Entergy

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Joseph Pechacek
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JAFP-11-0009
January 18, 2011

United States Nuclear Regulatory Commission
ATTN: Samuel L. Hansell Jr.
Chief, Operations Branch, Division of Reactor Safety
USNRC, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Subject: Inservice Inspection Summary Report 2010 Refuel Outage (Reload 19/Cycle 20)
James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
License No. DPR-59

Reference: 1. Entergy letter to USNRC (JAFP-07-0030), "Fourth Inservice Inspection Interval Inspection Program Plan", dated February 27, 2007

Dear Sir or Madam:

This letter submits the James A. FitzPatrick (JAF) Owner's Activity Report, JAF-RPT-10-00008, Rev. 0 (Enclosure 1) which contains a summary of the Inservice Inspection (ISI) examinations conducted during the plant's fall 2010 Refuel Outage (Reload19/Cycle 20). Table 1 of the enclosed report summarizes the items with flaws or relevant indications that required evaluation for continued service and Table 2 provides an abstract of repair/replacement activities required for continued service. This Report is being submitted in accordance with JAF's approved Fourth Inservice Inspection Interval Inspection Program Plan (Reference 1).

There are no commitments contained in this letter.

Very truly yours,

Joseph Pechacek
Licensing Manager

Enclosure: JAF Owner's Activity Report (OAR) Second Outage, First Period, Fourth Interval

JP/ed

cc: Mr. William Dean
Regional Administrator, Region 1
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1415

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JAFP-11-0009

ENCLOSURE

JAF Owner's Activity Report (OAR)
Second Outage, First Period, Fourth Interval
(7 Pages)

Engineering Report No. JAF-RPT-10-00008 Rev 0
Page 1 of 7

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ENTERGY NUCLEAR
Engineering Report Cover Sheet

Engineering Report Title:
JAF Owner's Activity Report (OAR) Second Outage, First Period, Fourth Interval

Engineering Report Type:

New ☒ Revision ☐ Cancelled ☐ Superseded ☐
Superseded by: N/A

Applicable Site(s)

IP1	☐	IP2	☐	IP3	☐	JAF	☒	PNPS	☐	VY	☐	WPO	☐
ANO1	☐	ANO2	☐	ECH	☐	GGNS	☐	RBS	☐	WF3	☐	PLP	☐

EC No. 0000026741

Report Origin: ☒ Entergy ☐ Vendor
Vendor Document No.: N/A

Quality-Related: ☒ Yes ☐ No

Prepared by: Scott Reed Date: 01/05/2011
Responsible Engineer (Print Name/Sign)

Design Verified: Design Verification is not required Date: N/A
Design Verifier (if required) (Print Name/Sign)

Reviewed by: Mike Rose Date: 01/05/2011
Reviewer (Print Name/Sign)

Reviewed by*: Charlie Rose Date: 01/05/2011
ANII (if required) (Print Name/Sign)

Approved by: Pat Scanlan Date: 1/5/2011
Supervisor / Manager (Print Name/Sign)

*: For ASME Section XI Code Program plans per ENN-DC-120, if require

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number JAF-RPT-10-00008

Plant James A. FitzPatrick Nuclear Power Plant, 268 Lake Road East, Lycoming New York 13093

Unit No. 1 (if applicable) Commercial Service Date July 28, 1974 Refueling Outage Number R19

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

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

Edition and Addenda of Section XI applicable to the Inspection Plans 2001 Edition, 2003 Addenda

Date / Revision of Inspection Plans March 1, 2007 / ISI Program Plan No. ENN-SEP-JAF-007 Revision 2

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans Same

Code Cases used: N-416-3, N-532-4

CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests, meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of R19 (refueling outage number) conform to the requirements of Section XI

Signed Scott Reed Date 01/05/2011

(Owner or Owner's designee. Title: Sr Lead Technical Spec (Nuc))

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 New York and employed by HSB CT of Hartford, CT have inspected the items described in this Owner's Activity Report, 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 repair/ replacement activities and evaluation 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

Charlie Rose Commissions NY5364

(Inspector's Signature) National Board, State, Province, and Endorsements

Date 01/05/2011

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
B-G-1 / B6.200	02-2-P-1A	CR-JAF-2010-06107 - VT-1 examination of pump bolting, nuts and washers identified a nick on the washer flange inner taper that extended into the first (leading) thread of the nut. The damaged nut and all 16 washers were replaced.
R-A / R1.16-5	24-10-130	CR-JAF-2010-05601 - Thickness measurements taken on the valve adjacent to RHR weld 24-10-130 indentified thicknesses below the min-wall thickness of 2.38". The lowest thickness measurement found was 2.18". Engineering evaluated the condition and accepted as is. Acceptability of the identified condition is demonstrated in EC 0000024812 which shows that the valve thickness meets ASME code requirements.
R-A / R1.16-5	24-10-130	CR-JAF-2010-05602 - In conjunction with CR-JAF-2010-05601, this CR is being written to document thickness readings below the calculated minimum wall taken on the weld centerline of RHR weld 24-10-130. Engineering evaluated the condition and accepted as is. The area of reduced wall thickness in weld 24-10-130 was evaluated in revision 1 of JAF-CALC-10-00028 issued under EC 0000024635, Rev. 1. The evaluation concluded that the weld is acceptable as is based on the use of ASME Section XI, Appendix C methods to show acceptable structural margin for loads (including circumferential pressure stress) including the effects on the locally thin region.
F-A / F1.10b	29-1D-AN-33A	CR-JAF-2010-05922 - Conflicting information stamped on component vs drawing. During the examination the inspection identified hot and cold setting of 6956 and 7567 pounds respectfully on the spring hangers. Drawing Number 6.21-H29-7B Rev. 4 shows the cold setting of 9478 pounds. Engineering evaluated the condition and accepted as is. No changes to existing spring hangers were required. EC 0000024992 and calculation for drawing changes was completed.

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

R-A / R1.13-1	ESW-022	CR-JAF-2010-02540 - Condition report generated for engineering evaluation of UT thickness examination results, remaining service life and identification of re-examination requirements. Engineering evaluated the condition and accepted as is. EC 0000023804 generated for calculation update and remaining service life. Work order 00247538 for replacement of piping generated.
E-A / E1.11	Torus Saddle Support / SC-SD-Azm @ 10°-54' SC-SD-Azm @ 100°-54' SC-SD-Azm @ 124°-6' SC-SD-Azm @ 145°-54' SC-SD-Azm @ 235°-54' SC-SD-Azm @ 259°-6' SC-SD-Azm @ 280°-54' SC-SD-Azm @ 304°-6' SC-SD-Azm @ 349°-6'	CR-JAF-2010-00895 - IWE General Visual examination of the primary containment (Torus) saddle support assembly identified hold down brackets with relevant conditions per the ASME Section XI program. Engineering evaluated the condition and accepted as is. EC 0000021438 evaluated the base tie-down bracket gaps that were identified in this condition report that did not meet the requirements provided on the plant drawings. The EC evaluation clarified and added gap tolerances on plant drawings 3.72-16 and 3.72-17. These drawing changes are attached to the EC as drawing markups.
E-A / E1.11, E1.30	Primary Containment Moisture Barrier Area	CR-JAF-2010-05936 - During scheduled IWE inspection of drywell 256' elevation, degraded conditions at the carbon steel drywell liner interface were recorded per the ASME Section XI program. Primary Containment Liner corrosion identified in CR-JAF-2008-03508 could not be adequately addressed under WO 00166758. The work order was written to determine the extent of corrosion and subsequent repairs of areas identified in the IWE examinations performed in R18 and discussed in CR-JAF-2008-03508. These conditions were evaluated and acceptable to Engineering for continued service. Work Order 00166758 was revised to perform additional concrete excavation and the surface area was cleaned and prepped for a VT-1 of the steel liner. Pit depth measurements and UT examination of the steel liner was performed. Examinations were accepted based on pitting not exceeding engineering acceptance criteria.

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

E-A / E1.11, E1.30	Torus Interior	CR-JAF-2010-06235 - ISI VT-1 examination of the Torus wetted surface areas identified delaminated coatings from the 2006 repaired areas at ring girders 15 and 16. As identified in the condition report, Underwater Construction Company (UCC) divers removed the delaminated / loose coatings during the examination. The coatings removed were essentially the entire coating applied during the 2006 repairs and consisted of an approximate 10" round area. Surface condition of the repaired areas was found in good condition and no FME concerns exists. Work order 00254828 generated to recoat the repair areas during future torus work.
N/A	Hydraulic Snubber / 10-15B-HS-119B	CR-JAF-2010-05115 - Examination of snubber 10-15B-HS-119B identified settings not in accordance with the design drawing. Engineering evaluation the condition and accepted as is, drawings revised.
N/A	Hydraulic Snubber / 12-1-HS-20	CR-JAF-2010-05592 - Examination of snubber 12-1-HS-20 identified a low fluid level. The removed snubber tested satisfactory, snubber replacement installed. No additional corrective actions are required.
N/A	Hydraulic Snubber / 12-1-HS-18 and 12-1-HS-19	CR-JAF-2010-05680 - Examination identified snubbers misalignment with their associated pipe clamps. Snubber clamp realignment was completed per WO 51693915.
N/A	Hydraulic Snubber / 29-R1F-HS-123A	CR-JAF-2010-05781 - Examination identified snubber missing spacers on the end attachments. Spacers installed per WO 51693915.
N/A	Hydraulic Snubber / 23-19A-HS-2	CR-JAF-2010-06318 - Examination of snubber 23-19A-HS-2 identified a low fluid level. The removed snubber tested satisfactory, snubber replacement installed per WO 00252032.
N/A	10S-5B1	CR-JAF-2010-03442 – ESW Strainer Leak Pinhole leak was evaluated and acceptable to Engineering for continued service. Strainer repair performed per Work Order 00241657.

TABLE 2
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description Of Work	Date Completed	Repair/Replacement Plan Number
3	66UC-22G(PM)	Unit Cooler maintenance / repair	02/18/2009	07-022
2	10E-2A	Heat Exchanger repair	06/26/2009	08-002
3	46SWS-63A	Valve Replacement	03/11/2009	08-036
3	46ESW-8B	Valve Replacement	09/28/2010	08-059
2	23HPI-61	Valve Bolting Replacement	01/22/2009	09-003
3	70RWC-2A	Chiller Replacement	09/24/2009	09-006
3	70RWC-2B	Chiller Replacement	09/24/2009	09-007
3	70PCV-100B1 and 100B2	Valve Replacement	06/01/2009	09-008
3	70PCV-100A1 and 100A2	Valve Replacement	04/22/2009	09-009
3	10P-1D RHR	Pump Replacement	03/18/2010	09-012
3	PFSK-2188	Repair of Pipe Support	12/09/2009	09-014
3	67UC-16A	Piping Replacement	12/10/2009	09-015
3	66UC-22E	Unit Cooler maintenance / repair	06/04/2010	09-017
3	66UC-22F	Unit Cooler maintenance / repair	05/21/2010	09-018
1	02-2-1A-HS-15	Snubber Replacement	10/01/2010	09-019
1	02-2-1A-HS-16	Snubber Replacement	10/01/2010	09-020
1	02-2-1A-HS-17	Snubber Replacement	10/01/2010	09-021
1	12-1-HS-18	Snubber Replacement	09/25/2010	09-022
1	29-1A-HS-4	Snubber Replacement	09/25/2010	09-024
1	29-1B-HS-11	Snubber Replacement	09/24/2010	09-025
1	02-2-2A-HS-4	Snubber Replacement	09/26/2010	09-026
2	14SV-20A	Valve Replacement	04/26/2010	09-027
2	23-19-HS-13	Snubber Replacement	08/16/2010	10-002
2	10-10B-HS-19	Snubber Replacement	09/13/2010	10-003
3	70AHU-19B	Air handling unit maintenance / Piping replacement	2/2/2010	10-004
2	03TK-125 (HCU-14-23)	Accumulator replacement	9/26/2010	10-005
1	34-5D-HS-26	Snubber Replacement	9/24/2010	10-008
1	02RV-71A	Valve Replacement (Pilot)	10/08/2010	10-009
1	02RV-71B	Valve Replacement (Pilot)	10/11/2010	10-010

TABLE 2
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

1	02RV-71D	Valve Replacement (Pilot)	10/08/2010	10-011
1	02RV-71G	Valve Replacement (Pilot)	10/11/2010	10-012
1	02RV-71H	Valve Replacement (Pilot)	10/11/2010	10-013
1	02RV-71J	Valve Replacement (Pilot)	10/11/2010	10-014
1	02RV-71K	Valve Replacement (Pilot)	10/11/2010	10-015
1	02RV-71L	Valve Replacement (Pilot)	10/11/2010	10-016
1	02RV-71F	Valve Replacement (Main Body)	10/02/2010	10-017
1	02RV-71C	Valve Replacement (Main Body)	10/01/2010	10-018
1	02RV-71E	Valve Replacement (Main Body)	10/02/2010	10-019
1	39ACC-256E	Accumulator replacement	10/02/2010	10-020
1	39ACC-256C	Accumulator replacement	10/02/2010	10-021
1	03CRDU-(06-15,10-47,14-47,22-31,30-15,30-39,42-15 and 50-23)	CRDM Replacement	09/29/2010	10-022
2	10-13A-HS-109A	Snubber Replacement	08/24/2010	10-024
2	10-9A-HS-39	Snubber Replacement	08/262010	10-025
2	10-9A-MS-254	Snubber Replacement	09/09/2010	10-026
2	10-15B-HS-122	Snubber Replacement	09/24/2010	10-027
2	10-15B-MS-124B	Snubber Replacement	09/12/2010	10-028
2	10-3B-HS-153	Snubber Replacement	09/11/2010	10-029
2	10-8B-HS-10	Snubber Replacement	09/13/2010	10-030
2	10-9B-HS-7	Snubber Replacement	09/14/2010	10-031
2	14SV-20B	Valve Replacement	08/06/2010	10-032
3	10S-5B1	Strainer pressure boundary repair	07/14/2010	10-033
1	02-2P-1A	Pump rotating element and cover replacement	10/07/2010	10-036
1	02-2P-1B	Pump Mechanical Seal replacement	10/04/2010	10-041
1	12-1-HS-20	Snubber Replacement	10/01/2010	10-042
1	29AOV-80C	Valve Repair	09/29/2010	10-043
1	02-2-2B-HS-8	Snubber Replacement	09/28/2010	10-045
2	14-9A-HS-15	Snubber Replacement	09/25/2010	10-046
2	23-19A-HS-2	Snubber Replacement	10/10/2010	10-047
3	46EXJ-9A	Expansion Joint Replacement	9/25/2010	10-048
3	46EXJ-9C	Expansion Joint Replacement	9/25/2010	10-049
1	02V-1	Vent Piping Bolting Replacement	10/06/2010	10-050