



Entergy Nuclear South  
Entergy Operations, Inc.  
17265 River Road  
Killona, LA 70057-3093  
Tel 504-739-6715  
Fax 504-739-6698  
rmurill@entergy.com

Robert J. Murillo  
Licensing Manager, Acting  
Waterford 3

W3F1-2005-0060

September 22, 2005

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

**SUBJECT:** Submittal of Owner's Activity Report Form for Inservice  
Inspection Performed During Refueling Outage 13  
Waterford Steam Electric Station, Unit 3  
Docket No. 50-382  
License No. NPF-38

Dear Sir or Madam:

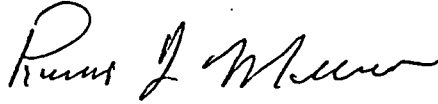
Attached is the subject report which covers the Owners Activity Report Form, OAR-1, for Waterford 3 refueling outage (RFO) 13, enclosed as Attachment 1. This report is being submitted in accordance with ASME Code Case N-532-1, "Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000," which was adopted for use at Waterford 3 commencing at the end of RFO-12. Entergy elected to voluntarily update to Rev. 1 of Code Case N-532 following the adoption of the code case in Revision 13 to Regulatory Guide 1.147.

The OAR-1 form is prepared and certified upon completion of each refueling outage. This OAR-1 form provides a summary of the examinations performed during the refueling outage in the third period of the second 10 year Inservice Inspection (ISI) interval. A copy of this letter and the attached report will also be submitted to the office of the Louisiana State Fire Marshall.

A047

There are no new commitments contained in this submittal. Should you any questions regarding this submittal, please contact Ron Williams at (504) 739-6255 or Richard Redmond at (504) 739-6963.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Ron Williams".

RJM/RLW/

Attachment 1      Owner's Activity Report for Inservice Inspection  
Performed During Refueling Outage 13

cc: Dr. Bruce S. Mallett  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011

NRC Senior Resident Inspector  
Waterford 3  
P.O. Box 822  
Killona, LA 70066-0751

U.S. Nuclear Regulatory Commission  
Attn: Mr. Nageswaran Kalyanam MS O-7D1  
Washington, DC 20555-0001

Wise, Carter, Child & Caraway  
Attn: J. Smith  
P.O. Box 651  
Jackson, MS 39205

Winston & Strawn  
Attn: N.S. Reynolds  
1700 K Street, NW  
Washington, DC 20006-3817

Louisiana Department of Environmental Quality  
Office of Environmental Compliance  
Surveillance Division  
P. O. Box 4312  
Baton Rouge, LA 70821-4312

American Nuclear Insurers  
Attn: Library  
Town Center Suite 300S  
29<sup>th</sup> S. Main Street  
West Hartford, CT 06107-2445

Morgan, Lewis & Bockius LLP  
ATTN: T.C. Poindexter  
1111 Pennsylvania Avenue, NW  
Washington, DC 20004

Charles Fredieu  
Office of the State Fire Marshall  
5150 Florida BLVD  
Baton Rouge, LA 70806

**ATTACHMENT 1**

**Owner's Activity Report for Inservice inspection**

**Performed During Refueling Outage 13**

# FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: Cycle 13 / Refuel 13

Owner: Entergy Operations, Inc., 1340 Echelon Parkway,  
Jackson, MS 39213  
(Name and Address of Owner)

Plant: Waterford Steam Electric Station, 17265 River Road,  
Killona, LA 70057  
(Name and Address of Plant)

Unit No.: 3 Commercial service date: 09/24/85 Refueling outage: 13

Current inspection interval: 2nd  
(1st, 2nd, 3rd, 4th, Other)

Current inspection period: 3rd  
(1st, 2nd, 3rd)

Edition & Addenda of Section XI applicable to inspection plan: 1992 Edition

Date and revision of inspection plan: 07/15/2001, Revision 10.

Edition & Addenda of Section XI applicable to repairs & replacements, if different than the inspection plan: N/A

## CERTIFICATE OF COMPLIANCE

I certify that the statements in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures presented by this report conform to the requirements of Section XI.

Certificate of Authorization No.: N/A Expiration Date: N/A  
(if applicable)

Signed: Richard G. Redmond Date: 08/24/2005  
Owner or Owner's Designee, Title

## CERTIFICATE OF INSERVICE INSPECTION

I, undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Louisiana and employed by ABS Group, INC. of Houston, Texas have inspected the items described in this Owner's Activity Report, during the period of November, 2003 to June, 2005 and states that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations and corrective measures described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Zafiro Cordero Commissions: LA, 1406, N I, NS  
Inspector's Signature National Board, State, Province, and Endorsements

Date: 08/24/2005

**TABLE 1**  
**ABSTRACT OF EXAMINATIONS AND TEST**

Exam Category	Total Examinations Required for the Interval	Total Examinations Credited for this Period	Total Examinations Credited (%) for the Period	Total Examinations Credited (%) to Date for the Interval	Remarks
B-A	26	0	0%	12%	None
B-B	8	0	0%	50%	None
B-D	34	0	0%	53%	Note 10
B-F	5	0	0%	60%	None
B-G-1	264	32	25%	63%	None
B-G-2	12	2	50%	83%	None
B-J	190	0	0%	59%	Note 10
B-K	4	0	0%	50%	None
B-L-1	0	0	-	-	Note 8
B-L-2	0	0	-	-	Note 8
B-M-1	1	0	0%	0%	None
B-M-2	1	0	0%	100%	None
B-N-1	3	1	100%	67%	None
B-N-2	22	0	0%	0%	None
B-N-3	1	0	0%	0%	None
B-O	16	0	0%	0%	None
B-P	48	8	100%	83%	Note 1
B-Q	-	-	-	-	Note 2
C-A	9	1	33%	78%	Note 10
C-B	14	1	20%	71%	Note 9 Note 10
C-C	29	0	0%	55%	Note 10
C-D	0	0	-	-	Note 4
C-F-1	112	2	6%	61%	Note 10
C-F-2	30	3	27%	73%	Note 10
C-G	3	0	0%	67%	None
C-H	237	22	27%	76%	Note 6
D-A	25	0	0%	56%	None
D-B	174	33	56%	86%	Note 7
F-A	270	29	32%	69%	Note 10
RG1.14	8	0	0%	0%	None
E-A	597	199	100%	100%	Note 3
E-C	0	0	-	-	Note 4
E-D	15	5	100%	100%	Note 5
E-G	27	9	100%	100%	None

**TABLE 1**  
**ABSTRACT OF EXAMINATIONS AND TEST - NOTES**

**Note 1:**

All Refuel 13 required Pressure Tests for Category B-P (required to be performed every Refuel Outage) were completed.

**Note 2:**

Inspections are performed in accordance with Technical Specification 3/4.4.4 "RCS S/Gs" and NEI 97-06 "S/G Program Guidelines". Waterford 3 performs 100% Eddy Current inspection of the inservice Steam Generator tubes every Refuel Outage.

**Note 3:**

Per 10CFR 50.55a(b)(2)(ix)(E), a general visual examination is required for each period. This examination covers all accessible pressure retaining surfaces. A general visual examination was completed for all accessible surfaces in this period.

**Note 4:**

There are currently no exam category C-D or E-C at Waterford 3.

**Note 5:**

100% of the moisture barriers are examined due to detected flaws. 33% of the moisture barriers are credited for the period requirements. 100% of the period requirements were completed in RF13.

**Note 6:**

Currently there are 79 C-H examinations selected for each period from a total population of 79.

**Note 7:**

Currently there are 58 D-B examinations selected for each period from a total population of 58.

**Note 8:**

There are no exam category B-L-1 or exam category B-L-2 examinations selected for the interval.

**Note 9:**

Ten Items are being examined each interval with 2 of the 10 items examined each period.

**Note 10:**

Changes in the first and second period examination numbers from previous OAR reports are the result of; 1) modifications to the plant, 2) exams performed in RF13 that were credited in the second period, or 3) removal of preservice examinations that had been previously credited.

**Table 2  
Items With Flaws or Relevant Conditions That  
Required Evaluation for Continued Service**

Examination Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
B-Q	B16.20	<p>(SG MSG0002) separated Steam Generator batwing support number 9 between Columns 82 and 83, and between Columns 83 and 84. This was identified as a new degradation mechanism and was reported under OE 20932.</p>	<p>characterization addressed in W3 Engineering Reply document ER-W3-2005-0226-000 and Condition Report CR-WF3-2005-1977.</p>	YES



**Table 3  
Abstract of Repairs, Replacements, or Corrective Measures  
Required for Continued Service**

Code Class	Repair, Replacement, Or Corrective Measure	Item Description	Description Of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No)	Date Complete	Repair/ Replacement Plan Number
1	Repair	Line 2CH1-28	Remove and replace one inch pipe at through wall leak	No	05/27/2005	WO 62657
1	Corrective Measure	SGMSG0001	Preventive actions to preclude tube degradation including stabilization and mechanical plugging of selected tubes. 247 tubes were plugged in RF13	Yes	05/18/2005	WO 51974
1	Corrective Measure	SGMSG0002	Preventive actions to preclude tube degradation including stabilization and mechanical plugging of selected tubes. 223 tubes were plugged in RF13.	Yes	05/18/2005	WO 51973
1	Repair	RC MPZR0001-VESSEL (RC EHTR74B-3) and (RC ETHR74B-4)	Restoration of pressurizer pressure boundary following preventive heater replacement and subsequent repair of the pressurizer heater sleeve at penetration locations J-2 and F-3.	No	06/07/2005	WO 66780

**Table 3  
Abstract of Repairs, Replacements, or Corrective Measures  
Required for Continued Service - Continued**

Code Class	Repair, Replacement or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test? (Yes/No)	Date Completed	Repair/Replacement Plan Number
MC	Repair	<p>Containment Moisture Barrier – Sections MB</p> <p>Moisture barrier damaged by combination of aging and mechanical action resulting in small tears. Moisture barrier sections MB 5, MB 6 and MB 11 had one small area of damage each. Moisture barrier sections MB 7 had three small areas of damage each as reported on NDEN 2005-074.</p>	<p>Removed damaged portions of moisture barrier and replaced with new sealant.</p>	<p>Yes</p> <p>Found under additional examinations required by previous engineering evaluation. 100% of the moisture barrier is examined each refueling outage per CR-W3-2000-1275</p>	04/24/2005	<p>WO#37417</p> <p>(CR-W3-2005-01472)</p> <p>Exempt from repair/replacement rules of IWA 4000 by IWA 4111</p>