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Alan J. Harris
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Waterford 3

W3F1-2001-0109
A4.05
PR

November 14, 2001

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
Submittal of Owners Activity Report Forms for Inservice Inspection Performed During Refueling Outages 9 and 10

Gentlemen:

In accordance with ASME Code Case N-532, which was approved for use at Waterford 3 by the NRC in a letter dated March 21, 2001, the Owners Activity Report Forms, OAR-1, for refueling outages 9 and 10 are enclosed in Attachments 1 and 2, respectively. The OAR-1 forms are prepared and certified upon completion of each refueling outage. These OAR-1 forms provide a summary of the examinations performed during refueling outages in the first period of the second 10 year Inservice Inspection (ISI) interval. A copy of this letter and the attached reports will also be submitted to the office of the State Fire Marshall.

A047

Should you any questions regarding this submittal, please contact Ron Williams at (504) 739-6255 or Bashar Abed at (504) 739-6591.

Very truly yours,

A.J. Harris
Director
Nuclear Safety Assurance

AJH/RLW/cbh
Attachments

cc: E.W. Merschoff, NRC Region IV
N. Kalyanam, NRC-NRR
J. Smith
N.S. Reynolds
NRC Resident Inspectors Office
Louisiana State Fire Marshall

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M.A. Krupa	(M-ECH-414)
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R.D. Peters	(W-GSB-102)
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J.J. Lewis	(W-GSB-365)
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D.E. Marpe	(W-MSB4-220)
R.L. Osborne	(W-GSB-201)
P.A. Gropp	(W-GSB-220)
J.B. Holman	(W-GSB-320)
J.S. Reese	(W-GSB-600)
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D.B. Miller	(W-GSB-318)
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B.A. Anderson-Loper	(M-ECH-414)

ATTACHMENT 1

FORM OAR-1 OWNER'S ACTIVITY REPORT

FOR REFUELING OUTAGE 9

(5 pages attached)

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: 99-1

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 70066
(Name and Address of Plant)

Unit No. 3 (if applicable) **Commercial service date** 09/24/85 **Refueling outage no.** 9

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

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

Edition and Addenda of Section XI applicable to the inspection plan 1992 Ed. With portions of 93 addenda

CERTIFICATE OF CONFORMANCE

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

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

Signed [signature], Senior Engineer **Date** 9/11/00
Owner or Owner's Designee, Title (Walter L. Lowe)

CERTIFICATE OF INSERVICE INSPECTION

I, the 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 Factory Mutual Insurance Co. of Johnston, RI have inspected the item described in this Owner's Activity Report, during the period 7/25/97 to 4/2/99 and state 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 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.

[signature] **Commissions** LA, 1406
Inspector's Signature (Rafino Cordero) National Board, State, Province, and Endorsements

Date 9/11/2000

This form (E00127) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Waterford 3 Steam Electric Station
Table 1

Exam Category	Required Exam Totals	Exams Credited Period	Exams Credited Interval	% Credited for Period	% Exams Credited for Interval	Remarks
B-A	26	0	0	0%	0%	None
B-B	8	2	2	25.0%	25.0%	None
B-D	34	10	10	29.4%	29.4%	None
B-F	5	1	1	20.0%	20.0%	None
B-G-1	264	36	36	13.6%	13.6%	None
B-G-2	12	2	2	16.6%	16.6%	None
B-J	182	0	0	0%	0%	None
B-K	6	1	1	16.6%	16.6%	None
B-L-1	0	0	0	0%	0%	None
B-L-2	0	0	0	0%	0%	None
B-M-1	1	0	0	0%	0%	None
B-M-2	1	1	1	100%	100%	None
B-N-1	1	1	1	100%	100%	None
B-N-2	22	0	0	0%	0%	None
B-N-3	1	0	0	0%	0%	None
B-O	16	0	0	0%	0%	None
B-P	-	-	-	-	-	Note 1

Exam Category	Required Exam Totals	Exams Credited Period	Exams Credited Interval	% Credited for Period	% Exams Credited for Interval	Remarks
B-Q	-	-	-	-	-	Note 2
C-A	9	3	3	33%	33%	None
C-B	10	1	1	10%	10%	None
C-C	33	1	1	3%	3%	None
C-D	0	0	0	0%	0%	None
C-F-1	111	9	9	8%	8%	None
C-F-2	28	6	6	21.4%	21.4%	None
C-G	3	1	1	33.3%	33.3%	None
C-H	-	-	-	-	-	Note 3
D-B	-	-	-	-	-	Note 3
F-A	265	28	28	10.5%	10.5%	None
RG1.14	8	0	0	0%	0%	None

Note 1:
All required Pressure Tests are complete for Refuel/Cycle #9.

Note 2:
Steam Generator inspections performed during Refuel #9 included 100% full length bobbin coil and 100% hot leg top of the tube sheet with "+Pt." Inspections are performed in accordance with Tech Specs. 3/4.4.4,"RCS S/Gs" and NEI 97-06 "S/G Program Guidelines".

Note 3:
Pressure Tests were partially completed during Refuel/Cycle #9 and the remainder of the required tests for the period will be completed during Refuel/Cycle #10.

Table 2 Items With Flaws or Relevant Conditions That Required Evaluation for Continued Service
There were no items with flaws or relevant conditions that required evaluation for continued service

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	Replacement	RC MPZR0001 VESSEL	Install replacement nozzles	No	5/11/99	WA 01177054 CI 319102

IWE Information Required to be Submitted With the ISI Summary Report

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
MC	Repair	Containment Moisture Barrier – Section MB 3 Approximately 2 foot of seal is missing and 6 inches is pulled loose in the area between columns 6&7.	*Replaced sealant where it was missing and removed damaged portions of moisture barrier and replaced with new sealant.	Yes	3/26/99	WA 01177329 Note: Exempt from IWA 4000 per IWA 4111.
MC	Repair	Containment Moisture Barrier – Section MB 4 1) 4 inches of sealant missing between columns 7&8 2) 12 inches of bare metal noted with light surface corrosion between columns 7&8. 3) 18 inches of sealant with improper adhesion between columns 8&9.	* Replaced sealant where it was missing and removed damaged portions of moisture barrier and replaced with new sealant. The light surface corrosion noted was determined not to exceed the acceptance standards of IWE 3510.1 (a). The corrosion was cleaned and the area was recoated.	Yes	3/26/99	WA 01177329 Note: Exempt from IWA 4000 per IWA 4111.
MC	Repair	Containment Moisture Barrier – Section MB 13 Separations were noted between the containment vessel and the barrier as follows: 1) three to eight inch long at 30, 60, 65, 72, 80 and 106 degree locations. 2) 2 ft long at 115 degree location. 3) 6 ft long at the 125 and 135 degree locations.	*Removed damaged portions of moisture barrier and replaced with new sealant.	Yes	3/26/99	WA 01177329 Note: Exempt from IWA 4000 per IWA 4111.

*The need for additional examinations due to problems with the moisture barrier was evaluated on ER-W3-99-0686-00-00. This evaluation determined that the remainder of the moisture barrier should be examined in RF10. Conditions causing the problems were determined to be gradual degradation (i.e. normal wear and tear). No evidence of moisture intrusion could be found in the areas around the flaws. Additionally, no cases of severe corrosion were noted. The additional examinations in RF10 and the newly implemented examinations under the IWE requirements will ensure detection of damaged area prior to adverse effects on the containment vessel.

ATTACHMENT 2

FORM OAR-1 OWNER'S ACTIVITY REPORT

FOR REFUELING OUTAGE 10

(7 pages attached)

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: **00-1**

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 70066**
(Name and Address of Plant)

Unit No.: **3** Commercial service date: **09/24/85** Refueling outage: **10**

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

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

Edition & Addenda of Section XI applicable to inspection plan: **1992 Edition with portions of 1993 Addenda**

Date and revision of inspection plan: **5/21/00, Revision 09.**

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** (if applicable) Expiration Date: **N/A**

Signed: **Bashar Abed** Bashar Abed **, Engineer** Date: **10/26/01**
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 **Factory Mutual Insurance Co.** of **Johnston, RI** have inspected the items described in this Owner's Activity Report, during the period of **April, 1999 to November, 2000** 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**
Inspector's Signature National Board, State, Province, and Endorsements

Date: 11/05/2001

Waterford 3 Steam Electric Station Table 1						
Exam Category	Required Exam Totals	Exams Credited Period 1	Exams Credited 2nd Interval	% Credited for Period 1	% Exams Credited for 2nd Interval	Remarks
B-A	26	3	3	11.54%	11.54%	None
B-B	8	2	2	25.00%	25.00%	None
B-D	34	10	10	29.41%	29.41%	None
B-F	5	1	1	20.00%	20.00%	None
B-G-1	264	81	81	30.68%	30.68%	None
B-G-2	12	4	4	33.33%	33.33%	None
B-J	182	61	61	33.52%	33.52%	None
B-K	4	1	1	25.00%	25.00%	None
B-L-1	0	0	0	0.00%	0.00%	
B-L-2	0	0	0	0.00%	0.00%	
B-M-1	1	0	0	0.00%	0.00%	
B-M-2	1	1	1	100.00%	100.00%	None
B-N-1	1	1	1	100.00%	100.00%	None
B-N-2	22	0	0	0.00%	0.00%	None
B-N-3	1	0	0	0.00%	0.00%	None
B-O	16	0	0	0.00%	0.00%	None
B-P	-	-	-	-	-	Note 1
B-Q	-	-	-	-	-	Note 2
C-A	9	3	3	33.33%	33.33%	None
C-B	10	3	3	30.00%	30.00%	None
C-C	27	8	8	29.62%	29.62%	None
C-D	0	0	0	0.00%	0.00%	
C-F-1	162	45	45	27.78%	27.78%	None
C-F-2	132	37	37	28.03%	28.03%	None
C-G	3	1	1	33.33%	33.33%	None
C-H	-	-	-	-	-	Note 1
D-A	26	5	5	19.23%	19.23%	None
D-B	-	-	-	-	-	Note 1
F-A	265	77	77	29.06%	29.06%	None
E-A	597	199	199	33.33%	33.33%	Note 3
E-C	0	0	0	0.00%	0.00%	
E-D	15	5	5	33.33%	33.33%	Note 4
E-G	27	9	9	33.33%	33.33%	None

Note 1:
All required Pressure Tests are complete for the period.
Note 2:
Steam Generator inspections performed during Refuel #10 included 100% full length bobbin coil and 100% hot leg top of the tube sheet with "+Pt." Inspections are performed in accordance with Tech Specs. 3/4.4.4 "RCS S/Gs" and NEI 97-06 "S/G Program Guidelines".
Note 3:
Per 10 CFR 50.55a (b)(2)(ix)(E), a general visual examination is required per period. This exam covers all accessible pressure retaining surfaces. A general visual examination was completed for all accessible surfaces in this period.
Note 4:
100% of Moisture Barriers examined due to detected flaws. 33.33% are credited for the 1st period requirements.

Table 2 Items With Flaws or Relevant Conditions That Required Evaluation for Continued Service
There were no items with flaws or relevant conditions that required evaluation for continued service

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	Replacement	RC MPZR0001-VESSEL (RC EHTR75B 2-HEATER)	Performed weld pad build-up to install plug into heater sleeve.	No	11/04/00	MAI 421809
1	Replacement	RC MPZR0001-VESSEL (2RC0 3/4-32-A/B-LINE) (RC MVAAA313-VALVE)	Performed base material weld pad build-up of nozzle on Pressurizer.	No	11/07/00	MAI 414736
1	Replacement	RC MPZR0001-VESSEL (2RC0 3/4-32-A/B-LINE) (RC MVAAA314-VALVE)	Performed base material weld pad build-up of nozzle on Pressurizer.	No	11/07/00	MAI 414737
1	Replacement	SG MSG0001-HTEXCH	Performed Steam Generator Tube plugging.	Yes	11/06/00	MAI 409135
1	Replacement	SG MSG0002-HTEXCH	Performed Steam Generator Tube plugging.	Yes	11/06/00	MAI 409136

IWE information required to be submitted with the ISI Summary Report:

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	Moisture Barrier MB-02 Mechanical Damage in two locations.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-04 Mechanical Damage in two locations.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-05 Mechanical Damage in one location.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-06 Mechanical Damage in two locations.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-07 Mechanical Damage in two locations.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-08 Mechanical Damage in 6 locations.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-09 Mechanical Damage in one location.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111

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	Moisture Barrier MB-10 Mechanical Damage in 3 locations.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-11 Mechanical Damage in 3 locations.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-13 Mechanical Damage in 2 locations that overlap with MB-14.	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-14 Mechanical Damage in 10 locations. (2 overlap with MB-13, 3 overlap with MB-15)	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111
MC	Repair	Moisture Barrier MB-15 Mechanical Damage in 14 locations. (3 overlap with MB-14)	Removed damaged portions of MB and replaced with new sealant.	Yes	11/6/00	MAI 421737 Exempt from repair/replacement rules of IWA 4000 by IWA 4111

Conditions in accessible areas which indicate the potential for degradation in inaccessible areas (Per 10 CFR 50.55a (b)(2)(ix)(A):

Type and Extent of Degradation	Conditions that led to degradation	Evaluation	Results of Evaluation	Necessary Corrective Action
Mechanical Damage to the inner and outer moisture barriers with some corrosion noted in 2 locations.	Wear and Tear due to traffic and work around the moisture barrier.	CR-W3-2000-1275 CA 4, Attachment 3.	During examination of the moisture barrier two areas were identified which could indicate the presence of degradation in inaccessible areas. 1) Investigation of the first area, area #13 on NDEN 200-151, revealed only limited areas of surface corrosion with no significant wall loss or pitting. All surface areas of the containment vessel at this location were determined to be acceptable by examination in accordance with IWE-3122.1. 2) Investigation of the second area, area #15 on NDEN-155, revealed more serious corrosion in the region below the moisture barrier in the annulus. CR-W3-200-1375 was prepared to document corrective actions associated with this corrosion. All surface areas examined were determined to be acceptable by examination in accordance with IWE 3122.1 following UT measurements and determination that the corrosion mechanism was not active.	1) The inner and outer moisture barriers were repaired on MAI # 421737. 2) QA NDE inspections of these areas are noted in inspection reports NDEN 2000-483 and NDEN 2000-484. 3) 100% of the moisture barrier shall be examined each refueling outage until sufficient data is obtained to allow re-evaluation by the RE to determine the optimum examination schedule. 4) Corrosion noted below the moisture barrier on the containment vessel within the annulus is considered in CR-W3-2000-1375. Area determined to be acceptable by examination in accordance with IWE 3122.1.