



Entergy

Entergy Operations, Inc.
1448 S.R. 333
Russellville, AR 72802
Tel 501 858 5000

1CAN080403

August 11, 2004

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

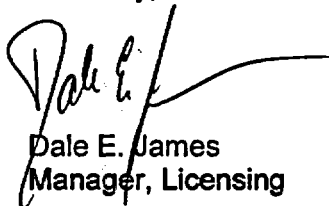
Subject: Inservice Inspection (ISI) Summary Report
Arkansas Nuclear One – Unit 1
Docket No. 50-313
License No. DPR-51

Dear Sir or Madam:

Pursuant to the requirements of 10CFR50.55a, the attached Inservice Inspection (ISI) Summary Report for ASME Class 1 and 2 pressure retaining components and their supports for Arkansas Nuclear One, Unit 1 (ANO-1) is provided for your review. The results presented by this letter are representative of the second inspection period of the third ten-year inspection interval. This submittal is provided in accordance with ASME Section XI IWA-6230 and Code Case N-532-1. The attachment provides ASME form OAR-1 "Owner's Activity Report" plus tables that present: (1) an abstract of examinations and tests, (2) conditions requiring evaluation and (3) actions necessary for continued service.

This correspondence contains no commitments. Should you have any questions or comments, please contact Mr. Fred Van Buskirk at (479) 858-3155.

Sincerely,



Dale E. James
Manager, Licensing

DEJ/fpv

Attachment

AD-17

cc: Dr. Bruce S. Mallett
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

NRC Senior Resident Inspector
Arkansas Nuclear One
P.O. Box 310
London, AR 72847

U. S. Nuclear Regulatory Commission
Attn: Mr. Tom Alexion
Mail Stop 0-7 D1
Washington, DC 20555-0001

Attachment 1

1CAN080403

Owner's Activity Report OAR-1323

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1323

Owner Entergy Arkansas, Inc./ P.O. Box 551, TCBY Tower, Little Rock, AR, 72203
(Name and Address of Owner)

Plant Arkansas Nuclear One / 1448 S.R. 333, Russellville, AR, 72802
(Name and Address of Plant)

Unit No. 1 Commercial service date December 19, 1974 Refueling outage no. 1R18
(if applicable)

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

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

Edition and Addenda of Section XI applicable to the inspection plan 1992 Edition, Portions of 1993 Addenda for Pressure Testing

Date and revision of inspection plan September 30, 2002 / Revision 7: through PCN-09

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan Same

CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, test, 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
(if applicable)

Signed Lehi M. Byrd Manager, Programs & Components Date 3/7/04
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 Arkansas and employed by ABS Group Inc. of Houston, Texas have inspected the items described in this Owner's Activity Report, during the period November 13, 2002 to May 13, 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 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.

Carl W. Thompson Commissions NB-9985, ARK-1054 "A" "B" "N" "T" "NS"
Inspector's Signature National Board, State, Province, and Endorsements

Date 07-08-04

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

TABLE 1
ABSTRACT OF EXAMINATIONS AND TEST

| 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 | 13 | 0 | 0.00 | 0.00 | |
| B-B | 6 | 1 | 100.00 | 50.00 | |
| B-D ⁽¹⁾ | 38 | 6 | 100.00 | 37.00 | |
| B-F | 7 | 2 | 100.00 | 57.14 | |
| B-G-1 ⁽²⁾ | 32 | 6 | 100.00 | 31.25 | |
| B-G-2 | 25 | 8 | 100.00 | 60.00 | |
| B-J | 40 | 10 | 100.00 | 57.50 | RISK Informed ISI is applied. |
| B-P | 7 | 3 | 100.00 | 71.43 | |
| C-A | 8 | 2 | 100.00 | 50.00 | |
| C-B | 7 | 2 | 100.00 | 57.14 | |
| C-C | 16 | 5 | 100.00 | 56.25 | |
| C-F-1 | 91 | 38 | 100.00 | 61.54 | |
| C-F-2 | 28 | 11 | 100.00 | 57.14 | |
| C-H ⁽³⁾ | 165 | 36 | 65.45 | 55.15 | |
| D-A | 11 | 3 | 100.00 | 54.55 | |
| D-B ⁽³⁾ | 51 | 1 | 0.06 | 35.29 | |
| F-A | 120 | 34 | 100.00 | 61.67 | |
| E-D | 3 | 1 | 100.00 | 66.67 | |
| E-G | 11 | 4 | 100.00 | 63.64 | |
| E-A | 3 | 1 | 100.00 | 67.00 | |
| L-A | 57 | 57 | 100.00 | 100.00 | |
| L-B | 10 | 10 | 100.00 | 100.00 | |

(1) Deferral allowed by 92 Edition of ASME Section XI or Code Case N-521.

(2) Examinations are within the percentages when calculated per bolt.

(3) Unit 1 second period was extended by 1 year as allowed by ASME Section XI.

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) |
|-----------------------------|--------------------|--|---|---|
| C-F-1 | C5.21 | ISI # 36-052 Pipe to Elbow Circ. Weld | Sub-Surface Planar Flaw | Yes |
| C-F-1 | C5.21 | ISI # 36-053 Pipe to Elbow Circ. Weld | Sub-Surface Planar Flaw | Yes |
| L-B | L2.40 | Tendon 2D218 | The absolute difference between the amount of tendon sheathing filler removed and that replaced exceeded 10% of the total duct volume | Yes |
| L-A | L1.11 | Tendon Gallery | Tendon V-40, lower anchorage, gasket leak - Approximately 1 pint from previous observation | Yes |
| L-A | L1.11 | Zones 1-3, 1-4, 1-5, 3-10, 3-11, 3-13, 3-16, 3-17 and 3-18 | Previously identified tendon grease stains noted - no change from previous IWL inspection | Yes |
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UNIT 1 INTERVAL 3 PERIOD 2
(For Cycle 18)

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 COMPLETED | REPAIR/REPLACEMENT PLAN NUMBER AND MAI/VO NUMBER |
|------------|---|------------------|--|---|----------------|--|
| 1 | Replacement | Pump | Replaced seal fasteners on P-32A | No | 5/3/04 | Plan # 01-2047, WO # 50243496 |
| 2 | Replacement | Pump | Replaced P-35B suction flange fasteners | No | 3/12/03 | Plan # 01-2048, MAI # 35673 |
| T3 | Replacement | Cooling Coil | Replaced VUC-1A Cooling Coil | No | 4/13/03 | Plan # 01-2139, MAI # 48878 |
| T3 | Replacement | Cooling Coil | Replaced VUC-1C Cooling Coil | No | 4/14/03 | Plan # 01-2140, MAI # 48881 |
| T3 | Replacement | Pump | Replaced P-4B wet end | No | 9/25/03 | Plan # 02-2019, MAI # 51867 |
| 2 | Replacement | Valve | Replaced valve bonnet on spare stock valve for MS-12 | No | 11/21/02 | Plan # 02-2203, MAI # 75955 |
| T3 | Replacement | Cooling Coil | Replaced VUC-1B Cooling Coil. Invoked N-416-1 | No | 3/12/03 | Plan # 02-2205, MAI # 70177 |
| 3 | Replacement | Heat Exchanger | Re-Rated E-35B tube side for a new service condition | No | 04/30/03 | Plan # 03-2051, WO # 50272579 |
| 3 | Replacement | Heat Exchanger | Re-Rated E-35A tube side for a new service condition | No | 04/30/03 | Plan # 03-2052, WO # 50275382 |
| 1 | Replacement | Pump | Replaced P-32B seal | No | 5/11/04 | Plan # 03-2061, WO # 50273617 |
| 2 | Replacement | Valve | Replaced B/B fasteners on CV-2234 | No | 4/30/04 | Plan # 03-2123, WO # 28227 |
| T3 | Replacement | Valve | Replaced SW-22B | No | 5/03/04 | Plan # 03-2107, WO # 50245098 |
| T3 | Replacement | Cooling Coil | Replaced emergency drain on VSF-1C | No | 5/5/04 | Plan # 04-2007, WO # 50267346 |
| T3 | Replacement | Cooling Coil | Replaced emergency drain on VSF-1D | No | 5/5/04 | Plan # 04-2008, WO # 50267346 |
| T3 | Replacement | Support | Installed new support HCD-163-H1 | No | 5/5/04 | Plan # 04-2009, WO # 50267346 |
| T3 | Replacement | Support | Installed new support HCD-165-H1 | No | 5/5/04 | Plan # 04-2010, WO # 50267346 |

UNIT 1 INTERVAL 3 PERIOD 2
(For Cycle 18)

| 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 AND MAI/WO NUMBER |
|------------|---|------------------|--|---|----------------|--|
| 3 | Repair | Pipe | Welded repair on HCC-5-3" pipe Invoked N-416-2 | No | 5/11/04 | Plan # 04-2018, WO # 36601 |
| 2/3 | Replacement | Pipe | Replaced P-32A & E-25A seal water piping flange fasteners | No | 5/3/04 | Plan # 04-2021, WO # 50277843 |
| 2/3 | Replacement | Pipe | Replaced P-32B & E-25A seal water piping flange fasteners | No | 5/11/04 | Plan # 04-2022, WO # 50277844 |
| 1 | Replacement | Heat Exchanger | Replaced handhole fasteners on E-24A | No | 5/6/04 | Plan # 04-2024, WO # 29993 |
| 1 | Replacement | Seal | Replaced P-32A seal | No | 5/13/04 | Plan # 04-2027, WO # 50248158 |
| 1 | Replacement | Valve | Replaced PSV-1001 | No | 5/11/04 | Plan # 04-2028, WO # 50572549 |
| T3 | Replacement | Orifice | Replaced FO-2858A Invoked N-416-2 | No | 5/11/04 | Plan # 04-2034, WO # 27178 |
| T3 | Replacement | Orifice | Replaced FO-2858B Invoked N-416-2 | No | 5/11/04 | Plan # 04-2035, WO # 27179 |
| T3 | Replacement | Support | Installed new support 3-EFW-109-H7 | No | 5/5/04 | Plan # 04-2036, WO # 27178 |
| T3 | Replacement | Support | Installed new support 3-EFW-111-H9 | No | 5/5/04 | Plan # 04-2037, WO # 27179 |
| T3 | Replacement | Pipe | Reroute DBD-1-2" piping Invoked N-416-2 | No | 5/11/04 | Plan # 04-2038, WO # 27178 |
| T3 | Replacement | Pipe | Reroute DBD-2-2" piping Invoked N-416-2 | No | 5/11/04 | Plan # 04-2039, WO # 27179 |
| 2 | Replacement | Valve | Replaced PSV-2684, PSV-2687 & PSV-2690 | No | 5/13/04 | Plan # 04-2040, WO # 50285495 |
| 2 | Replacement | Valve | Replaced PSV-2699 | No | 5/13/04 | Plan # 04-2043, WO # 50285590 |
| 1 | Replacement | CRDM | Replaced CRDM fasteners | No | 5/5/04 | Plan # 04-2044, WO # 24736 |
| 3 | Replacement | Valve | Replaced bonnet for RT-4A | No | 5/11/04 | Plan # 04-2045, WO # 43040 |

UNIT 1 INTERVAL 3 PERIOD 2
(For Cycle 18)

| 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 AND MAI/VO NUMBER |
|------------|---|------------------|--|---|----------------|--|
| 1 | Repair | Heat Exchanger | Tube Plugging on E-24A | No | 5/11/04 | Plan # 04-2047, WO # 50335852 |
| 1 | Repair | Heat Exchanger | Tube Plugging on E-24B | No | 5/11/04 | Plan # 04-2048, WO # 50335848 |
| T3 | Replacement | Valve | Replaced MS-272 | No | 5/11/04 | Plan # 04-2051, WO # 50277379 |
| T3 | Replacement | Valve | Replaced SW-2C | No | 5/8/04 | Plan # 04-2052, WO # 50285653 |
| T3 | Replacement | Valve | Replaced MS-271 disc | No | 5/11/04 | Plan # 04-2053, WO # 43379 |
| 1 | Repair | Vessel | Weld repair on R-1, Nozzle 61 Invoked N-416-2 | No | 5/11/04 | Plan # 04-2056, WO # 24736 |
| T3 | Replacement | Valve | Replaced MS-272 disc | No | 5/3/04 | Plan # 04-2057, WO # 50277379 |
| T3 | Replacement | Pipe | Replaced FO-3800B flow orifice | No | 5/10/04 | Plan # 04-2058, WO # 43709 |
| T3 | Replacement | Pipe | Replaced section of HBD-14-2" pipe | No | 5/12/04 | Plan # 04-2062, WO # 43870 |

NOTE: Table 3 is an abstract for all Repair/Replacement activities performed during Cycle 18 to comply with Site Procedures.