entergy Operations, Inc.</u>	<u>Westinghouse</u>
J. Grobe	K. Karwoski	K. Walsh	W. Heilker
M. Evans	E. Murphy	R. Murillo	J. Hall
A. Hiser	M. Yoder	R. Putnam	W. Cullen
M. Fields, et al.		J. Burford	

Docket No. 50-382

Enclosure: Agenda (ADAMS Accession No. ML070530458)

cc w/encl: See next page

MEETING CONTACT: Mel B. Fields, NRR  
301-415-3062  
[mbf1@nrc.gov](mailto:mbf1@nrc.gov)

\* Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings" (67 FR 36920), May 28, 2002

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DATE	2-26-07	2/26/07	2/26/07

## **AGENDA**

**MEETING WITH ENERGY OPERATIONS, INC.**

**STEAM GENERATOR BATWING DESIGN ISSUE**

**WATERFORD STEAM ELECTRIC STATION, UNIT 3**

**MARCH 22, 2007**

### Background

During the 2005 refueling outage, inspections showed two tube support bar assemblies (batwings) were no longer attached properly in the stay cavity region of one of Waterford's steam generators (SG2). An operational assessment was made that concluded that the SGs could operate for at least one fuel cycle of operation without excessive tube wear occurring. During the 2006 refueling outage, inspections showed that a number of batwings in the stay cavity region of SG2 experienced significant deformations. In addition, it was determined that the batwing-to-wrap-around-bar attachment welds, located at the upper attachment point on the periphery of the SG tube bundle, were not per-design in SG2 and that two of the batwing-to-wrap-around-bar welds had failed. The Waterford licensee provided a number of commitments that it and the NRC considered necessary in order to support continued safe operation. One of the commitments was to meet with the Nuclear Regulatory Commission in the spring of 2007 to discuss operational SG performance and plans for a midcycle outage.

Introductions/Opening Remarks

8:00 a.m.

Objectives

Current Status

Discussion of Batwing Condition

Discussion of Industry Operating Experience Re: Batwing Degradation

Discussion of Operational Assessment of the Batwings (portions of this discussion may be proprietary)

Discussion of Licensee Commitments

Closing Remarks

Public Comment/Questions

Adjourn

12:00 noon

Waterford Steam Electric Station, Unit 3

cc:

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November 2006