



Entergy Operations, Inc.
1448 S.R. 333
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Tel 479-858-4619

Dale E. James
Manager, Licensing

1CAN080701

August 13, 2007

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, 2 and 3 pressure retaining components and their supports for Arkansas Nuclear One, Unit 1 (ANO-1) is provided for your information. The results presented by this letter are representative of inspections performed up to and including refueling outage 1R20 during the third inspection period of the third ten-year inspection interval. This submittal is provided in accordance with ASME Section XI and Code Case N-532-1. Attachment 1 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.

Due to the scope and complexity of the major modifications performed in recent refueling outages, additional information remains to be incorporated into Table 1 (see Table 1, footnote 2). This summary report reflects modifications performed at ANO-1 that included replacement of both steam generators and replacement of the reactor vessel closure head, as well as other substantial design changes. As a result of the unusually large magnitude of administrative requirements associated with these modifications, and workload estimates for processing the final closure of related Entergy and vendor engineering packages, a follow-up revision to Table 1 will be necessary in order to submit the remaining information regarding the progress of examinations in certain categories for the current interval and period.

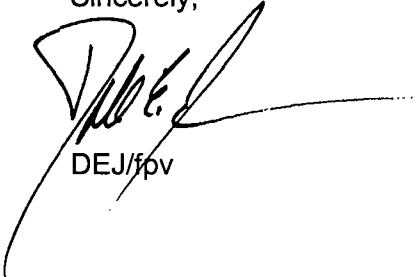
A new commitment contained in this submittal is summarized in Attachment 2.

AO47

NR

Should you have any questions or comments, please contact Mr. Fred Van Buskirk at (479) 858-3155.

Sincerely,



DEJ/fpv

Attachment:

1. Owner's Activity Report – OAR 1332
2. List of Regulatory Commitments

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
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U. S. Nuclear Regulatory Commission
Attn: Mr. Alan Wang
Mail Stop O-7D1
Washington, DC 20555-0001

Attachment 1

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Owner's Activity Report OAR-1332

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number OAR-1332

Owner Entergy Arkansas, Inc./ P.O. Box 551, 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. 1R20
(If applicable)

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

Current inspection period Third (3rd) 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 July 26, 2005/ Revision 304; through PCN-18

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 Richard C. Hoffman for J.M. Date 08/07/2007
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 HSBCT of Hartford, Connecticut have inspected the items described in this Owner's Activity Report, during the period December 24, 2005 to May 12, 2007, 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.

C.W. Thompson Commissions NB-9985, ARK-1054 "A" "B" "N" "I" "NS"
Inspector's Signature National Board, State, Province, and Endorsements

Date 08-07-07

Note 1: This OAR-1 Form is for the certification of a partially completed Table 1 and the completed Table's 2 and 3. Revision to Table 1 and subsequent submittal will require another form OAR-1 completion.

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

Entergy South/ANO-1

TABLE 1

ABSTRACT OF EXAMINATIONS AND TESTS

Interval: 3 Period: 3

Examination Category	Total Examinations Required for The Third Interval	Total Examinations Credited for The Third Period	Total Examinations Credited (%) for The Third Period	Total Examinations Credited (%) To Date for The Third Interval	Remarks
B-A	13	0	0%	0%	Relief Request ANO-1-ISI-005
B-B					Note 2
B-D					Note 2
B-F	7	0	0%	57.14%	Relief Request ANO-1-ISI-006
B-G-1					Note 2
B-G-2					Note 2
B-J					Note 2
B-K					Note 2
B-L-1	0	0	0%	0%	
B-L-2	0	0	0%	0%	
B-M-1	0	0	0%	0%	
B-M-2	1	0	0%	100%	
B-N-1	3	0	0%	66.67%	Relief Request ANO-1-ISI-007
B-N-2	2	0	0%	0%	
B-N-3	1	0	0%	0%	
B-O					Note 2
B-P	7	2	100%	100%	
B-Q	0	0	0%	0%	
C-A					Note 2
C-B					Note 2
C-C					Note 2
C-F-1	93	5	19.23%	65.00%	Relief Request ANO-1-ISI-008
C-F-2	28	4	36.36%	72.00%	Relief Request ANO-1-ISI-008
C-H	165	55	100%	100%	
D-A					Note 2
D-B	51	17	100%	100.00%	
F-A					Note 2
E-A	120	40	100%	100%	Note 1
E-C	9	3	100%	100%	
E-D	3	1	100%	100%	
E-G	11	4	100%	100%	
L-A	57	0	0%	100%	
L-B	10	0	0%	100%	
F-C 3.10-40 (Snubbers)	525	126	100%	100%	Per TRM Table 5.5.1-1
F-C 3.50 (Snubbers)	103	26	100%	100%	Per TRM 5.5.1.d

Note 1 - Column 1 & 2 numbers increased from last cycle's OAR due to this category splitting up into smaller more manageable inspection areas.

Note 2 - Due to the large scope of modification packages and their associated administrative requirements for validation and closure, a follow-up revision to Table 1 will be required.

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)
F-A	F1.30B	Support HBD-20-H51	Corrosion degradation on baseplate (CR-ANO-1-2007-0446)	Yes (ISI# 51-023)
F-A	F1.30B	Support HBD-2-H10	Loose connections (CR-ANO-1-2004-2327)	Yes (ISI# 51-062)
F-A	F1.30B	Support HBD-2-H11	Loose connections (CR-ANO-1-2004-2327)	Yes (ISI# 51-063)
F-A	F1.10A	Support MU-167	Excessive Wear (CR-AnO-1-2007-0695)	Yes (ISI# 23-095)
F-A	F1.30A	Support HBD-20-H51	Degradation on Baseplate (CR-ANO-1-2007-0446)	Yes (ISI# 51-023)

UNIT 1 INTERVAL 3 PERIOD 3
(For Cycle 20)

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 OR WO NUMBER
T3	Replacement	Pump	Replaced pump columns for P-4C	No	09/30/2006	Plan # 02-2020, WO 50247275
3	Repair	Pipe	Repaired HCC-16-4" pipe N-416-2	No	01/09/2007	Plan # 04-2004, WO 00025397
3	Replacement	Pipe	Replaced HCC-16-4" pipe N-416-2	No	01/09/2007	Plan # 04-2029, WO 00035785
T3	Replacement	Cooling Coil	Replaced cooling coil VUC-7A	No	11/13/2006	Plan # 05-2058, WO 00033101
2	Repair/ Replacement	Pump	Welded repair to build up wear area, replaced suction/discharge fasteners	No	12/06/2005	Plan # 05-2060, WO 00047637
2	Replacement	Valve	Replaced valve CA-62 disc	No	05/25/2006	Plan # 05-2073, WO 00044170
2	Replacement	Valve	Replaced valve BW-1 Body to Bonnet studs	No	05/11/2007	Plan # 05-2083, WO 00029205
2	Replacement	Valve	Replaced valve BW-1 Body to Bonnet nuts	No	05/11/2007	Plan # 05-2132, WO 00075600
2	Repair	Pump	Seal welded threaded plug on P-36A	No	01/16/2006	Plan # 06-2003, WO 00080080
T3	Replacement	Valve	Replaced valve CV-6036	No	12/21/2006	Plan # 06-2005, WO 00080047
T3	Replacement	Pump	Replaced pump columns for P-4B	No	04/24/2006	Plan # 06-2012, WO 00060981
T3	Replacement	Support	Replaced support HBD-2-H10 sway strut rod ends	Yes	04/12/2006	Plan # 06-2013, WO 00054615
T3	Replacement	Support	Replaced support HBD-2-H11 sway strut rod ends	Yes	04/23/2006	Plan # 06-2014, WO 00060981
T3	Replacement	Support	Replaced HCD-123-H3 support member	No	04/24/2006	Plan # 06-2016, WO 00060981
T3	Replacement	Support	Replaced HCD-123-H1 support member	No	04/18/2006	Plan # 06-2017, WO 00056924
T3	Replacement	Pipe	Shortened HBD-21-18 piping	No	04/26/2006	Plan # 06-2066, WO 00060981
T3	Replacement	Valve	Replaced valve CV-6034	No	12/08/2006	Plan # 06-2082, WO 00041081
2	Replacement	Support	Install clamp spacer in supports MS-143, MS-144, MS-147 & MS-148	No	05/08/2007	Plan # 07-2001, WO 00079275
1	Replacement	Valve	Replaced valve PSV-1001	No	05/11/2007	Plan # 07-2005, WO 51031225

UNIT 1 INTERVAL 3 PERIOD 3
(For Cycle 20)

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 OR WO NUMBER
1	Replacement	Valve	Replaced valve MU-45A	No	05/11/2007	Plan # 07-2008, WO 00084059
1	Replacement	Steam Generator	Replaced upper manway fasteners on E-24A	No	05/11/2007	Plan # 07-2009, WO 00101391
T3	Replacement	Pipe	Modified EBD-6-4" Pipe run. N-416-2	No	05/11/2007	Plan # 07-2018, WO 00090264
T3	Replacement	Pipe	Modified EBD-6-2" & 4" Pipe run. N-416-2	No	05/11/2007	Plan # 07-2019, WO 00090264
T3	Replacement	Support	Modify support 1-MS-118-H8	No	05/11/2007	Plan # 07-2020, WO 00090264
T3	Replacement	Support	Modify support 1-MS-118-H12	No	05/11/2007	Plan # 07-2021, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H27	No	05/11/2007	Plan # 07-2022, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H28	No	05/11/2007	Plan # 07-2023, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H29	No	05/11/2007	Plan # 07-2024, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H30	No	05/11/2007	Plan # 07-2025, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H31	No	05/11/2007	Plan # 07-2026, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H32	No	05/11/2007	Plan # 07-2027, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H33	No	05/11/2007	Plan # 07-2028, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H34	No	05/11/2007	Plan # 07-2029, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H35	No	05/11/2007	Plan # 07-2030, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H36	No	05/11/2007	Plan # 07-2031, WO 00090264
T3	Replacement	Support	Install new support 1-MS-118-H37	No	05/11/2007	Plan # 07-2032, WO 00090264
1	Repair	Nozzle	Structural weld overlay on Pressurizer ERV nozzle. Relief Request ANO1-R&R-010	No	05/11/2007	Plan # 07-2033, WO 00082249
1	Repair	Nozzle	Structural weld overlay on Pressurizer Safety valve PSV-1001 nozzle. Relief Request ANO1-R&R-010	No	05/11/2007	Plan # 07-2034, WO 00082248

UNIT 1 INTERVAL 3 PERIOD 3
(For Cycle 20)

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 MAJOR WO NUMBER
1	Repair	Nozzle	Structural weld overlay on Pressurizer Safety valve PSV-1002 nozzle. Relief Request ANO1-R&R-010	No	05/11/2007	Plan # 07-2035, WO 00082247
1	Repair	Nozzle	Structural weld overlay on Pressurizer Spray nozzle and safe end. Relief Request ANO1-R&R-010	No	05/11/2007	Plan # 07-2036, WO 00082246
1	Repair	Nozzle	Structural weld overlay on Pressurizer Surge nozzle. Relief Request ANO1-R&R-010	No	05/11/2007	Plan # 07-2037, WO 00082233
1	Repair	Nozzle	Structural weld overlay on Steam Generator "A" Hot Leg Surge nozzle. Relief Request ANO1-R&R-010	No	05/11/2007	Plan # 07-2038, WO 00082378
2	Replacement	Valve	Replaced valve MS-11 N-416-2	No	05/11/2007	Plan # 07-2041, WO 00093324
1	Replacement	Valve	Replace Inlet flange fasteners for PSV-1001	No	05/11/2007	Plan # 07-2043, WO 51031225
1	Replacement	Valve	Replace Inlet flange fasteners for PSV-1002	No	05/11/2007	Plan # 07-2044, WO 00082247
T3	Replacement	Support	Modify support 1-MS-188-H13	No	05/11/2007	Plan # 07-2045, WO 00090264
1	Replacement	Steam Generator	Replaced upper hand hole fasteners on E-24A	No	05/04/2007	Plan # 07-2052, WO 00101443
1	Replacement	Steam Generator	Replaced upper hand hole fasteners on E-24B	No	05/07/2007	Plan # 07-2053, WO 00101407
T3	Replacement	Valve	Replaced valve SW-604A N-416-2	No	05/01/2007	Plan # 07-2054, WO 00086544
2	Replacement	Pipe	Install spacer on discharge of PSV-1001	No	05/11/2007	Plan # 07-2055, WO 51031225
1	Replacement	CRDM	Replaced CRDM F4 Hold Down Fasteners	No	05/11/2007	Plan # 07-2057, WO 51031152

Note: Table 3 is an abstract of all Repair/Replacement activities performed during cycle 20 to comply with site procedural requirements.

Attachment 2

1CAN080701

List of Regulatory Commitments

List of Regulatory Commitments

The following table identifies those actions committed to by Entergy in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

COMMITMENT	TYPE (Check one)		SCHEDULED COMPLETION DATE (If Required)
	ONE-TIME ACTION	CONTINUING COMPLIANCE	
Entergy will submit a revision to Table 1 depicting the final abstract of examinations and tests associated with this summary report.	X		November 13, 2007