Entergy

Entergy Operations, Inc.
Waterloo Road
P.O. Box 756
Port Gibson, MS 39150
Tel 601 437 6299

Charles A. Bottemiller
Manager
Plant Licensing

GNRO-2004/00039

June 18, 2004

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Attention: Document Control Desk

Subject: Inservice Inspection Summary Report

Grand Gulf Nuclear Station, Unit 1
Docket No. 50-416
License No. NPF-29

Dear Sir or Madam:

Attached is the Owner's Activity Report, OAR-1-00006 as required by Section XI of the ASME Code (Code). The report was prepared and submitted in accordance with the requirements of ASME Code Case N-532-1 as authorized by the NRC. The report contains an overall summary of Inservice Inspections performed to date, during the Second Period of the Second Interval. The Second Period of the Second Interval started June 2001 and will end June 2004. The report has been certified in accordance with Code requirements.

There are no new commitments contained in this submittal. If you have any questions concerning this request, please contact William B. Abraham at (601) 437-2319.

Sincerely,

CAB/WBA:wba

Attachment: Summary Report OAR-1-00006

cc: see next page

cc: NRC Senior Resident Inspector (w/a)
Grand Gulf Nuclear Station
Port Gibson, MS 39150

U. S. Nuclear Regulatory Commission
ATTN: Mr. Nageswaran Kalyanam, NRR/DLPM (w/2)
ATTN: ADDRESSEE ONLY
ATTN: U. S. Postal Delivery Address Only
Mail Stop OWFN/7D-1
Washington, DC 20555-0001

US. Nuclear Regulatory Commission
ATTN: Dr. Bruce S. Mallett (w/2)
Regional Administrator, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

Mr. D. E. Levanway (Wise Carter) (w/o)
Mr. L. J. Smith (Wise Carter) (w/o)
Mr. N. S. Reynolds (w/o)
Mr. H. L. Thomas (w/o)

Report Number OAR-1-0006

Inservice Inspection Summary Report

For

Grand Gulf Nuclear Station

Bald Hill Road

Port Gibson, Ms. 39150

Commerical Operation Date: July 1, 1985

Owner/Operator

Entergy Operations, Inc.

Echelon One

P. O. Box 31995

Jackson, Ms 39286-1995

Prepared By	Approved By	Approved By
Resp. Eng.	ANII Inspector	Supervisor, Code Programs

Approved By	Document Completion
Supervisor, Quality Inspections/NDE	Date 6-8-04

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number : OAR-1-00006

Owner Entergy Operations, Inc. , Echelon One, P.O. Box 31995, Jackson Ms. 39286-1995
(Name and Address of Owner)

Plant Grand Gulf Nuclear Station, Bald Hill Road, P.O. Box 756, Port Gibson, Ms. 39150-0756
(Name and Address of Plant)

Unit No. 1 (if applicable) Commercial Service Date July 1, 1985 Refueling Outage No. 13

Current Inspection Interval 2nd
(1st, 2nd, 3rd, 4th, other)

Current Inspection Period 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 1992 Edition, with portions of 1993 Addenda

Date and revision of inspection plan May 22, 2000, Revision 13

Edition and Addenda of Section XI applicable to repairs and replacements different than the inspection plan N/A

OWNER'S CERTIFICATE OF CONFORMANCE

I certify that the statements made in this 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 Expiration Date N/A

Signed [signature], Repair and Replacement Coordinator Date 6-7-04
Owner or Owner's Designee, Title

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 Mississippi and employed by ABS Group Inc. of Houston, TX, have inspected the items described in this Owner's Activity Report during the period October 6, 2002, to March 24, 2004, 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 in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Donald R. Burns Commissions NB 55560 (N-I)
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-21-04

Table 1 Limited Examinations				
Item #	**Item ID**	**Description**	**Coverage (%)**	**Reason for Limitation**
B09.021	1B21G114-1G-08-5	B-J Circumferential Weld at Tee	75%	Inaccessible
B10.010	1B21G11-D1-P	B-K-1 Attachment Weld	32%	Inaccessible
N/A	1E51G004-16-8-3	X-AUG Circumferential Weld	51%	Inaccessible
N/A	1G33002W177	X-AUG Circumferential Weld	75%	Inaccessible
N/A	1G33002W178	X-AUG Circumferential Weld	75%	Inaccessible
F01.040	1E12C002B-S2	F-A Equipment Support	50%	Inaccessible

Note: Approval for partial coverage inspections have been documented through the PCN process and will be achieved through the relief request process.

TABLE 1

ABSTRACT OF EXAMINATIONS AND TESTS

Examination 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	28	8	100	28	None
B-D	70	23	100	60	None
B-F	28	10	100	64	None
B-G-1	45	4	100	66	Note 1
B-G-2	50	6	100	12	Note 2
B-J	265	93	100	35	None
B-H	1	0	0	0	None
B-K-1	9	5	100	55	None
B-L-2	2	0	0	0	Note 3
B-M-2	71	0	0	0	Note 3
B-N-1	7	1	100	14	None
B-N-2	87	0	0	0	None
B-O	4	0	0	0	Note 4
C-A	2	0	0	0	None
C-B	4	0	0	0	None
C-C	3	2	100	66	None
C-D	1	0	0	0	None
C-F-2	72	24	100	33	None
C-G	46	11	100	23	Note 5
D-A	19	5	100	26	None
F-A	147	56	100	38	None
X-AUG	277	98	99	35	Note 3

TABLE 1

ABSTRACT OF EXAMINATIONS AND TESTS

Examination 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-P Pressure Test	7	5	100	71	None
C-H Pressure Test	258	161	98	62	Note 6
DB Pressure Test	72	25	100	66	None

Notes:

Note 1 - Numbers represent all B-G-1 bolting, this includes bolting which requires inspection only when the connection is disassembled or bolting is removed.
Note 2 - Numbers represent all B-G-2 bolting, this includes bolting which requires inspection only when the connection is disassembled or bolting is removed.
Note 3 - Examination only required if pump and valve are disassembled for maintenance.
Note 4 - Examination may be performed at the end of the10 year interval.
Note 5 - 2 components are inaccessible for exams, relief pending.
Note 6 - Examination may be performed at the end of the period

Table 2

Items With Flaws Or Relevant Conditions That Required Evaluations 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-G-2	B-7-10	Control Rod Drive (CRD) Flange to Flange Bolting	Linear Indications detected by penetrant exam (PT) after unacceptable VT-1 See Note 1	Yes
F-A	F01.030	Hanger/Support	Degradation due to environment Note 2	No

Note 1:
CR-GGN-2004-01109 The following relevant conditions (degradation of protective coating due to corrosion at the head to shank area, crack-like indications in the head to shank area, deformed head at hex head which appeared to be caused by disassembly and pitting) were identified during performance of VT-1 examination of the CRD capscrews on WO-50322614, 50322072, 50325256, 27504, 27505, 27506, 50316632, 27500, 27501 and 27502.
Reference: VT-1 Reports, QIPN: 0217-000-2004, 0216-000-2004, 0218-000-2004, 0219-000-2004, 0220-000-2004, 0221-000-2004, 0223-000-2004, 0226-000-2004, 0227-000-2004, 0228-000-2004 for relevant conditions of each cap screw.
Reference: MNCR 92/00173 was written to document the unacceptable VT-1. Inspection of the CRD cap screws were subjected to a penetrant test (PT). The test indicated small linear indications. A detailed metallographic examination of five of the worst case CRD cap screws was performed. Engineering Report 98-003-01 found the degradation of the cap screws acceptable and, if left as is, was not expected to result in a failure of the cap screws in the future. As the CRD's are changed out cap screws are VT-1 inspected and the ones identified as unacceptable are Eddy Current (ET) examined to verify the degradation identified in MNCR 92-/00173 and evaluation in Eng. Report 98-003-01 has not continued to degrade past the established threshold limit of flaw depth of .107 inches. If a flaw depth of .107 inches is detected a Condition Report will be initiated to evaluate the condition and take appropriate action prior to returning to operation. New designed bolting is being installed as replacements at each CRD location when reassembled as a long term corrective action.

Note 2:
The following supports were inspected and found to be degraded due to the environment in which they are installed.

Pipe supports Q1P41G011C03, Q1P41G011C05 and Q1P41G011R01 were repaired per ER-GG-2003-0076-000-00 and evaluated per ER-GG-2003-0138-000-00 which provides instructions for the repair of the corroded pipe supports. Q1P41G011C01, Q1P41G011C02, Q1P41G011C04, Q1P41G011C06, QSP41G010C11, QSP41G010C12, Additional inspections have confirmed the suitability of the repair of the above mentioned hangers. Therefore the structural integrity of the repaired supports has been confirmed and no additional action is required for the previously identified discrepancies for these pipe supports. Additional visual field inspection of the repaired material is required to ensure no galvanic corrosion has occurred prior to implementing the permanent. Additional supports are referenced in this ER.

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 Or No)	Date Completed	Repair/ Replacement Plan Number
3	Repair	SP41B001A 10" HBC 83	Apply weld overlay	Yes	2/17/04*	WO 27850
MC	Repair	CTMT liner	Weld build-up	No	3/9/04*	WO 32773
3	Repair	1P41G013-C02 1P41G013-C04	Weld repair	No	3/24/04*	WO 31847
3	Repair	SP41G010-C10	Weld repair	No	3/26/04*	WO 301871
3	Repair	1P41G011-R07	Weld repair	No	3/08/04	WO 31870
3	Repair	24" HBC-79	Weld Repair	No	3/23/04	WO 27852

*This is the date the NIS-2A was completed.

Reference: Replacement NIS-2A for work orders performed during this inspection period.

WO 50324748, WO 50322614, WO 27499, WO 27504, WO 27505, WO 27506, WO 27501, WO27502, WO 27498, WO 27579, WO 50325256, WO 50322072, WO 50321983, WO 27500, WO 50316632, WO 40089, WO 40133, WO 301871, WO 50314553, WO 27787, WO 50322211, WO 50306758, WO 38780, WO 50307780, WO 35139, WO 35144, WO 31534, WO 28643, WO26276, MAI306907, MAI299111, MAI321060, MAI281027, MAI280186, MAI275656, MAI321008, MAI320623, MAI266841, MAI314065,MAI264460, MAI281711, MAI254771