

Inservice Inspection Summary Report

Arkansas Nuclear One, Unit 2

Outage Number 2R8

Outage Completion Date: April 20, 1991

Owner

Arkansas Power & Light Company

Little Rock, Arkansas 72203

Owner/Operator

Entergy Operations Inc.

Subsidiary of Entergy Corporation

Generating Plant

Arkansas Nuclear One

Route 3, Box 137G

Russellville, Arkansas 72801

Commercial Operating Date: March 26, 1980

Submittal Date: July 15, 1991

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Arkansas Power & Light/Entergy Operations Inc./Capital & Broadway/Little Rock, AR 72203
 (Name and Address of Owner)
2. Plant Arkansas Nuclear One; Route 3, Box 137G; Russellville, Arkansas 72801
 (Name and Address of Plant)
3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 6. National Board Number for Unit 22009
7. Components Inspected **ASME Code Class 1 (IWB)/2 (IWC) Components & Supports (IWF)**
 (See Pages 3 of 11 through 11 of 11 for Identification Numbers)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province	National Board No.
Reactor Vessel	Combustion Engineering	206-1	ARK-2204	22009
Pressurizer	Combustion Engineering	2T-001	ARK-2201	21497
Steam Generator 2E24A	Combustion Engineering	2E24A	ARK-2203	21083
Steam Generator 2E24B	Combustion Engineering	2E24B	ARK-2202	21084
Reactor Coolant Pump 2P32A	Byron Jackson	N/A	N/A	N/A
Reactor Coolant Pump 2P32B	Byron Jackson	N/A	N/A	N/A
Reactor Coolant Pump 2P32C	Byron Jackson	N/A	N/A	N/A
Reactor Coolant Pump 2P32D	Byron Jackson	N/A	N/A	N/A
Class 1 Piping	Bechtel	N/A	N/A	N/A
Class 2 Piping	Bechtel	N/A	N/A	N/A
Class 1 Component Supports	Bechtel	N/A	N/A	N/A
Class 2 Component Supports	Bechtel	N/A	N/A	N/A
Class 3 Component Supports	Bechtel	N/A	N/A	N/A

Richard A. Lomax 7/9/91
 AP&L/Entergy by _____ Date _____
 for D. B. Lomax

Factory Mutual by *J. O. Elliott* Date 7/9/91
 J. O. Elliott, ANII

FORM NIS-1 (Back)

8. Examination Dates 02/22/91 to 04/20/91 9. inspection Interval from 03/26/90 to 03/26/00

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

A listing of all ISI examinations performed during refueling outage 2R8 are located on supplemental pages 3 of 11 through 11 of 11 of this report. This was the 1st refueling outage of the 1st Inspection Period of the 2nd Inspection Interval. Some examinations were performed for completion of the 1st Inspection Interval. These are noted in the ISI Component Examination Summary tables.

11. Abstract of Conditions Noted.

See the attached ISI Component Examination Summary tables for a detailed description of all findings discovered by component during the course of the examination effort.

12. Abstract of Corrective Measures Recommended and Taken.

See the attached ISI Component Examination Summary tables for a detailed discussion by component of corrective actions taken and corrective measures recommended.

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of ASME Code, Section XI.

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

Date July 9 1991 Signed AP&L/Entergy Operations Inc. By Richard A. Brown
Owner for D. B. Lomax

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 Arkwright Mutual Insurance Co. of Norwood, Mass. have inspected the components described in this Owner's Report during the period 2/22/91 to 4/20/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, express or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions Factory Mutual System
Inspector's Signature NB-9947, ARK-1133 "N" "I"
J. O. Elliott National Board, State, Province, and Endorsements

Date July 9 1991

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
FOR**

ASME Code Class 1 (IWB) and Class 2 (IWC) Components and their Component Supports (IWF)

1. Owner Arkansas Power & Light/Entergy Operations Inc., Capital & Broadway, Little Rock, AR 72203
(Name and Address of Owner)
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5. Commercial Service Date 03/26/80 6. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
B-D	B 3.110	Pressurizer	05-010	UT	Spray Nozzle-to-Top Head
B-D	B 3.110	Pressurizer	05-011	UT	Safety Nozzle-to-Top Head
B-D	B 3.120	Pressurizer	05-121	UT	Spray Nozzle Inner Radius
B-D	B 3.120	Pressurizer	05-122	UT	Safety Nozzle Inner Radius
B-F	B 5.130	Reactor Coolant (Main Loop)	03-014	UT,PT	Elbow-to-Safe End Butt Weld(1)
B-F	B 5.130	Reactor Coolant (Main Loop)	10-014	UT,PT	Elbow-to-Safe End Butt Weld(1)
B-F	B 5.130	Safety Injection	21-001	UT	Safe End-to-Nozzle Butt Weld(1)
B-F	B 5.130	Safety Injection	22-001	UT	Safe End-to-Nozzle Butt Weld(1)
B-F	B 5.130	Safety Injection	23-001	UT,PT	Safe End-to-Nozzle Butt Weld(1)
B-F	B 5.130	Safety Injection	24-001	UT	Safe End-to-Nozzle Butt Weld(1)
B-F	B 5.130	Safety Injection	25-001	UT,PT	Nozzle-to-Safe End Butt Weld(1)
B-F	B 5.40	Reactor Coolant	28-024	UT,PT	Safe End-to-Nozzle Butt Weld(1)
B-G-1	B 6.10	Reactor Vessel	01-N-001	MT	Reactor Vessel Closure Head Nut
B-G-1	B 6.10	Reactor Vessel	01-N-002	MT	Reactor Vessel Closure Head Nut
B-G-1	B 6.30	Reactor Vessel	01-S-001	UT,MT	Reactor Vessel Closure Head Stud
B-G-1	B 6.30	Reactor Vessel	01-S-002	UT,MT	Reactor Vessel Closure Head Stud
B-G-1	B 6.30	Reactor Vessel	01-S-028	UT,MT	Reactor Vessel Closure Head Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-001	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-002	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-003	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-004	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-005	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-006	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-007	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-008	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-009	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-010	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-011	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-012	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-013	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-014	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-015	UT	Reactor Coolant Pump Stud
B-G-1	B 6.180	Reactor Coolant Pump 2P32D	34-S-016	UT	Reactor Coolant Pump Stud
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-001	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-002	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-003	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-004	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-005	VT-1	Reactor Coolant Pump Nut

1) \geq NPS 4" 2) $<$ NPS 4" 3) \geq 3/8" NWT for $>$ NPS 4" 4) $>$ 1/5" NWT for \geq NPS 2" & \leq NPS 4" 5) \geq NPS 2"

AP&L/Entergy by Richard H. Gannon Date 7/9/91
for D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
J. O. Elliott, ANII

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
FOR**

ASME Code Class 1 (IWB) and Class 2 (IWC) Components and their Component Supports (IWF)

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(Name and Address of Owner)
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(Name and Address of Owner)
3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 6. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-006	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-007	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-008	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-009	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-010	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-011	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-012	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-013	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-014	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-015	VT-1	Reactor Coolant Pump Nut
B-G-1	B 6.200	Reactor Coolant Pump 2P32D	34-N-016	VT-1	Reactor Coolant Pump Nut
B-G-2	B 7.30	Steam Generator 2E24A	03-022	VT-1	Primary Manway Bolting @0°
B-G-2	B 7.30	Steam Generator 2E24A	03-023	VT-1	Primary Manway Bolting @112°
B-G-2	B 7.30	Steam Generator 2E24B	04-022	VT-1	Primary Manway Bolting @0°
B-G-2	B 7.30	Steam Generator 2E24B	04-023	VT-1	Primary Manway Bolting @112°
B-G-2	B 7.70	Safety Injection	21-079	VT-1	12" Check Valve 2SI-16B (Bolting)
B-G-2	B 7.70	Safety Injection	21-081	VT-1	12" Check Valve 2SI-15B (Bolting)
B-G-2	B 7.70	Safety Injection	21-082	VT-1	6" Check Valve 2SI-14B (Bolting)
B-G-2	B 7.70	Safety Injection	22-073	VT-1	12" Check Valve 2SI-15A (Bolting)
B-G-2	B 7.70	Safety Injection	22-074	VT-1	12" Check Valve 2SI-16A (Bolting)
B-G-2	B 7.70	Safety Injection	22-076	VT-1	6" Check Valve 2SI-14A (Bolting)
B-G-2	B 7.70	Safety Injection	23-084	VT-1	12" Check Valve 2SI-15C (Bolting)
B-G-2	B 7.70	Safety Injection	23-086	VT-1	6" Check Valve 2SI-14C (Bolting)
B-G-2	B 7.70	Safety Injection	24-091	VT-1	12" Check Valve 2SI-15D (Bolting)
B-G-2	B 7.70	Safety Injection	24-092	VT-1	6" Check Valve 2SI-14D (Bolting)
B-J	B 9.11	Reactor Coolant (Main Loop)	06-015	PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Reactor Coolant (Main Loop)	10-015	PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	21-001A	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	21-004	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	21-005	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	21-006	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	22-001A	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	22-003	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	22-004	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-001A	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-003	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-004	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-005	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-006	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-007	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-008	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-009	UT,PT	Piping Circumferential Butt Weld(1)

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AP&L/Entergy by Richard A. Barnes Date 7/9/91
for D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
J. O. Elliott, ANII

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
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3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 b. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
B-J	B 9.11	Safety Injection	23-010	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-020	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-023	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-024	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-025	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-026	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-027	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-047	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	23-048	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	24-002	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	24-003	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	24-010	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	24-011	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	24-012	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Safety Injection	24-013	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Shutdown Cooling	25-002	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Shutdown Cooling	25-003	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Shutdown Cooling	25-004	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Shutdown Cooling	25-005	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Shutdown Cooling	25-006	UT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Reactor Coolant	28-023	UT,RT	Piping Circumferential Butt Weld(1)
B-J	B 9.11	Reactor Coolant	43-019	UT,PT	Piping Circumferential Butt Weld(1)
B-J	B 9.12	Reactor Coolant (Main Loop)	08-012	UT,PT	Piping Longitudinal Weld(1)
B-J	B 9.12	Reactor Coolant (Main Loop)	08-013	UT,PT	Piping Longitudinal Weld(1)
B-J	B 9.12	Reactor Coolant (Main Loop)	10-012	UT,PT	Piping Longitudinal Weld(1)
B-J	B 9.12	Reactor Coolant (Main Loop)	10-013	UT,PT	Piping Longitudinal Weld(1)
B-J	B 9.21	Safety Injection	23-042	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Safety Injection	23-043	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Shutdown Cooling	25-024	UT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Shutdown Cooling	25-025	UT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Shutdown Cooling	25-026	UT,PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Shutdown Cooling	25-027	UT,PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Shutdown Cooling	25-028	UT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	37-004	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	37-005	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	37-006	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	37-007	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	37-008	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	37-009	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	37-010	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Chemical & Volume Control	40-002	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Chemical & Volume Control	40-003	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Chemical & Volume Control	40-005	PT	Piping Circumferential Butt Weld(2)

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AP&L/Entergy by Richard A. Bauer Date 7/9/91
for D. B. Lomax

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ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
B-J	B 9.21	Chemical & Volume Control	40-027	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Chemical & Volume Control	40-028	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Chemical & Volume Control	40-031	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	43-033	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.21	Reactor Coolant	43-034	PT	Piping Circumferential Butt Weld(2)
B-J	B 9.32	Shutdown Cooling	25-004A	PT	Piping Branch Connection(2)
B-M-2	B12.50	Safety Injection	21-074	VT-3	12" Check Valve 2SI-16B (Inner Surface)
B-M-2	B12.50	Safety Injection	22-045	VT-3	12" Check Valve 2SI-15A (Inner Surface)
B-M-2	B12.50	Safety Injection	22-046	VT-3	12" Check Valve 2SI-16A (Inner Surface)
B-M-2	B12.50	Safety Injection	22-048	VT-3	6" Check Valve 2SI-14A (Inner Surface)
C-A	C 1.10	Steam Generator 2E24A	03-030	UT	Intermediate Shell-to-Conical Shell
C-A	C 1.10	Steam Generator 2E24A	03-031	UT	Conical Shell-to-Upper Shell
C-B	C 2.21	Steam Generator 2E24A	03-035	MT	Feedwater Nozzle-to-Upper Shell
C-C	C 3.10	Steam Generator 2E24A	03-040	MT	Snubber Lug @90°
C-C	C 3.10	Steam Generator 2E24A	03-041	MT	Snubber Lug @270°
C-C	C 3.20	Feedwater	19-027W	MT	Spring Hanger 2DBB-2-H3
C-C	C 3.20	Feedwater	19-040W	MT	Spring Hanger 2DBB-2-H14
C-C	C 3.20	Shutdown Cooling	59-038W	PT	Spring Hanger 2GCB-16-H20
C-F-1	C 5.11	Safety Injection	66-002	UT,PT	Piping Circumferential Butt Weld(3)
C-F-1	C 5.11	Safety Injection	66-005	UT,PT	Piping Circumferential Butt Weld(3)
C-F-1	C 5.21	High Pressure Safety Injection	80-110	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	80-111	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	80-112	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	80-115	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	80-123	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	80-196	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	81-063	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	81-064	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	82-003	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	82-014	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	83-003	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	83-006	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.21	High Pressure Safety Injection	83-007	UT,PT	Piping Circumferential Butt Weld(4)
C-F-1	C 5.30	High Pressure Safety Injection	80-384	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-386	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-389	PT	Piping Socket Weld

1) \geq NPS 4" 2) $<$ NPS 4" 3) \geq 3/8" NWT for $>$ NPS 4" 4) $>$ 1/5" NWT for \geq NPS 2" & \leq NPS 4" 5) \geq NPS 2"

AP&L/Entergy by Richard A. Barnes Date 7/9/91
for D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
J. O. Elliott, ANII

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
FOR**

ASME Code Class 1 (IWB) and Class 2 (IWC) Components and their Component Supports (IWF)

1. Owner Arkansas Power & Light/Entergy Operations Inc./Capital & Broadway/Little Rock, AR 72203
(Name and Address of Owner)
2. Plant Arkansas Nuclear One/Route 3, Box 137G, Russellville, Arkansas 72801
(Name and Address of Owner)
3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 E. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
C-F-1	C 5.30	High Pressure Safety Injection	80-390	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-394	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-396	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-398	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-400	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-535	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-536	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-539	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	80-540	PT	Piping Socket Weld
C-F-1	C 5.30	High Pressure Safety Injection	82-019	PT	Piping Socket Weld
C-F-1	C 5.41	High Pressure Safety Injection	80-197	PT	Piping Branch Connection(5)
C-F-2	C 5.51	Feedwater	17-001	UT,MT	Piping Circumferential Butt Weld(3)
C-F-2	C 5.51	Feedwater	17-004	UT,MT	Piping Circumferential Butt Weld(3)
C-F-2	C 5.51	Feedwater	17-024	UT,MT	Piping Circumferential Butt Weld(3)
C-F-2	C 5.51	Feedwater	62-003	UT,MT	Piping Circumferential Butt Weld(3)
C-F-2	C 5.51	Main Steam	63-022	UT,MT	Piping Circumferential Butt Weld(3)
F-A	F 1.10F	Reactor Coolant (Surge Line)	16-017	VT-3	Snubber 2BCA-1-H2
F-A	F 1.10F	Reactor Coolant (Surge Line)	16-018	VT-3	Snubber 2BCA-1-H3
F-A	F 1.10F	Safety Injection	21-057	VT-3	Snubber 2CCA-21-H12
F-A	F 1.10F	Safety Injection	21-058	VT-3	Snubber 2CCA-21-H18
F-A	F 1.10F	Safety Injection	21-061	VT-3	Snubber 2CCA-21-H10
F-A	F 1.10F	Safety Injection	21-063	VT-3	Snubber 2CCA-21-H17
F-A	F 1.10F	Safety Injection	21-067	VT-3	Snubber 2CCA-21-H15
F-A	F 1.10F	Safety Injection	21-068	VT-3	Snubber 2CCA-21-H19
F-A	F 1.10F	Safety Injection	21-072	VT-3	Snubber 2CCA-21-H16
F-A	F 1.10F	Safety Injection	22-050	VT-3	Snubber 2CCA-22-H22
F-A	F 1.10F	Safety Injection	22-052	VT-3	Snubber 2CCA-22-H21
F-A	F 1.10F	Safety Injection	22-055	VT-3	Snubber 2CCA-22-H19
F-A	F 1.10F	Safety Injection	22-056	VT-3	Snubber 2CCA-22-H18
F-A	F 1.10F	Safety Injection	22-057	VT-3	Snubber 2CCA-22-H17
F-A	F 1.10F	Safety Injection	22-060	VT-3	Snubber 2CCA-22-H15
F-A	F 1.10F	Safety Injection	22-062	VT-3	Snubber 2CCA-22-H14
F-A	F 1.10F	Safety Injection	22-064	VT-3	Snubber 2CCA-22-H13
F-A	F 1.10F	Safety Injection	23-059	VT-3	Snubber 2CCA-24-H15
F-A	F 1.10F	Safety Injection	23-061	VT-3	Snubber 2CCA-24-H17
F-A	F 1.10F	Safety Injection	23-063	VT-3	Snubber 2CCA-24-H19
F-A	F 1.10F	Safety Injection	23-075	VT-3	Snubber 2CCA-24-H27
F-A	F 1.10F	Safety Injection	23-076	VT-3	Snubber 2CCA-24-H24
F-A	F 1.10F	Safety Injection	24-067	VT-3	Snubber 2CCA-23-H11
F-A	F 1.10F	Safety Injection	24-074	VT-3	Snubber 2CCA-23-H26
F-A	F 1.10F	Safety Injection	24-076	VT-3	Snubber 2CCA-23-H27
F-A	F 1.10F	Safety Injection	24-077	VT-3	Snubber 2CCA-23-H18

1) \geq NPS 4" 2) $<$ NPS 4" 3) \geq 3/8" NWT for $>$ NPS 4" 4) $>$ 1/5" NWT for \geq NPS 2" & \leq NPS 4" 5) \geq NPS 2"

AP&L/Entergy by Richard A. Lomax Date 7/9/91
for D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
J. O. Elliott, ANII

SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
FOR
ASME Code Class 1 (IWB) and Class 2 (IWC) Components and their Component Supports (WF)

1. Owner Arkansas Power & Light/Entergy Operations Inc., Capital & Broadway, Little Rock, AR 72203
 (Name and Address of Owner)
2. Plant Arkansas Nuclear One, Route 3, Box 137G, Russellville, Arkansas 72801
 (Name and Address of Owner)
3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 6. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
F-A	F 1.10F	Safety Injection	24-079	VT-3	Snubber 2CCA-23-H28
F-A	F 1.10F	Safety Injection	24-080	VT-3	Snubber 2CCA-23-H21
F-A	F 1.10F	Safety Injection	24-084	VT-3	Snubber 2CCA-23-H23
F-A	F 1.10F	Shutdown Cooling	25-074	VT-3	Snubber 2CCA-25-H3
F-A	F 1.10F	Shutdown Cooling	25-075	VT-3	Snubber 2CCA-25-H4
F-A	F 1.10F	Shutdown Cooling	25-077	VT-3	Snubber 2CCA-25-H5
F-A	F 1.10F	Shutdown Cooling	25-079	VT-3	Snubber 2CCA-25-H6
F-A	F 1.10F	Shutdown Cooling	25-082	VT-3	Snubber 2CCA-25-H10
F-A	F 1.10F	Shutdown Cooling	25-084	VT-3	Snubber 2CCA-25-H14
F-A	F 1.10F	Shutdown Cooling	25-088	VT-3	Snubber 2CCA-25-H13
F-A	F 1.10F	Reactor Coolant	26-024	VT-3	Snubber 2CCA-14-H2
F-A	F 1.10F	Reactor Coolant	26-028	VT-3	Snubber 2CCA-15-H9
F-A	F 1.10F	Reactor Coolant	26-030	VT-3	Snubber 2CCA-15-H27
F-A	F 1.10F	Reactor Coolant	26-031	VT-3	Snubber 2CCA-15-H26
F-A	F 1.10F	Reactor Coolant	26-053	VT-3	Snubber 2CCA-14-H5
F-A	F 1.10F	Reactor Coolant	26-054	VT-3	Snubber 2CCA-15-H45
F-A	F 1.10F	Reactor Coolant	26-055	VT-3	Snubber 2CCA-15-H44
F-A	F 1.10F	Reactor Coolant	26-060	VT-3	Snubber 2CCA-15-H41
F-A	F 1.10F	Reactor Coolant	26-062	VT-3	Snubber 2CCA-15-H39
F-A	F 1.10F	Reactor Coolant	27-030	VT-3	Snubber 2CCA-13-H4
F-A	F 1.10F	Reactor Coolant	27-034	VT-3	Snubber 2CCA-15-H24
F-A	F 1.10F	Reactor Coolant	27-067	VT-3	Snubber 2CCA-15-H60
F-A	F 1.10F	Reactor Coolant	27-074	VT-3	Snubber 2CCA-15-H56
F-A	F 1.10F	Reactor Coolant	27-076	VT-3	Snubber 2CCA-15-H53
F-A	F 1.10F	Reactor Coolant	27-078	VT-3	Snubber 2CCA-15-H50
F-A	F 1.10F	Reactor Coolant	27-081	VT-3	Snubber 2CCA-15-H48
F-A	F 1.10F	Reactor Coolant	28-036	VT-3	Snubber 2CCA-15-H29
F-A	F 1.10F	Reactor Coolant	28-037	VT-3	Snubber 2CCA-15-H30
F-A	F 1.10F	Reactor Coolant	28-054	VT-3	Snubber 2CCA-15-H31
F-A	F 1.10F	Reactor Coolant	28-056	VT-3	Snubber 2CCA-15-H34
F-A	F 1.10F	Reactor Coolant	28-058	VT-3	Snubber 2CCA-15-H36
F-A	F 1.10F	Chemical & Volume Control	29-029	VT-3	Snubber 2CCA-16-H19
F-A	F 1.10F	Chemical & Volume Control	29-036	VT-3	Snubber 2CCA-16-H3
F-A	F 1.10F	Chemical & Volume Control	29-038	VT-3	Snubber 2CCA-16-H4
F-A	F 1.10F	Chemical & Volume Control	29-062	VT-3	Snubber 2CCA-16-H21
F-A	F 1.10F	Chemical & Volume Control	29-064	VT-3	Snubber 2CCA-16-H16
F-A	F 1.10F	Chemical & Volume Control	29-068	VT-3	Snubber 2CCA-16-H12
F-A	F 1.10F	Reactor Coolant	35-019	VT-3	Snubber 2CCA-32-H2
F-A	F 1.10F	Chemical & Volume Control	41-045	VT-3	Snubber 2CCA-26-H2
F-A	F 1.10F	Reactor Coolant	43-041	VT-3	Snubber 2BCA-14-H7
F-A	F 1.10F	Reactor Coolant	43-044	VT-3	Snubber 2BCA-14-H14
F-A	F 1.10F	Reactor Coolant	43-046	VT-3	Snubber 2BCA-14-H3
F-A	F 1.10F	Reactor Coolant	43-047	VT-3	Snubber 2BCA-14-H5
F-A	F 1.10F	Reactor Coolant	43-049	VT-3	Snubber 2BCA-14-H13
F-A	F 1.10F	Reactor Coolant	43-050	VT-3	Snubber 2BCA-14-H12

1) \geq NPS 4" 2) $<$ NPS 4" 3) \geq 3/8" NWT for $>$ NPS 4" 4) $>$ 1/5" NWT for \geq NPS 2" & \leq NPS 4" 5) \geq NPS 2"

AP&L/Entergy by Richard A. Barnes Date 7/9/91
 FOR D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
 J. O. Elliott, ANII

SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
FOR
ASME Code Class 1 (IWB) and Class 2 (IWC) Components and their Component Supports (IWF)

1. Owner Arkansas Power & Light/Entergy Operations Inc.; Capital & Broadway, Little Rock, AR 72203
 (Name and Address of Owner)
2. Plant Arkansas Nuclear One; Route 3, Box 137G; Russellville, Arkansas 72801
 (Name and Address of Owner)
3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 6. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
F-A	F 1.10F	Reactor Coolant	43-051	VT-3	Snubber 2BCA-14-H15
F-A	F 1.10F	Reactor Coolant	43-054	VT-3	Snubber 2BCA-14-H1
F-A	F 1.20B	Shutdown Cooling	30-019	VT-3	Guide Hanger 2GCB-5-H16
F-A	F 1.20F	Feedwater	17-027	VT-3	Snubber 2DBB-1-H3
F-A	F 1.20F	Feedwater	17-028	VT-3	Snubber 2DBB-1-H2
F-A	F 1.20F	Feedwater	17-029	VT-3	Snubber 2DBB-1-H4
F-A	F 1.20F	Feedwater	17-030	VT-3	Snubber 2DBB-1-H6
F-A	F 1.20F	Feedwater	17-031	VT-3	Snubber 2DBB-1-H17
F-A	F 1.20F	Feedwater	17-033	VT-3	Snubber 2DBB-1-H9
F-A	F 1.20F	Feedwater	17-034	VT-3	Snubber 2DBB-1-H8
F-A	F 1.20F	Feedwater	17-035	VT-3	Snubber 2DBB-1-H10
F-A	F 1.20F	Feedwater	17-037	VT-3	Snubber 2DBB-1-H13
F-A	F 1.20F	Feedwater	17-038	VT-3	Snubber 2DBB-1-H12
F-A	F 1.20F	Feedwater	17-039	VT-3	Snubber 2DBB-1-H14
F-A	F 1.20F	Main Steam	18-020	VT-3	Snubber 2EBB-1A-H5
F-A	F 1.20F	Main Steam	18-021	VT-3	Snubber 2EBB-1A-H4
F-A	F 1.20F	Main Steam	18-023	VT-3	Snubber 2EBB-1A-H7
F-A	F 1.20F	Main Steam	18-024	VT-3	Snubber 2EBB-1A-H6
F-A	F 1.20F	Feedwater	19-028	VT-3	Snubber 2C3B-2-H2
F-A	F 1.20F	Feedwater	19-029	VT-3	Snubber 2DBB-2-H16
F-A	F 1.20F	Feedwater	19-032	VT-3	Snubber 2DBB-2-H19
F-A	F 1.20F	Feedwater	19-033	VT-3	Snubber 2DBB-2-H8
F-A	F 1.20F	Feedwater	19-034	VT-3	Snubber 2DBB-2-H17
F-A	F 1.20F	Feedwater	19-037	VT-3	Snubber 2DBB-2-H11
F-A	F 1.20F	Feedwater	19-039	VT-3	Snubber 2DBB-2-H13
F-A	F 1.20F	Feedwater	19-041	VT-3	Snubber 2DBB-2-H15
F-A	F 1.20F	Main Steam	20-018	VT-3	Snubber 2EBB-2A-H4
F-A	F 1.20F	Main Steam	20-019	VT-3	Snubber 2EBB-2A-H5
F-A	F 1.20F	Main Steam	20-021	VT-3	Snubber 2EBB-2A-H6
F-A	F 1.20F	Main Steam	20-022	VT-3	Snubber 2EBB-2A-H7
F-A	F 1.20F	Shutdown Cooling	30-018	VT-3	Snubber 2GCB-5-H21
F-A	F 1.20F	Safety Injection	50-022	VT-3	Snubber 2GCB-5-H23
F-A	F 1.20F	Safety Injection	52-040	VT-3	Snubber 2GCB-5-H31
F-A	F 1.20F	Safety Injection	52-042	VT-3	Snubber 2GCB-2-H3
F-A	F 1.20F	Safety Injection	57-025	VT-3	Snubber 2GCB-3-H22
F-A	F 1.20F	Safety Injection	58-028A	VT-3	Snubber 2GCB-3-H24
F-A	F 1.20F	Safety Injection	61-015	VT-3	Snubber 2CCB-4-H24
F-A	F 1.20F	Main Steam	63-038	VT-3	Snubber 2EBB-1-H4
F-A	F 1.20F	Main Steam	63-041	VT-3	Snubber 2EBB-8-H2
F-A	F 1.20F	Main Steam	65-035	VT-3	Snubber 2EBB-2-H4
F-A	F 1.20F	Main Steam	65-037	VT-3	Snubber 2EBB-2-H6
F-A	F 1.20F	Main Steam	65-038	VT-3	Snubber 2EBB-2-H5
F-A	F 1.20F	Containment Spray	75-041	VT-3	Snubber 2GCB-10-H5

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AP&L/Entergy by Richard A. Barnes Date 7/9/91
 for D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
 J. O. Elliott, ANII

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
FOR**

ACME Code Class 1 (IWB) and Class 2 (IWC) Components and their Component Supports (IWF)

1. Owner Arkansas Power & Light/Entergy Operations Inc.; Capital & Broadway; Little Rock, AR 72203
(Name and Address of Owner)
2. Plant Arkansas Nuclear One; Route 3, Box 137G; Russellville, Arkansas 72801
(Name and Address of Owner)
3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 6. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or System	Exam No.	Exam Method	Remarks
F-A	F 1.20F	Containment Spray	76-046	VT-3	Snubber 2GCB-11-H5
F-A	F 1.20F	Containment Spray	78-061	VT-3	Snubber 2HCB-15-H15
F-A	F 1.20F	Containment Spray	79-071	VT-3	Snubber 2HCB-27-H7
F-A	F 1.30B	Service Water	72-039	VT-3	Guide Hanger 2HBC-33-H4
F-A	F 1.30E	Service Water	73-059	VT-3	Rigid Hanger 2HBC-81-H6
F-A	F 1.30F	Service Water	72-134	VT-3	Snubber 2HBC-103-H22
F-A	F 1.30F	Service Water	72-136	VT-3	Snubber 2HBC-103-H18
F-A	F 1.30F	Service Water	72-137	VT-3	Snubber 2HBC-103-H20
F-A	F 1.30F	Service Water	72-138	VT-3	Snubber 2HBC-103-H17
F-A	F 1.30F	Service Water	72-153	VT-3	Snubber 2HBC-105-H4
F-A	F 1.30F	Service Water	72-159	VT-3	Snubber 2HBC-105-H14
F-A	F 1.30F	Service Water	72-161	VT-3	Snubber 2HBC-105-H17
F-A	F 1.30F	Service Water	72-162	VT-3	Snubber 2HBC-105-H16
F-A	F 1.30F	Service Water	72-163	VT-3	Snubber 2HBC-105-H18
RG	1.14	Reactor Coolant Pump 2P32B	31-008	UT	Flywheel - Bore & Keyway
RG	1.14	Reactor Coolant Pump 2P32B	31-008	UT,ET	Flywheel - Entire Surface Area
RG	1.14	Reactor Coolant Pump 2P32A	32-008	UT	Flywheel - Bore & Keyway
RG	1.14	Reactor Coolant Pump 2P32A	32-009	UT,ET	Flywheel - Entire Surface Area
RG	1.14	Reactor Coolant Pump 2P32C	33-008	UT	Flywheel - Bore & Keyway
RG	1.14	Reactor Coolant Pump 2P32C	33-009	UT,ET	Flywheel - Entire Surface Area
RG	1.14	Reactor Coolant Pump 2P32D	34-008	UT	Flywheel - Bore & Keyway
RG	1.14	Reactor Coolant Pump 2P32D	34-009	UT,ET	Flywheel - Entire Surface Area

1) \geq NPS 4" 2) $<$ NPS 4" 3) \geq 3/8" NWT for $>$ NPS 4" 4) $>$ 1/5" NWT for \geq NPS 2" & \leq NPS 4" 5) \geq NPS 2"

AP&L/Entergy by Richard A. Barnes Date 7/9/91
for D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
J. O. Elliott, ANII

**SUPPLEMENT TO FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTION
FOR
ASME CODE CLASS 1 (IWB) PRESSURE RETAINING COMPONENTS**

1. Owner Arkansas Power & Light/Entergy Operations Inc., Capital & Broadway, Little Rock, AR 72203
(Name and Address of Owner)
2. Plant Arkansas Nuclear One, Route 3, Box 137G, Russellville, Arkansas 72801
(Name and Address of Owner)
3. Plant Unit 2 4. Owner and Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/26/80 6. National Board Number for Unit 22009

ASME Category	ASME Item No.	Component or Piping Line Identification	Exam Method	Remarks
B-P	B15.10	Reactor Vessel (2R1)	VT-2	System Leakage Test
B-P	B15.10	Pressurizer (2T1)	VT-2	System Leakage Test
B-P	B15.30	Steam Generators 2E24A & 2E24B	VT-2	System Leakage test
B-P	B15.50	Piping Line Nos. = 2BCA-1-12", 2BCA-14, 2BCA-16, 2CCA-1-42", 2CCA-2-42", 2CCA-3-30", 2CCA-4-30", 2CCA-5-30", 2CCA-6-30", 2CCA-7-30", 2CCA-8-30", 2CCA-9-30", 2CCA-10-30", 2CCA-12, 2CCA-13, 2CCA-14, 2CCA-15, 2CCA-16, 2CCA-17, 2CCA-18, 2CCA-21, 2CCA-22, 2CCA-23, 2CCA-24, 2CCA-25, 2CCA-26, 2CCA-27, 2CCA-29, 2CCA-30, 2CCA-31, 2CCA-32, 2CCA-38, 2CCA-47, 2CCA-51, 2CCA-52, 2CCA-53, 2CCA-54, 2CCA-57	VT-2	System Leakage Test
B-P	B15.70	Valve Nos. = 2PSV-4633, 2PSV-4634, 2CV-4820-2, 2CV-4821-1, 2CVC-4820-A, 2CVC-4820-B, 2RC-4A, 2RC-5A, 2RC-1002A, 2RC-1003A, 2RC-1002B, 2RC-1003B, 2RC-1004, 2RC-1005, 2CV-4653, 2RC-8B, 2CV-4652, 2CV-4654, 2CV-4655, 2CV-4651, 2CV-4656, 2RC-8A, 2CVC-1197, 2CVC-1198, 2CVC-28A, 2CV-4824-2, 2RC-1001, 2RC-1006A, 2RC-1006B, 2SV-4668-1, 2SV-4668-2, 2RC-3, 2RC-3A, 2SI-15B, 2CV-5023-1, 2SI-5020A, 2SI-5020B, 2SI-5133A, 2SI-5133B, 2SI-16B, 2SI-1072A, 2SI-1072B, 2SI-13B, 2SI-14B, 2SI-15A, 2SI-5000A, 2SI-5000B, 2CV-5003-1, 2SI-5113A, 2SI-5113B, 2SI-16A, 2SI-14A, 2SI-5131, 2SI-5132, 2SI-13A, 2SI-15D, 2SI-5060A, 2SI-5060B, 2CV-5060-2, 2SI-5173A, 2SI-5173B, 2SI-16D, 2SI-1052, 2SI-1053, 2SI-14D, 2SI-13D, 2SI-15C, 2SI-5040A, 2SI-5040B, 2CV-5043-2, 2SI-5153A, 2SI-5153B, 2SI-16C, 2SI-1054, 2SI-1055, 2SI-14C, 2SI-13C, 2CV-5084-1, 2SI-19, 2CV-5086-2, 2SI-5116A, 2SI-5116B, 2SI-29A, 2SI-29B, 2SI-28A, 2SI-28B, 2SI-27A, 2SI-27B, 2CVC-1188, 2CVC-1189, 2CVC-28C, 2CV-4831-2, 2CVC-1186, 2CVC-1187, 2CVC-28B, 2CV-4827-2, 2CVC-27, 2CVC-26, 2RC-4B, 2RC-5B, 2RC-4C, 2RC-5C, 2RC-4D, 2RC-5D, 2RC-4E, 2RC-5E, 2RC-6B, 2RC-7B, 2RC-6A, 2RC-7A, 2SV-5021-1, 2SI-41, 2SV-5001-1, 2SI-47, 2SV-5061-2, 2SI-53, 2SV-5041-2, 2SI-59, 2PSV-5085	VT-2	System Leakage Test

AP&L/Entergy by Richard A. Barnes Date 7/9/91
for D. B. Lomax

Factory Mutual by J. O. Elliott Date 7/9/91
J. O. Elliott, ANII

ATTACHMENT 2

SUMMARY OF THE ISI
COMPONENT EXAMINATION

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-D

Exam. No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	
05-010	B-D	UT0° DAC	✓	-	Limited UT scanning coverage
4" Spray Nozzle to Top Head	B 3.110	UT45° Shear-Axial	✓	-	on nozzle side due to transducer
Pressurizer		UT45° Shear-Circ	✓	-	liftoff on nozzle taper.
		UT60° Shear-Axial	✓	-	
		UT60° Shear-Circ	✓	-	
05-011	B-D	UT0° DAC	✓	-	Limited UT scanning coverage
6" Safety Nozzle to Top Head	B 3.110	UT45° Shear-Axial	✓	-	on nozzle side due to transducer
Pressurizer		UT45° Shear-Circ	✓	-	liftoff on nozzle taper.
		UT60° Shear-Axial	✓	-	
		UT60° Shear-Circ	✓	-	
05-121	B-D	UT60° Shear-Axial	✓	-	Limited UT scanning coverage
4" Spray Nozzle Inner Radius	B 3.120	UT70° Shear-Axial	✓	-	due to proximity of surrounding
Pressurizer					nozzles.
05-122	B-D	UT60° Shear-Axial	✓	-	Limited UT scanning coverage
6" Safety Nozzle Inner Radius	B 3.120	UT70° Shear-Axial	✓	-	due to proximity of surrounding
Pressurizer					nozzles.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-F

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O G T R E H E O E C M R			Remarks
08-014 Elbow to Safe End 2CCA-5-30"	B-F B 5.130	PT UT45° Shear-Axial UT45° RLong-Axial UT45° RLong-Circ	-	-	✓	One 3/32" linear PT indication recorded. Indication acceptable per IWB-3514-2. No UT examination performed from safe end side due to configuration.
10-014 Elbow to Safe End 2CCA-3-30"	B-F B 5.130	PT UT45° RLong-Axial UT45° RLong-Circ	-	-	✓	Three linear PT indications recorded with lengths of 3/32", 5/32", and 5/16". Indications acceptable per IWB-3514-2 & 4. No UT examination performed from safe end side due to configuration.
21-001 Safe End to Nozzle 2CCA-21-12"	B-F B 5.130	UT45° RLong-Axial UT45° RLong-Circ	✓	-	-	Augmented examination per NRCB 88-08. Limited UT45° Axial scan coverage from nozzle side due to nozzle configuration.
22-001 Safe End to Nozzle 2CCA-22-12"	B-F B 5.130	UT45° RLong-Axial UT45° RLong-Circ	✓	-	-	Augmented examination per NRCB 88-08. No UT scanning coverage for 4" of weld length due to proximity of pipe to wall.
23-001 Safe End to Nozzle 2CCA-24-12"	B-F B 5.130	PT UT45° RLong-Axial UT45° RLong-Circ	✓	-	-	Augmented examination per NRCB 88-08. Code credit also taken. Limited UT45° Axial scan coverage from nozzle side due to nozzle configuration.
24-001 Safe End to Nozzle 2CCA-23-12"	B-F B 5.130	UT45° RLong-Axial UT45° RLong-Circ	✓	-	-	Augmented examination per NRCB 88-08.
25-001 Nozzle to Safe End 2CCA-25-14"	B-F B 5.130	PT UT45° RLong-Axial UT45° RLong-Circ	✓	-	-	Augmented examination per NRCB 88-08. Code credit also taken. No UT45° Axial scan coverage from nozzle side due to nozzle configuration.

ARKANSAS NUCLEAR ONE - UNIT 2
 REFUELING OUTAGE No. 8 (2R8)
 2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-F

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
Line #/Component Type	Item No.	Exam Method	R	E	H	
			E	O	E	
			C	M	R	Remarks
28-024	B-F	PT	✓	-	-	
Safe End to Nozzle	B 5.40	UT45° Shear-Circ	✓	-	-	
2CCA-15-4"		UT60° Shear-Axial	✓	-	-	
		UT60° RLong-Axial	✓	-	-	

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-1

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
Line #/Component Type	Item No.	Exam Method	R	E	H	
			E	O	E	
			C	M	R	Remarks
01-N-001 Closure Head Nut Reactor Vessel	B-G-1 B 6.10	MT	✓	-	-	Examination performed per 1st Inspection Interval requirements.
01-N-002 Closure Head Nut Reactor Vessel	B-G-1 B 6.10	MT	✓	-	-	Examination performed per 1st Inspection Interval requirements.
01-S-001 Closure Head Stud Reactor Vessel	B-G-1 B 6.30	MT UT0+ DAC	✓ ✓	- -	- -	Examination performed per 1st Inspection Interval requirements.
01-S-002 Closure Head Stud Reactor Vessel	B-G-1 B 6.30	MT UT0+ DAC	✓ ✓	- -	- -	Examination performed per 1st Inspection Interval requirements.
01-S-028 Closure Head Stud Reactor Vessel	B-G-1 B 6.30	MT UT0+ DAC	✓ ✓	- -	- -	Examination performed per 1st Inspection Interval requirements.
34-S-001 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0+ DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-002 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0+ DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-003 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0+ DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-004 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0+ DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-005 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0+ DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-1

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	G T H O M	O T E R	Remarks
34-S-006 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.1EJ	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-007 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-008 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-009 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-010 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-011 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-012 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-013 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-014 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-S-015 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	-	Examination performed per 1st Inspection Interval requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-1

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	
34-S-016 Reactor Coolant Pump Stud Reactor Coolant Pump 2P32D	B-G-1 B 6.180	UT0- DAC	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-001 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-002 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-003 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-004 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-005 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-006 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-007 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-008 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
34-N-009 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-1

Exam No. Component Description <u>Line #/Component Type</u>	ASME Code Category <u>Item No.</u>	<u>Exam Method</u>	N O R E C	G E O M	O T H E R	<u>Remarks</u>
34-N-010 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-N-011 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-N-012 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-N-013 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-N-014 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	-	Examination performed per 1st Inspection interval requirements.
34-N-015 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	-	Examination performed per 1st Inspection Interval requirements.
34-N-016 Reactor Coolant Pump Nut Reactor Coolant Pump 2P32D	B-G-1 B 6.200	VT-1	✓	-	-	Examination performed per 1st Inspection Interval requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-2

Exam No.	ASME Code		N	G	O	
Component Description	Category		R	E	H	
Line #/Component Type	Item No.	Exam Method	E	O	E	
			C	M	H	Remarks
03-022	B-G-2	VT-1 (Inservice)	-	-	✓	Exam performed per 1st Inspection Interval requirements. Finding → Evidence of corrosion, pitting, etc., on manway studs and nuts. Action Taken → Eleven studs and one nut were replaced. Baseline exam performed on replacement studs and nut.
Primary Manway Bolting @0°	B 7.30	VT-1 (Baseline)	✓	-	-	
Steam Generator 2E24A						
03-023	B-G-2	VT-1	✓	-	-	
Primary Manway Bolting @112°	B 7.30					
Steam Generator 2E24A						
04-022	B-G-2	VT-1 (Inservice)	-	-	✓	Examination performed per 1st Inspection Interval requirements. Finding → Evidence of corrosion, pitting, etc., on manway studs and nuts. Action Taken → Eleven studs and one nut were replaced. Baseline exam performed on replacement studs and nut.
Primary Manway Bolting @0°	B 7.30	VT-1 (Baseline)	✓	-	-	
Steam Generator 2E24B						
04-023	B-G-2	VT-1 (Inservice)	-	-	✓	Examination performed per 1st Inspection Interval requirements. Finding → Evidence of corrosion, pitting, etc., on manway studs and nuts. Action Taken → Eleven studs and one nut were replaced. Baseline exam performed on replacement studs and nut.
Primary Manway Bolting @112°	B 7.30	VT-1 (Baseline)	✓	-	-	
Steam Generator 2E24B						

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-2

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	
21-079 12" Check Valve 2SI-16B 2CCA-21-12"	B-G-2 B 7.70	VT-1	✓	-	
21-081 12" Check Valve 2SI-15B 2CCA-21-12"	B-G-2 B 7.70	VT-1	-	-	✓ Examination performed per 1st Inspection Interval requirements. Finding → Boron residue accumulation. Action Taken → Boric Acid corrosion evaluation performed revealed no significant leakage concerns. Valve comprised solely of stainless steel components with no carbon steel components located in leakage flow path.
21-082 6" Check Valve 2SI-14B 2CCA-21-6"	B-G-2 B 7.70	VT-1	-	-	✓ Examination performed per 1st Inspection Interval requirements. Finding → Boron residue accumulation and lack of sufficient thread engagement of pressure retaining hinge pin bolting. Action Taken → Boron residue removed. Engineering evaluation performed on lack of sufficient thread engagement issue and determination made that since full thread engagement (studs flush with nuts or threads exposed beyond nuts) exist in all cases, this condition is considered acceptable "as is".
22-073 12" Check Valve 2SI-15A 2CCA-22-12"	B-G-2 B 7.70	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
22-074 12" Check Valve 2SI-16A 2CCA-22-12"	B-G-2 B 7.70	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-2

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	
22-076 6" Check Valve 2SI-14A 2CCA-22-6"	B-G-2 B 7.70	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
23-084 12" Check Valve 2SI-15C 2CCA-24-12"	B-G-2 B 7.70	VT-1	✓	-	Examination performed per 1st Inspection Interval requirements.
23-086 6" Check Valve 2SI-17C 2CCA-24-6"	B-G-2 B 7.70	VT-1	-	-	✓ Examination performed per 1st Inspection Interval requirements. Finding → Boron residue accumulation and lack of sufficient thread engagement of pressure retaining hinge pin bolting. Action Taken → Boron residue removed. Engineering evaluation performed on lack of sufficient thread engagement issue and determination made that since full thread engagement (studs flush with nuts or threads exposed beyond nuts) exist in all cases, this condition is considered acceptable "as is".
24-091 12" Check Valve 2SI-15D 2CCA-23-12"	B-G-2 B 7.70	VT-1	-	-	✓ Examination performed per 1st Inspection Interval requirements. Finding → Boron residue accumulation. Action Taken → Boric Acid corrosion evaluation performed revealed no significant leakage concerns. Valve comprised solely of stainless steel components with no carbon steel components located in leakage flow path.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-G-2

Exam No.	ASME Code		N	O	
Component Description	Category		O	G	T
Line #/Component Type	Item No.	Exam Method	R	E	H
			E	O	E
			C	M	R
24-092	B-G-2	VT-1	-	-	✓
6" Check Valve 2SI-14D	B 7.70				
2CCA-23-6"					
<p>Examination performed per 1st Inspection Interval requirements. Finding → Boron residue accumulation and lack of sufficient thread engagement of pressure retaining hinge pin bolting. Boric Acid corrosion evaluation performed recommended leakage at hinge pin cover be corrected.</p> <p>Action Taken → Boron residue removed. Engineering evaluation performed on lack of sufficient thread engagement issue and determination made that since full thread engagement (studs flush with nuts or threads exposed beyond nuts) exist in all cases, this condition is considered acceptable "as is". Hinge Pin cover gasket replaced.</p>					

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-J

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
Line #/Component Type	Item No.	Exam Method	R	E	H	
			E	O	E	
			C	M	R	Remarks
08-015 Safe End to Pump 2CCA-5-30"	B-J B 9.11	PT	✓	-	-	
10-015 Safe End to Pump 2CCA-3-30"	B-J B 9.11	PT	-	-	✓	Five linear PT indications recorded with lengths of 3/32" (3) and 1/8" (2). Indications acceptable per IWB-3514-2.
21-001A Elbow to Safe End 2CCA-21-12"	B-J B 9.11	UT45° Shear-Circ UT60° Shear-Axial UT45° RLong-Axial UT45° RLong-Circ UT60° RLong-Axial	✓ ✓ ✓ ✓ -	- - - - ✓	- - - - -	Augmented examination per NRCB 88-08.
21-001A/004 Elbow Crotch Region 2CCA-21-12"	NRCB 88-08	UT45° Shear-Axial UT45° Shear-Circ	✓ ✓	- -	- -	Augmented examination per NRCB 88-08.
21-004 Pipe to Elbow 2CCA-21-12"	B-J B 9.11	UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ -	- - ✓	- - -	Augmented examination per NRCB 88-08.
21-005 Elbow to Pipe 2CCA-21-12"	B-J B 9.11	UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ -	- - ✓	- - -	Augmented examination per NRCB 88-08.
21-005/006 Elbow Crotch Region 2CCA-21-12"	NRCB 88-08	UT45° Shear-Axial UT45° Shear-Circ	✓ ✓	- -	- -	Augmented examination per NRCB 88-08.
21-006 Valve to Elbow 2CCA-21-12"	B-J B 9.11	UT45° Shear-Circ UT60° Shear-Axial UT70° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	Augmented examination per NRCB 88-08.
22-001A Elbow to Safe End 2CCA-22-12"	B-J B 9.11	UT60° Shear-Axial UT60° Shear-Circ UT45° RLong-Axial UT45° RLong-Circ UT60° RLong-Axial	✓ ✓ ✓ ✓ ✓	- - - - -	- - - - -	Augmented examination per NRCB 88-08.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-J

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O T O G T R E H E O E C M R			Remarks
22-001A/003 Elbow Crotch Region 2CCA-22-12"	NRCB 88-08	UT60° Shear-Axial UT60° Shear-Circ	✓	-	-	Augmented examination per NRCB 88-08.
22-003 Pipe to Elbow 2CCA-22-12"	B-J B 9.11	UT60° Shear-Axial UT60° Shear-Circ UT60° RLong-Axial	✓	-	-	Augmented examination per NRCB 88-08.
22-004 Valve to Pipe 2CCA-22-12"	B-J B 9.11	UT60° Shear-Axial UT60° Shear-Circ UT60° RLong-Axial	✓	-	-	Augmented examination per NRCB 88-08.
23-001A Elbow to Safe End 2CCA-24-12"	B-J B 9.11	UT60° Shear-Axial UT60° Shear-Circ UT45° RLong-Axial UT45° RLong-Circ UT60° RLong-Axial	✓	-	-	Augmented examination per NRCB 88-08.
23-003 Pipe to Elbow 2CCA-24-12"	B-J B 9.11	UT60° Shear-Axial UT60° Shear-Circ UT60° RLong-Axial	✓	-	-	Augmented examination per NRCB 88-08.
23-004 Elbow to Pipe 2CCA-24-12"	B-J B 9.11	UT60° Shear-Axial UT60° Shear-Circ UT60° RLong-Axial	-	✓	-	Augmented examination per NRCB 88-08.
23-005 Pipe to Elbow 2CCA-24-12"	B-J B 9.11	PT (Initial) PT (Follow-up) UT60° Shear-Axial UT60° Shear-Circ UT60° RLong-Axial	-	-	✓	Augmented examination per NRCB 88-08. Three linear PT indications recorded with lengths of 3/8", 3/4", and 1". Indications (non-serviced induced) caused by insufficient weld preparation. After surface conditioning the weld was reexamined with no recordable indications detected.
23-006 Valve to Pipe 2CCA-24-12"	B-J B 9.11	PT UT60° Shear-Axial UT60° Shear-Circ UT60° RLong-Axial	-	-	✓	Augmented examination per NRCB 88-08. Three linear PT indications recorded with lengths of 5/64" (2) and 1/4" (1). Indications acceptable per IWB- 3514-2.

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CODE CATEGORY B-J

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	G T E O M	O H E R	Remarks
23-007 Pipe to Valve 2CCA-24-12"	B-J B 9.11	PT UT60° Shear-Axial UT60° Shear-Circ UT70° Shear-Axial UT70° Shear-Circ	✓ ✓ ✓ ✓ ✓	- - - - -	- - - - -	
23-008 Tee to Pipe 2CCA-24-12"	B-J B 9.11	PT UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	
23-009 Elbow to Tee 2CCA-24-12"	B-J B 9.11	PT UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	
23-010 Pipe to Elbow 2CCA-24-12"	B-J B 9.11	PT UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓ -	- - - ✓	- - - -	
23-020 Pipe to Tee 2CCA-24-8"	B-J B 9.11	PT UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	
23-023 Pipe to Elbow 2CCA-24-8"	B-J B 9.11	PT UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓ -	- - - ✓	- - - -	
23-024 Elbow to Pipe 2CCA-24-8"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ -	- - ✓	- - -	
23-025 Pipe to Elbow 2CCA-24-8"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ -	- - ✓	- - -	
23-026 Elbow to Pipe 2CCA-24-8"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ -	- - ✓	- - -	

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CODE CATEGORY B-J

Exam No. Component Description Line #/Component Type	ASME Code Category item No.	Exam Method	N O R E C	G T H O M	O T E R	Remarks
23-027 Pipe to Elbow 2CCA-24-8"	B-J B 9.11	UT52° Shear-Axial UT60° RLong-Axial UT60° RLong-Circ	- - ✓	✓ ✓ -	- - -	
23-047 Pipe to Tee 2CCA-24-6"	B-J B 9.11	PT UT60° Shear-Axial UT60° Shear-Circ	✓ ✓ ✓	- - -	- - -	
23-048 Elbow to Pipe 2CCA-24-6"	B-J B 9.11	PT UT60° Shear-Axial UT60° Shear-Circ	- ✓ ✓	- - -	✓ - -	One 3/32" linear PT indication recorded. Indication acceptable per IWB-3514-2.
24-002 Pipe to Safe End 2CCA-23-12"	B-J B 9.11	UT45° Shear-Circ UT60° Shear-Axial UT45° RLong-Axial UT45° RLong-Circ UT60° RLong-Axial	✓ ✓ - ✓ -	- - ✓ - ✓	- - - - -	Augmented examination per NRCB 88-08.
24-003 Elbow to Pipe 2CCA-23-12"	B-J B 9.11	UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓	- - -	- - -	Augmented examination per NRCB 88-08.
24-010 Pipe to Elbow 2CCA-23-12"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	
24-011 Elbow to Pipe 2CCA-23-12"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	
24-012 Pipe to Elbow 2CCA-23-12"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	
24-013 Elbow to Pipe 2CCA-23-12"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	

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ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY B-J

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	G E M	O T H E R	Remarks
			C	M	R	
25-002 Safe End to Pipe 2CCA-25-14"	B-J B 9.11	UT60° Shear-Axial UT60° Shear-Circ UT45° RLong-Axial UT45° RLong-Circ UT60° RLong-Axial	✓ ✓ ✓ ✓ ✓	- - - - -	- - - - -	Augmented examination per NRCB 88-08.
25-003 Pipe to Elbow 2CCA-25-14"	B-J B 9.11	PT UT45° Shear-Axial UT45° Shear-Circ UT60° RLong-Axial	- ✓ ✓ ✓	- - - -	✓ - - -	Augmented examination per NRCB 88-08. Code credit also taken. Six linear PT indications recorded with lengths of 1/16" (5) and 3/32" (1). Indications acceptable per IWB-3514-2.
25-003/004 Elbow Crotch Region 2CCA-25-14"	NRCB 88-08	UT52° Shear-Axial UT52° Shear-Circ	✓ ✓	- -	- -	Augmented examination per NRCB 88-08.
25-004 Elbow to Pipe 2CCA-25-14"	B-J B 9.11	PT UT45° Shear-Axial UT45° Shear-Circ UT60° RLong-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	Augmented examination per NRCB 88-08. Code credit also taken.
25-005 Pipe to Elbow 2CCA-25-14"	B-J B 9.11	UT45° Shear-Axial UT45° Shear-Circ UT60° RLong-Axial	✓ ✓ ✓	- - -	- - -	Augmented examination per NRCB 88-08.
25-005/006 Elbow Crotch Region 2CCA-25-14"	NRCB 88-08	UT52° Shear-Axial UT52° Shear-Circ	✓ ✓	- -	- -	Augmented examination per NRCB 88-08.
25-006 Elbow to Pipe 2CCA-25-14"	B-J B 9.11	UT45° Shear-Axial UT45° Shear-Circ UT60° RLong-Axial	✓ ✓ ✓	- - -	- - -	Augmented examination per NRCB 88-08.
28-023 Pipe to Safe End 2CCA-15-4"	B-J B 9.11	UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial UT60° Shear-Circ UT45° RLong-Axial UT45° RLong-Circ UT60° RLong-Axial RT	✓ ✓ ✓ ✓ ✓ ✓ - -	- - - - - - ✓ -	- - - - - - - -	Examination not scheduled nor performed as part of outage scope. Code credit not taken. RT performed to aid in profiling of the weld (counterbore).

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Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	O G E O M	T H E R	Remarks
			C	M	R	
43-019 Flange to Pipe 2BCA-14-6"	B-J B 9.11	PT UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	
08-012 Elbow Long Seam - Heel Area 2CCA-5-30"	B-J B 9.12	PT UT45° Shear-Axial UT45° Shear-Circ	✓ ✓ ✓	- - -	- - -	Examined one foot of longitudinal seam weld.
08-013 Elbow Long Seam - Throat Area 2CCA-5-30"	B-J B 9.12	PT UT45° Shear-Axial UT45° Shear-Circ	✓ ✓ ✓	- - -	- - -	Examined one foot of longitudinal seam weld.
10-012 Elbow Long Seam - Heel Area 2CCA-3-30"	B-J B 9.12	PT UT45° Shear-Axial UT45° Shear-Circ	✓ ✓ ✓	- - -	- - -	Examined one foot of longitudinal seam weld.
10-013 Elbow Long Seam - Throat Area 2CCA-3-30"	B-J B 9.12	PT UT45° Shear-Axial UT45° Shear-Circ	✓ ✓ ✓	- - -	- - -	Examined one foot of longitudinal seam weld.
23-042 Pipe to Elbow 2CCA-24-3"	B-J B 9.21	PT	✓	-	-	
23-043 Elbow to Pipe 2CCA-24-3"	B-J B 9.21	PT	✓	-	-	
25-024 Pipe to Weldolet 2CCA-25-3"	B-J B 9.21	UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	Augmented examination per NRCB 88-08.
25-025 Elbow to Pipe 2CCA-25-3"	B-J B 9.21	UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓ ✓	- - - -	- - - -	Augmented examination per NRCB 88-08.
25-025/026 Elbow Crotch Region 2CCA-25-3"	NRCB 88-08	UT60° Shear-Axial UT60° Shear-Circ	✓ ✓	- -	- -	Augmented examination per NRCB 88-08.

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CODE CATEGORY B-J

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C M R			O G T E H E R	Remarks
			C	M	R		
25-026 Pipe to Elbow 2CCA-25-3"	B-J B 9.21	PT UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓ ✓ ✓	- - - - -	- - - - -		Augmented examination per NRCB 88-08. Code credit also taken.
25-027 Elbow to Pipe 2CCA-25-3"	B-J B 9.21	PT UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓ ✓ ✓	- - - - -	- - - - -		Augmented examination per NRCB 88-08. Code credit also taken.
25-027/028 Elbow Crotch Region 2CCA-25-3"	NRCB 88-08	UT60° Shear-Axial UT60° Shear-Circ	✓ ✓	- -	- -		Augmented examination per NRCB 88-08.
25-028 Pipe to Elbow 2CCA-25-3"	B-J B 9.21	UT45° Shear-Axial UT45° Shear-Circ UT60° Shear-Axial UT60° RLong-Axial	✓ ✓ ✓ ✓	- - - -	- - - -		Augmented examination per NRCB 88-08.
37-004 Pipe to Elbow 2CCA-12-2"	B-J B 9.21	PT	✓	-	-		
37-005 Elbow to Pipe 2CCA-12-2"	B-J B 9.21	PT	✓	-	-		
37-006 Pipe to Elbow 2CCA-12-2"	B-J B 9.21	PT	✓	-	-		
37-007 Elbow to Pipe 2CCA-12-2"	B-J B 9.21	PT	✓	-	-		
37-008 Pipe to Elbow 2CCA-12-2"	B-J B 9.21	PT	✓	-	-		

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CODE CATEGORY B-J

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	G T H O E M	O T H E R	Remarks
			C	M	R	
37-009 Elbow to Pipe 2CCA-12-2"	B-J B 9.21	PT	✓	-	-	
37-010 Pipe to Elbow 2CCA-12-2"	B-J B 9.21	PT	✓	-	-	
40-002 Pipe to Tee 2CCA-27-2"	B-J B 9.21	PT (Initial) PT (Follow-up)	- ✓	- -	✓ -	Four linear PT indications recorded with lengths of 1/16" (1), 3/32" (2), and 1/8" (1). Indications (non-serviced induced) caused by weld undercut. After surface conditioning the weld was reexamined with no recordable indications detected.
40-003 Tee to Valve 2CCA-27-2"	B-J B 9.21	PT	✓	-	-	
40-005 Valve to Pipe 2CCA-27-2"	B-J B 9.21	PT	-	-	✓	One 1/16" linear PT indication recorded. Indication acceptable per IWB-3514-2.
40-027 Pipe to Tee 2CCA-27-2"	B-J B 9.21	PT	✓	-	-	
40-028 Elbow to Pipe 2CCA-27-2"	B-J B 9.21	PT	✓	-	-	
40-031 Pipe to Valve 2CCA-27-2"	B-J B 9.21	PT (Initial) PT (Follow-up)	- ✓	- -	✓ -	Two linear PT indications recorded with lengths of 3/16" and 5/16". Indications (non-serviced induced) caused by weld undercut. After surface conditioning the weld was reexamined with no recordable indications detected.

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CODE CATEGORY B-J

Exam No. Component Description <u>Line #/Component Type</u>	ASME Code Category <u>Item No.</u>	<u>Exam Method</u>	N	O	<u>Remarks</u>
			O	G	
			R	E	
			E	O	
			C	M	
43-033 Tee to Pipe 2BCA-14-3"	B-J B 9.21	PT	-	-	✓ One 1/16" linear PT indication recorded. Indication acceptable per IWB-3514-2.
43-034 Pipe to Elbow 2BCA-14-3"	B-J B 9.21	PT	✓	-	-
25-004A 3" Branch Connection 2CCA-25-14"	B-J B 9.32	PT	✓	-	-

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CODE CATEGORY B-M-2

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	R
21-074 12" Check Valve 2SI-16B 2CCA-21-12"	B-M-2 B 12.50	VT-3	✓	-	Group 1 Valve.
22-045 12" Check Valve 2SI-15A 2CCA-22-12"	B-M-2 B 12.50	VT-3	✓	-	Examination performed per 1st Inspection Interval requirements. Group 3 Valve.
22-046 12" Check Valve 2SI-16A 2CCA-22-12"	B-M-2 B 12.50	VT-3	✓	-	Group 1 Valve.
22-048 6" Check Valve 2SI-14A 2CCA-22-6"	B-M-2 B 12.50	VT-3	✓	-	Examination performed per 1st Inspection Interval requirements. Group 4 Valve.

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CODE CATEGORY C-A

Exam No.	ASME Code		N	G	O	
Component Description	Category		R	E	T	
Line #/Component Type	Item No.	Exam Method	E	O	E	
			C	M	R	Remarks
03-030	C-A	UT0° DAC	✓	-	-	Code required Axial coverage achieved from the conical shell side with the UT60° scan. The UT60° beam angle (2nd leg) was directed essentially normal to the plane of the examination volume. Per Article 4 of Section V, attaining axial coverage from one direction in this manner is acceptable. Other angle beams were also performed from both sides to the extent possible.
Intermediate to Conical Shell	C 1.10	UT45° Shear-Axial	✓	-	-	
Steam Generator 2E24A		UT45° Shear-Circ	✓	-	-	
		UT60° Shear-Axial	-	✓	-	
		UT70° Shear-Axial	✓	-	-	

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CODE CATEGORY C-A

Exam No.	ASME Code		N	G	O	
Component Description	Category		R	E	T	
Line #/Component Type	Item No.	Exam Method	E	O	E	
			C	M	R	Remarks
03-031	C-A	UT0° DAC	✓	-	-	Examined for Code credit and per Information Notice 90-04. Two UT60° indications were recorded during the performance of the Axial scan. Both indications were rescanned and plotted. One indication was determined to be slag and the other porosity which has existed since fabrication. This was confirmed by review of the original radiographs. No evidence of corrosion-fatigue was detected. Additionally, a representative area of the inner surface of the weld (≈ 1/3rd circumference) was visually inspected. No evidence of pitting and/or cracking was observed. Code required Axial coverage achieved from the conical shell side with the UT60° scan. The UT60° beam angle (1st leg) was directed essentially normal to the plane of the examination volume. Per Article 4 of Section V, attaining axial coverage from one direction in this manner is acceptable. Other angle beams were also performed from both sides to the extent possible. UT0° and UT45°/60° circumferential scanning limited on upper shell side due to proximity of insulation support beams and ring clips.
Conical to Upper Shell	C 1.10	UT45° Shear-Axial	✓	-	-	
Steam Generator 2E24A		UT45° Shear-Circ	✓	-	-	
		UT60° Shear-Axial	-	-	✓	
		UT60° Shear-Circ	✓	-	-	
		UT70° Shear-Axial	✓	-	-	

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CODE CATEGORY C-B

Exam No.	ASME Code		N	O	
Component Description	Category		O	G	T
Line #/Component Type	Item No.	Exam Method	R	E	H
			E	O	E
			C	M	R
					Remarks
03-035	C-B	MT	✓	-	-
Feedwater Nozzle to Upper Shell	C 2.21				
Steam Generator 2E24A					

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CODE CATEGORY C-C

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	R
03-040 Snubber Lug @90° Steam Generator 2E24A	C-C C 3.10	MT	✓	-	-
03-041 Snubber Lug @270° Steam Generator 2E24A	C-C C 3.10	MT	✓	-	-
19-027W Spring Hanger 2DBB-2-H3 2DBB-2-24"	C-C C 3.20	MT	✓	-	- Examination performed per 1st Inspection Interval requirements.
19-040W Spring Hanger 2DBB-2-H14 2DBB-2-24"	C-C C 3.20	MT	✓	-	- Examination performed per 1st Inspection Interval requirements.
59-038W Spring Hanger 2GCB-16-H20 2GCB-16-10"	C-C C 3.20	PT	✓	-	- Examination performed per 1st Inspection Interval requirements.

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CODE CATEGORY C-F-1

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	G E O M	O T H E R	Remarks
			C	M	R	
66-002 Pipe to Elbow 2CCB-6-6"	C-F-1 C 5.11	PT UT60° Shear-Axial UT60° Shear-Circ	✓ ✓ ✓	- - -	- - -	
66-005 Flued Penetration to Elbow 2CCB-6-6"	C-F-1 C 5.11	PT UT60° Shear-Axial UT60° Shear-Circ	✓ ✓ ✓	- - -	- - -	
80-110 Pipe to Reducing Tee 2DCB-3-4"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	No UT60° Axial scan performed for 4.5" of weld length from the tee side due to radius of tee.
80-111 Reducing Tee to Pipe 2DCB-3-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	No UT60° Axial scan performed for 7.0" of weld length from the tee side due to radius of tee.
80-112 Pipe to Elbow 2DCB-3-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	No UT60° Axial scan performed for 3.25" of weld length from the elbow side due to inside radius of elbow.
80-115 Elbow to Elbow 2DCB-3-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	No UT60° Axial scan performed for 3.30" and 2.90" of weld length from the upstream and downstream sides respectively, due to inside radius of elbows.
80-123 Reducing Tee to Reducer 2DCB-3-4"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	No UT60° Axial scan performed for 4.40" of weld length from the tee side due to radius of tee.
80-196 Pipe to Elbow 2DCB-1-4"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	
81-063 Elbow to Pipe 2CCB-12-4"	C-F-1 C 5.21	PT UT60° Shear-Axial UT60° Shear-Circ	✓ ✓ ✓	- - -	- - -	No UT60° Axial scan performed for 4.40" of weld length from the elbow side due to inside radius of elbow.

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CODE CATEGORY C-F-1

Exam No. Component Description <u>Line /Component Type</u>	ASME Code Category <u>Item No.</u>	<u>Exam Method</u>	N O R E E C			<u>Remarks</u>
			O G E M	T H E R		
81-064 Pipe to Reducing Tee 2CCB-12-4"	C-F-1 C 5.11	PT UT60° Shear-Axial UT60° Shear-Circ	✓ ✓ ✓	- - -	- - -	No UT60° Axial scan performed for 4.40" of weld length from the tee side due to radius of tee.
82-003 Pipe to Penetration 2CCB-7-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT52° Shear-Axial	✓ ✓ ✓	- - -	- - -	
82-014 Pipe to Elbow 2CCB-7-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT52° Shear-Axial	- ✓ ✓	- - -	/ - -	One 3/32" linear PT indication recorded. Indication acceptable per IWB-3514-2. No UT52° Axial scan performed for 3.80" of weld length from the elbow side due to inside radius of elbow.
83-003 Elbow to Pipe 2CCB-15-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	
83-006 Pipe to Elbow 2CCB-15-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	
83-007 Penetration to Pipe 2CCB-15-3"	C-F-1 C 5.21	PT UT45° Shear-Circ UT60° Shear-Axial	✓ ✓ ✓	- - -	- - -	
80-384 Elbow to Pipe 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	
80-386 Valve to Pipe 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	
80-389 Pipe to Elbow 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	
80-390 Tee to Pipe 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL / 1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY C-F-1

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
Line #/Component Type	Item No.	Exam Method	R	E	H	
			E	O	E	
			C	M	R	Remarks
90-394 Pipe to Elbow 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	
80-396 Pipe to Valve 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	
80-398 Pipe to Elbow 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	
80-400 Pipe to Tee 2DCB-511-2"	C-F-1 C 5.30	PT	✓	-	-	
80-535 Pipe to Valve 2DCB-501-2"	C-F-1 C 5.30	PT	✓	-	-	
80-536 Flange to Pipe 2DCB-501-2"	C-F-1 C 5.30	PT	✓	-	-	
80-539 Pipe to Elbow 2DCB-501-2"	C-F-1 C 5.30	PT	✓	-	-	
80-540 Elbow to Pipe 2DCB-501-2"	C-F-1 C 5.30	PT	✓	-	-	
82-019 Pipe to Valve 2CCB-7-2"	C-F-1 C 5.30	PT (Initial) PT (Follow-up)	- ✓	- -	✓ -	Existing examination area had evidence of smeared metal (non-serviced induced) from insufficient weld preparation. After surface conditioning the weld was reexamined with no recordable indications detected.

ARKANSAS NUCLEAR ONE - UNIT 2
 REFUELING OUTAGE No. 8 (2R8)
 2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY C-F-1

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
<u>Line #/Component Type</u>	<u>Item No.</u>	<u>Exam Method</u>	R	E	H	
			E	O	E	
			C	M	R	<u>Remarks</u>
80-197	C-F-1	PT	✓	-	-	
2" Branch Connection	C 5.41					
2DCB-1-4"						

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY C-F-2

Exam No. Component Description <u>Line #/Component Type</u>	ASME Code Category <u>Item No.</u>	<u>Exam Method</u>	N	O	<u>Remarks</u>
			O	G	
			R	E	
			E	O	
			C	M	
17-001	C-F-2	MT	✓	-	-
Transition Piece to SG Nozzle	C 5.51	UT45° Shear-Axial	✓	-	-
2DBB-1-18"					
17-004	C-F-2	MT	✓	-	-
Pipe to Reducing Elbow	C 5.51	UT45° Shear-Axial	✓	-	-
2DBB-1-24"					
17-024	C-F-2	MT	✓	-	-
Pipe to Elbow	C 5.51	UT45° Shear-Axial	✓	-	-
2DBB-1-24"					
62-003	C-F-2	MT	✓	-	-
Elbow to Pipe	C 5.51	UT45° Shear-Axial	✓	-	-
2DBB-1-24"					
63-022	C-F-2	MT (Initial)	-	-	✓
Tee to Pipe	C 5.51	MT (Follow-up)	✓	-	-
2EBB-8-10"		UT45° Shear-Axial	-	✓	-
		UT60° Shear-Axial	✓	-	-
One 15/32" linear MT indication recorded. Indication (non-serviced induced) caused by handling of piping during fabrication process. Similar surface abrasions visually observed on surrounding piping. After surface conditioning the weld was reexamined with no recordable indications detected.					

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No. Component Description <u>Line #/Component Type</u>	ASME Code Category <u>Item No.</u>	<u>Exam Method</u>	N O R E C G E O M T R Y			<u>Remarks</u>
			C	M	R	
16-017 Snubber 2BCA-1-H2 2BCA-1-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
16-018 Snubber 2BCA-1-H3 2BCA-1-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
21-057 Snubber 2CCA-21-H12 2CCA-21-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
21-058 Snubber 2CCA-21-H18 2CCA-21-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
21-061 Snubber 2CCA-21-H10 2CCA-21-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
21-063 Snubber 2CCA-21-H17 2CCA-21-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
21-067 Snubber 2CCA-21-H15 2CCA-21-8"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
21-068 Snubber 2CCA-21-H19 2CCA-21-8"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
21-072 Snubber 2CCA-21-H16 2CCA-21-8"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
22-050 Snubber 2CCA-22-H22 2CCA-22-12"	10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O G T R E H E O E C M R			Remarks
22-052 Snubber 2CCA-22-H21 2CCA-22-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
22-055 Snubber 2CCA-22-H19 2CCA-22-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
22-056 Snubber 2CCA-22-H18 2CCA-22-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
22-057 Snubber 2CCA-22-H17 2CCA-22-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
22-060 Snubber 2CCA-22-H15 2CCA-22-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
22-062 Snubber 2CCA-22-H14 2CCA-22-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
22-064 Snubber 2CCA-22-H13 2CCA-22-8"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
23-059 Snubber 2CCA-24-H15 2CCA-24-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
23-061 Snubber 2CCA-24-H17 2CCA-24-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
23-063 Snubber 2CCA-24-H19 2CCA-24-12"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	
23-075 Snubber 2CCA-24-H27 2CCA-24-8"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
23-076 Snubber 2CCA-24-H24 2CCA-24-8"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
24-067 Snubber 2CCA-23-H11 2CCA-23-12"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
24-074 Snubber 2CCA-23-H26 2CCA-23-12"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
24-075 Snubber 2CCA-23-H27 2CCA-23-12"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
24-077 Snubber 2CCA-23-H18 2CCA-23-8"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
24-079 Snubber 2CCA-23-H28 2CCA-23-8"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
24-080 Snubber 2CCA-23-H21 2CCA-23-8"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
24-084 Snubber 2CCA-23-H23 2CCA-23-8"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
25-074 Snubber 2CCA-25-H3 2BCA-25-14"	F-A F 1.10F	VT-3	✓	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N C R E C	O G E O M	T H E R	Remarks
25-075 Snubber 2CCA-25-H4 2CCA-25-14"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
25-077 Snubber 2CCA-25-H5 2CCA-25-14"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
25-079 Snubber 2CCA-25-H6 2CCA-25-8"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
25-082 Snubber 2CCA-25-H10 2CCA-25-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
25-084 Snubber 2CCA-25-H14 2CCA-25-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
25-088 Snubber 2CCA-25-H13 2CCA-25-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-024 Snubber 2CCA-14-H2 2CCA-14-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-028 Snubber 2CCA-15-H9 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-030 Snubber 2CCA-15-H27 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-031 Snubber 2CCA-15-H26 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

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REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	G T H O M	O T H E R	Remarks
26-053 Snubber 2CCA-14-H5 2CCA-14-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-054 Snubber 2CCA-15-H45 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-055 Snubber 2CCA-15-H44 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-060 Snubber 2CCA-15-H41 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
26-062 Snubber 2CCA-15-H39 2CCA-15-3"	F-A F 1.10F	VT-3 (Initial) VT-3 (Follow-up)	- ✓	- -	✓ -	Inspection performed per Snubber Program requirements. Finding ⇒ Load pin installed in pipe clamp instead of load stud. Action Taken ⇒ Pipe clamp load pin replaced with load stud.
27-030 Snubber 2CCA-13-H4 2CCA-13-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
27-034 Snubber 2CCA-15-H24 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
27-067 Snubber 2CCA-15-H60 2CCA-15-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
27-074 Snubber 2CCA 15-H56 2CCA-15-3"	F-A F 1.10F	VT-3 (Initial) VT-3 (Follow-up)	- ✓	- -	✓ -	Inspection performed per Snubber Program requirements. Finding ⇒ Load pin installed in pipe clamp instead of load stud. Action Taken ⇒ Pipe clamp load pin replaced with load stud.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O T R E H E O E C M R			Remarks
27-076 Snubber 2CCA-15-H53 2CCA-15-3"	F-A F 1.10F	VT-3 (Initial) VT-3 (Follow-up)	-	-	✓	Inspection performed per Snubber Program requirements. Finding = Load pin installed in pipe clamp instead of load stud. Action Taken = Pipe clamp load pin replaced with load stud.
27-078 Snubber 2CCA-15-H50 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
27-081 Snubber 2CCA-15-H48 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
28-036 Snubber 2CCA-15-H29 2CCA-15-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
28-037 Snubber 2CCA-15-H30 2CCA-15-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
28-054 Snubber 2CCA-15-H31 2CCA-15-4"	F-A F 1.10F	VT-3 (Initial) VT-3 (Follow-up)	-	-	✓	Inspection performed per Snubber Program requirements. Finding = Load pin installed in pipe clamp instead of load stud. Action Taken = Pipe clamp load pin replaced with load stud.
28-056 Snubber 2CCA-15-H34 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
28-058 Snubber 2CCA-15-H36 2CCA-15-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
29-029 Snubber 2CCA-16-H19 2CCA-16-2"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
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ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C	G E M	O T H E R	Remarks
29-036 Snubber 2CCA-16-H3 2CCA-16-2"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
29-038 Snubber 2CCA-16-H4 2CCA-16-2"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
29-062 Snubber 2CCA-16-H21 2BCA-16-2"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
29-064 Snubber 2CCA-16-H16 2CCA-16-2"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
29-068 Snubber 2CCA-16-H12 2CCA-16-2"	F-A F 1.10F	VT-3 (Initial) VT-3 (Follow-up)	- ✓	- -	✓ -	Inspection performed per Snubber Program requirements. Finding = Load pin installed in pipe clamp instead of load stud. Action Taken = Pipe clamp load pin replaced with load stud.
35-019 Snubber 2CCA-32-H2 2CCA-32-2"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
41-045 Snubber 2CCA-26-H2 2CCA-26-2"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
43-041 Snubber 2BCA-14-H7 2BCA-14-3"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
43-044 Snubber 2BCA-14-H14 2BCA-14-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
43-046 Snubber 2BCA-14-H3 2BCA-14-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 1)

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
Line #/Component Type	Item No.	Exam Method	R	E	H	
			E	O	E	
			C	M	R	Remarks
43-047 Snubber 2BCA-14-H5 2BCA-14-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
43-049 Snubber 2BCA-14-H13 2BCA-14-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
43-050 Snubber 2BCA-14-H12 2BCA-14-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
43-051 Snubber 2BCA-14-H15 2BCA-14-4"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
43-054 Snubber 2BCA-14-H1 2BCA-14-6"	F-A F 1.10F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

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REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 2)

Exam No.	ASME Code		N	O	
Component Description	Category		O	G	T
Line #/Component Type	Item No.	Exam Method	R	E	H
			E	O	E
			C	M	R
					Remarks
30-019	F-A	VT-3	✓	-	-
Guide Hanger 2GCB-5-H16	F 1.20B				Inspection performed per 1st
2GCB-5-14"					Inspection Interval requirements.
17-027	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H3	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-028	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H2	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-029	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H4	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-030	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H6	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-031	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H17	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-033	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H9	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-034	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H8	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-035	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H10	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.
17-037	F-A	VT-3	✓	-	-
Snubber 2DBB-1-H13	F 1.20F				Inspection performed per
2DBB-1-24"					Snubber Program requirements.

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2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 2)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O G T R E H E O E C M R			Remarks
17-038 Snubber 2DBB-1-H12 2DBB-1-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
17-039 Snubber 2DBB-1-H14 2DBB-1-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
18-020 Snubber 2EBB-1A-H5 2EBB-1-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
18-021 Snubber 2EBB-1A-H4 2EBB-1-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
18-023 Snubber 2EBB-1A-H7 2EBB-1-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
18-024 Snubber 2EBB-1A-H6 2EBB-1-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
19-028 Snubber 2DBB-2-H2 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
19-029 Snubber 2DBB-2-H16 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
19-032 Snubber 2DEB-2-H19 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
19-033 Snubber 2DBB-2-H8 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 2)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N O R E C O M P O S I T I O N S			Remarks
			C	M	R	
19-034 Snubber 2DBB-2-H17 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
19-037 Snubber 2DBB-2-H11 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
19-039 Snubber 2DBB-2-H13 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
19-041 Snubber 2DBB-2-H15 2DBB-2-24"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
20-018 Snubber 2EBB-2A-H4 2EBB-2-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
20-019 Snubber 2EBB-2A-H5 2EBB-2-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
20-021 Snubber 2EBB-2A-H6 2EBB-2-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
20-022 Snubber 2EBB-2A-H7 2EBB-2-38"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
30-018 Snubber 2GCB-5-H21 2GCB-5-14"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
50-022 Snubber 2GCB-5-H23 2GCB-5-14"	F-A F 1.20F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 2)

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
Line #/Component Type	Item No.	Exam Method	R	E	H	
			E	O	E	
			C	M	R	Remarks
52-040	F-A	VT-3 (Initial)	-	-	✓	Inspection performed per Snubber Program requirements. Finding = Pipe clamp in bind due to over-torquing of the bolts and clamp not being equalized. Action Taken = Corrected over-torquing of the bolts and equalized clamp spacing.
Snubber 2GCB-5-H31 2GCB-5-14"	F 1.20F	VT-3 (Follow-up)	✓	-	-	
52-042	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2GCB-2-H3 2GCB-2-14"	F 1.20F					
57-025	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2GCB-3-H22 2GCB-2-12"	F 1.20F					
58-028A	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2GCB-3-H24 2GCB-3-12"	F 1.20F					
61-045	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2CCB-4-H2 2CCB-4-6"	F 1.20F					
63-038	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2EBB-1-H4 2EBB-1-38"	F 1.20F					
63-041	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2EBB-8-H2 2EBB-8-10"	F 1.20F					
65-035	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2EBB-2-H4 2EBB-2-38"	F 1.20F					
65-037	F-A	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
Snubber 2EBB-2-H6 2EBB-2-38"	F 1.20F					

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 2)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			O	G	
			R	E	
			E	O	
			C	M	R
65-038 Snubber 2EBB-2-H5 2EBB-2-38"	F-A F 1.20F	VT-3 (Initial) VT-3 (Follow-up)	- ✓	- -	✓ -
					Inspection performed per Snubber Program requirements. Finding → Bracing rusty on pipe clamp end. Action Taken → Lubricated bearing and removed rust.
75-041 Snubber 2GCB-10-H5 2GCB-10-12"	F-A F 1.20F	VT-3	✓	-	-
					Inspection performed per Snubber Program requirements.
76-046 Snubber 2GCB-11-H5 2GCB-11-12"	F-A F 1.20F	VT-3	✓	-	-
					Inspection performed per Snubber Program requirements.
78-061 Snubber 2HCB-15-H15 2HCB-15-14"	F-A F 1.20F	VT-3	✓	-	-
					Inspection performed per Snubber Program requirements.
79-071 Snubber 2HCB-27-H7 2HCB-27-20"	F-A F 1.20F	VT-3	✓	-	-
					Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 3)

Exam No.	ASME Code		N	O		
Component Description	Category		O	G	T	
Line #/Component Type	Item No.	Exam Method	R	E	H	
			E	O	E	
			C	M	R	Remarks
72-039 Guide Hanger 2HBC-33-H4 2HBC-33-20"	F-A F 1.30B	VT-3	-	-	✓	Inspection performed per 1st Inspection Interval requirements. Finding ⇒ Baseplate and bolting corroded. Action Taken ⇒ Engineering evaluation performed discovered only limited surface corrosion. Support considered operable and acceptable "as is" at current time with long-term corrective action considering painting of the support.
73-059 Rigid Hanger 2HBC-81-H4 2HBC-81-12"	F-A F 1.30E	VT-3	✓	-	-	Inspection performed per 1st Inspection Interval requirements.
72-134 Snubber 2HBC-103-H22 2HBC-103-12"	F-A F 1.30F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
72-136 Snubber 2HBC-103-H18 2HBC-103-12"	F-A F 1.30F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
72-137 Snubber 2HBC-103-H20 2HBC-103-12"	F-A F 1.30F	VT-3 (Initial) VT-3 (Follow-up)	- ✓	- -	✓ -	Inspection performed per Snubber Program requirements. Finding ⇒ Pipe clamp bolting loose. Action Taken ⇒ Tightened pipe clamp bolting
72-138 Snubber 2HBC-103-H17 2HBC-103-12"	F-A F 1.30F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.
72-153 Snubber 2HBC-105-H4 2HBC-105-12"	F-A F 1.30F	VT-3	✓	-	-	Inspection performed per Snubber Program requirements.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

CODE CATEGORY F-A (Class 3)

Exam No. Component Description Line #/Component Type	ASME Code Category Item No.	Exam Method	N	O	Remarks
			C	G	
			R	E	
			E	O	
			C	M	
72-159 Snubber 2HBC-105-H14 2HBC-105-12"	F-A F 1.30F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
72-161 Snubber 2HBC-105-H17 2HBC-105-12"	F-A F 1.30F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
72-162 Snubber 2HBC-105-H16 2HBC-105-12"	F-A F 1.30F	VT-3	✓	-	Inspection performed per Snubber Program requirements.
72-163 Snubber 2HBC-105-H18 2HBC-105-12"	F-A F 1.30F	VT-3 (Initial) VT-3 (Follow-up)	- ✓	- -	Inspection performed per Snubber Program requirements. Finding = Pipe clamp bolting loose. Action taken = Tightened pipe clamp bolting.

ARKANSAS NUCLEAR ONE - UNIT 2
REFUELING OUTAGE No. 8 (2R8)
2nd INSPECTION INTERVAL/1st INSPECTION PERIOD
ISI COMPONENT EXAMINATION SUMMARY

REGULATORY GUIDE 1.14

Exam No.	ASME Code		N	O	
Component Description	Category		O	G	T
Line #/Component Type	Item No.	Exam Method	R	E	H
			E	O	E
			C	M	R
					Remarks
31-008	RG	UT0 ⁺ DAC	✓	-	-
Flywheel - Bore & Keyway	1.14	UT45 ⁺ Shear	✓	-	-
Reactor Coolant Pump 2P32B					
31-009	RG	ET	✓	-	-
Flywheel - Entire Surface Area	1.14	UT0 ⁺ DAC	✓	-	-
Reactor Coolant Pump 2P32B		UT45 ⁺ Shear	✓	-	-
32-008	RG	UT0 ⁺ DAC	✓	-	-
Flywheel - Bore & Keyway	1.14	UT45 ⁺ Shear	✓	-	-
Reactor Coolant Pump 2P32A					
32-009	RG	ET	✓	-	-
Flywheel - Entire Surface Area	1.14	UT0 ⁺ DAC	✓	-	-
Reactor Coolant Pump 2P32A		UT45 ⁺ Shear	✓	-	-
33-008	RG	UT0 ⁺ DAC	✓	-	-
Flywheel - Bore & Keyway	1.14	UT45 ⁺ Shear	✓	-	-
Reactor Coolant Pump 2P32C					
33-009	RG	ET	✓	-	-
Flywheel - Entire Surface Area	1.14	UT0 ⁺ DAC	✓	-	-
Reactor Coolant Pump 2P32C		UT45 ⁺ Shear	✓	-	-
34-008	RG	UT0 ⁺ DAC	✓	-	-
Flywheel - Bore & Keyway	1.14	UT45 ⁺ Shear	✓	-	-
Reactor Coolant Pump 2P32D					
34-009	RG	ET	✓	-	-
Flywheel - Entire Surface Area	1.14	UT0 ⁺ DAC	✓	-	-
Reactor Coolant Pump 2P32D		UT45 ⁺ Shear	✓	-	-

ATTACHMENT 3

FORMS NIS-2

OWNER'S REPORT FOR REPAIRS

OR REPLACEMENTS

ABSTRACT

Repair and Replacements were conducted during the eighth operating cycle concluding with the eighth refueling outage (2R8) in accordance with the ASME Code, Section XI, 1986 Edition with no Addenda.

Arkwright Mutual Insurance Company (Factory Mutual Systems) served as the Authorized Inspection Agency as defined in ASME Section XI, IWA-2120, reviewing applicable procedures, witnessing examinations and checking for general Code compliance as specified in IWA-2110, of the applicable edition and addenda of the Code.

The "Summary and Conclusions" section provides a summary of the results for repairs and replacements for 2R8 on the Form NIS-2.

Refueling outage 2R8 is the first outage of the first period of the second 10-year interval. This report covers repairs/replacements performed between November 20, 1989, and April 20, 1991.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

<u>DATE</u>	<u>COMPONENT</u>
08/06/90	2SV-4669-1
10/26/90	2SV-8261-2
02/28/91-04/02/91	SNUBBERS
03/02/91	2SV-5024
03/02/91	2SV-5021-2
03/04/91	2SI-15A
03/04/91	2SI-15C
03/04/91	2SV-5041-2
03/04/91	2SV-5004
03/12/91	2SV-4668-2
03/12/91	2SV-4670-2
03/15/91	2SV-8275-1
03/15/91	2CV-4821-1
03/19/91	2CVC-1B
03/19/91	2SV-5061-2
03/19/91	2CVC-2B
03/19/91	2SV-4632
03/19/91	2SV-5064
03/20/91	2SV-8263-2
03/20/91	2SV-8265-1
03/21/91	2CVC-1B
03/21/91	2SV-5833-1
03/23/91	2SV-5046
03/23/91	2SV-5026
03/23/91	2SV-5006
03/30/91	2CVC-78
04/01/91	2SV-5066
04/02/91	2CV-4698-1
04/04/91	2E-24B
04/04/91	2CVC-78
04/05/91	2SV-0205
04/10/91	2SV-8265-1
04/13/91	2SV-5044
04/15/91	2SI-15C
04/15/91	PIPING 2CCA-24-12"
04/16/91	2SI-15A
04/16/91	2SI-15A

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 8-6-90
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 60810869
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM High Point Vent
5. (a) APPLICABLE CONSTRUCTION CODE III 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Valve	Target	51	NA	25U-4669-1	1985	Repaired	Yes

7. DESCRIPTION OF WORK Removed seal weld and re-seal welded after repair
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/18, 19 91Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions

FACTORY MUTUAL SYSTEMS
NB-9947, ARK-II33 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date April 22, 19 91

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 10-26-90
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00825200
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Hydrogen Purge (24CB-164-2)
5. (a) APPLICABLE CONSTRUCTION CODE TLL 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Targitlock</u>	<u>2</u>	<u>NA</u>	<u>2SV-8261-2</u>	<u>1977</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A

Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/18, 1991

Owner or Owner's Designee, Title
 R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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
NORWOOD, MASS. and employed by ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
 Owner's Report during the period 11-20-89 to 4-20-91
 and state that to the best of my knowledge and belief, the Owner has performed
 examinations and taken corrective measures described in this Owner's Report in
 accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
 warranty, expressed or implied, concerning the examinations and corrective measures
 described in this Owner's 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.

J. O. Elliott
 Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-1133 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date April 22, 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 2-28-91 thru 4-2-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 3
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 DCP 86-2116D and DCP 90-2004
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Reactor Coolant and Main Steam
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Component Support</u>	<u>PSA</u>	<u>4794</u>	<u>NA</u>	<u>2BCA-14-H1</u>	<u>UNK.</u>	<u>Replaced</u>	<u>No</u>
<u>Component Support</u>	<u>PSA</u>	<u>10737</u>	<u>NA</u>	<u>2BCA-14-H1</u>	<u>1991</u>	<u>Replacement</u>	<u>No</u>
<u>Component Support</u>	<u>PSA</u>	<u>13692</u>	<u>NA</u>	<u>2CCA-13-H4</u>	<u>UNK.</u>	<u>Replaced</u>	<u>No</u>
<u>Component Support</u>	<u>PSA</u>	<u>12885</u>	<u>NA</u>	<u>2CCA-15-H4</u>	<u>1991</u>	<u>Replacement</u>	<u>No</u>
<u>Component Support</u>	<u>PSA</u>	<u>12767</u>	<u>NA</u>	<u>2CCA-15-H24</u>	<u>UNK.</u>	<u>Replaced</u>	<u>No</u>

7. DESCRIPTION OF WORK _____
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code & Bol Stamp

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

R. D. Lane

Date

Aug 251991

Owner or Owner's Designee, Title

R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. ofNORWOOD, MASS.

have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

FACTORY MUTUAL SYSTEMS

Commissions

NB-9947, ARK-1133 "N" "I"

Inspector's Signature

National Board, State, Province, and Endorsements

J. O. Elliott

Date

May 281991

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Component Support	PSA	10745	NA	2CCA-15-H24	1991	Replacement	No
Component Support	PSA	209	NA	2CCA-21-H16(B)	Unk.	Replaced	No
Component Support	PSA	13998	NA	2CCA-21-H16(A)	1991	Replacement	No
Component Support	PSA	239	NA	2CCA-21-H15	Unk.	Replaced	No
Component Support	PSA	5659	NA	2CCA-21-H15	1991	Replacement	No
Component Support	PSA	354	NA	2CCA-22-H14	Unk.	Replaced	No
Component Support	PSA	2729	NA	2CCA-22-H14	1991	Replacement	No
Component Support	PSA	221	NA	2CCA-23-H11	Unk.	Replaced	No
Component Support	PSA	5058	NA	2CCA-23-H11	1991	Replacement	No
Component Support	PSA	104	NA	2CCA-23-H21	Unk.	Replaced	No
Component Support	PSA	10719	NA	2CCA-23-H21	1991	Replacement	No
Component Support	PSA	334	NA	2CCA-23-H28	Unk.	Replaced	No
Component Support	PSA	5052	NA	2CCA-23-H28	1991	Replacement	No
Component Support	PSA	335	NA	2CCA-24-H15	Unk.	Replaced	No
Component Support	PSA	5051	NA	2CCA-24-H15	1991	Replacement	No
Component Support	PSA	202	NA	2CCA-25-H13	Unk.	Replaced	No
Component Support	PSA	12123	NA	2CCA-25-H13	1991	Replacement	No
Component Support	PSA	13690	NA	2CCA-25-H14	Unk.	Replaced	No
Component Support	PSA	10004	NA	2CCA-25-H14	1991	Replacement	No
Component Support	AD	872	NA	2EBB-16-H5	Unk.	Replaced	No
Component Support	AD	874	NA	2EBB-16-H5	1991	Replacement	No
Component Support	PSA	551	NA	2HCB-4-H179	Unk.	Replaced	No
Component Support	PSA	26160	NA	2HCB-4-H179	1991	Replacement	No
Component Support	AD	586	NA	2VTS-4-H1	Unk.	Replaced	No
Component Support	AD	716	NA	2VTS-4-H1	1991	Replacement	No

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Component Support	P-M	1819(18)	NA	2-HS-RCPDE	1991	Replaced	No
Component Support	P-M	1816(15)	NA	2-HS-RCPDE	1991	Replacement	No
Component Support	P-M	1815(14)	NA	2HS-RCPDW	1991	Replaced	No
Component Support	P-M	1819(18)	NA	2HS-RCPDW	1991	Replacement	No
Component Support	PSA	1851	NA	2EBD-3-H9	1991	Replaced	No
Component Support	PSA	12774	NA	2EBD-3-H9	1991	Replacement	No
Component Support	PSA	112	NA	2EBD-4-H10	1991	Replaced	No
Component Support	PSA	30677	NA	2EBD-4-H10	1991	Replacement	No
Component Support	AD	14	NA	2CCA-15-H45	1991	Replaced	No
Component Support	AD	1406	NA	2CCA-15-H45	1991	Replacement	No
Component Support	AD	5	NA	2CCA-15-H48	1991	Replaced	No
Component Support	AD	1407	NA	2CCA-15-H48	1991	Replacement	No
Component Support	AD	417	NA	2CCA-15-H53	1991	Replaced	No
Component Support	AD	1006	NA	2CCA-15-H53	1991	Replacement	No
Component Support	AD	7	NA	2CCA-15-H60	1991	Replaced	No
Component Support	AD	415	NA	2CCA-15-H60	1991	Replacement	No
Component Support	AD	4	NA	2CCA-16-11	1991	Replaced	No
Component Support	AD	26	NA	DETAIL-A	1991	Replacement	No
Component Support	AD	17	NA	2CCA-47-1	1991	Replaced	No
Component Support	AD	416	NA	DETAIL-A	1991	Replacement	No

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENTERGY OPERATIONS, INC. DATE 3-2-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 I.O. # 00819773
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENTERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Wegert</u>	<u>1</u>	<u>NA</u>	<u>2SK-5024</u>	<u>E 1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/AApplicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/A

Signed

Date

4/1619 91

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
 Owner's Report during the period 11-20-89 to 4-16-91
 and state that to the best of my knowledge and belief, the Owner has performed
 examinations and taken corrective measures described in this Owner's Report in
 accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
 warranty, expressed or implied, concerning the examinations and corrective measures
 described in this Owner's 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.

J. O. Elliott
 Inspector's Signature

Commissions

FACTORY MUTUAL SYSTEMS
NB-9947, ARK-1133 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date

April 1619 91

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-2-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00819744
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Fisher</u>	<u>1</u>	<u>NA</u>	<u>2SV-5021-1</u>	<u>1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A

Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
 R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
 Inspector's Signature NB-9947, ARK-II133 "N" "I"
 Date April 16 1991 National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENTERGY OPERATIONS, INC. DATE 3/4/91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 I.O.#00836617
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENTERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137 G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 1971 EDITION, N/A ADDENDA,
N/A CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Check Valve</u>	<u>Atwood & Merrill</u>	<u>3-626</u>	<u>NH</u>	<u>2SI-15A</u>	<u>E</u> <u>1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Welded bar stock in bottom of valve drain pipe.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☒
OTHER ☐ PRESSURE 1000 psi TEST TEMP. 150 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed R. D. Lane Date 4/20/91 June 19, 1991
Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-I133 "N" "I"
National Board, State, Province, and Endorsements

J. O. Elliott
Date June 19 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-4-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 J.O. # 00836618
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
CODE CASE NA
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Valve	Atwood Marshall Co.	Not available	NA	25I-15C	NA	Repaired	Yes

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A

Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Donald B. Lane Date May 23, 1991
Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-I133 "N" "I"
Date May 28, 1991
National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-4-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.# 00818705
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target</u>	<u>4</u>	<u>NA</u>	<u>2SV-5041-2</u>	<u>1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Inspector's Signature J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-II33 "N" "I"
National Board, State, Province, and Endorsements

Date April 16, 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-4-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00819772
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Wegert</u>	<u>2</u>	<u>NA</u>	<u>ZSV-5004</u>	<u>1981</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A

Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
 R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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
NORWOOD, MASS. and employed by ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
 Owner's Report during the period 11-20-89 to 4-16-91
 and state that to the best of my knowledge and belief, the Owner has performed
 examinations and taken corrective measures described in this Owner's Report in
 accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
 warranty, expressed or implied, concerning the examinations and corrective measures
 described in this Owner's 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.

J. O. Elliott
 Inspector's Signature

Commissions NB-9947, ARK-I133 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date April 16, 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-12-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 I.O. # 00817496
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Reactor Coolant System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Valve	Yarjet Rock	20	NA	25V-4668-2	1980	Repaired	Yes

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
E. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-II33 "N" "I"

Date April 16, 1991

National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-12-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00817500
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Reactor Coolant System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Valve	Targit Block	42	NA	2SV-4670-2	E 1981	Repaired	Yes

7. DESCRIPTION OF WORK Removed and re-weld body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/A

Signed

Date

4/16, 1991Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARK/MSAS and employed by *ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions

*FACTORY MUTUAL SYSTEMS
NB-9947, ARK-1133 "N" "I"
National Board, State, Province, and Endorsements

J. O. Elliott

Date

April 161991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-15-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 T.O.# 00784465
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Hydrogen Purge (HPA)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Globe Valve</u>	<u>Garret Rock</u>	<u>UNK.</u>	<u>NA</u>	<u>2SV-827E-1</u>	<u>E</u> <u>1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and rewelded body to bonnet seal weld.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☒
OTHER ☐ PRESSURE 25 psi TEST TEMP. 170 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] for Date June 18, 1991
Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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]
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-I133 "N" "I"

J. O. Elliott

Date June 19, 1991

National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-15-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00834937
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Chemical + Volume Control System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Borg-Warner</u>	<u>4219</u>	<u>NA</u>	<u>2CV-4821-1</u>	<u>1989</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Arnold B. Ornel for Date May 23, 1991
Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-1133 "N" "I"
Date May 28 1991
National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-19-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00812403
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Chemical & Volume Control System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Argo-Warner</u>	<u>949</u>	<u>NA</u>	<u>2CVC-1B</u>	<u>E 1971</u>	<u>Pyramid</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/16, 19 91

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions

FACTORY MUTUAL SYSTEMS
NB-9947, ARK-1133 "N" "I"

National Board, State, Province, and Endorsement's

J. O. Elliott

Date April 16, 19 91

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-19-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00819729
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE TII 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target</u>	<u>3</u>	<u>NA</u>	<u>2SV-5061-2</u>	<u>1980</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Re-sealwelded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/16, 19 91Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Inspector's Signature J. O. Elliott Commissions "FACTORY MUTUAL SYSTEMS"
NB-9947, ARK-II133 "N" "I"
National Board, State, Province, and EndorsementsJ. O. Elliott
Date April 16, 19 91

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-19-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00812403
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Chemical & Volume Control System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Garg-Warner</u>	<u>unk.</u>	<u>NA</u>	<u>ZCVC-2B</u>	<u>E 1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager-Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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J. O. Elliott
Inspector's Signature

Commissions NB-9947, ARK-I133 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date April 16, 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-19-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.C. #00824676
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Reactor Coolant System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CAST
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Yarjet</u>	<u>Unk</u>	<u>NA</u>	<u>2SV-4632</u>	<u>E 1981</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Remove and re-seal weld body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and take corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-I133 "N" "I"

J. O. Elliott
Date April 16, 1991

National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-19-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00819776
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target Rock</u>	<u>3</u>	<u>NA</u>	<u>2SV-5064</u>	<u>E</u> <u>1980</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Remove and re-seal weld body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPL. 2

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

signed [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
Owner's Report during the period 11-20-89 to 4-16-91
and state that to the best of my knowledge and belief, the Owner has performed
examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
warranty, expressed or implied, concerning the examinations and corrective measures
described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-1133 "N" "I"
Date April 16 1991
National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 20-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 I.O. #00838442
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Hydrogen Purge System (2HCB-165-2)
5. (a) APPLICABLE CONSTRUCTION CODE III 1970 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Valve	Target	2	NA	2SV-8263-2	1976	Repaired	Yes

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/18, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 *ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions *FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-I133 "N" "I"
Date April 22, 1991 National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-20-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 I.O. # 00838443
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Hydrogen Purge System (2HCB-165-2)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target Rock</u>	<u>2</u>	<u>NA</u>	<u>25V-8265-1</u>	<u>1976</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed seal weld and re-seal welded body to bonnet.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/18, 19 91

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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
NORWOOD, MASS. and employed by ARKWRIGHT MUTUAL INSURANCE CO. of
have inspected the components described in this
Owner's Report during the period 11-20-89 to 4-20-91
and state that to the best of my knowledge and belief, the Owner has performed
examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
warranty, expressed or implied, concerning the examinations and corrective measures
described in this Owner's 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]
Inspector's Signature

Commissions

FACTORY MUTUAL SYSTEMS
NB-9947, ARK-II33 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date April 22, 19 91

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3/21/91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00839134
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Chemical Volume Control System (CVCS)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, N/A ADDENDA,
N/A CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Gate Valve	Wheaton Hydraulic	949	NA	ZCVC-1B	1971	Replaced	Yes
Gate Valve	Wheaton Hydraulic	1010	NA	ZCVC-1B	1973	Replacement	Yes

7. DESCRIPTION OF WORK Cutout and replaced valve with like for like.
8. TESTS CONDUCTED: HYDROSTATIC ☒ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE 2350 psi TEST TEMP. 600 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

NPV-1
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed Arnold B. Long Jr Date June 18, 1991
Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-1133 "N" "I"
National Board, State, Province, and Endorsements

J. O. Elliott
Date June 19, 1991

FORM NP-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Weston Hydraulics 7500 Tyrone Avenue Van Nuys, Ca. Order No. A42496
(Name & Address of Manufacturer)
2. Manufactured for Bechtel Power Corp., P.O. Box 3965, San Francisco Order No. 6600-M-2114-B
(Name and Address) California
3. Owner Arkansas Power and Light Company
4. Location of Plant Little Rock, Arkansas
5. Pump or Valve Identification Part Number 70130 2 Inch Gate Valve Tag No. 2"CCA-GT
Serial Numbers 995-1019 (25 Valves)
(Brief description of service for which equipment was designed)
- (a) Drawing No. 70130 Prepared by Weston Hydraulics
- (b) National Board No. _____
6. Design Conditions 3600 100 °F
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III, Class I
Edition 1971, Addenda Date SUMMER '72, Case No. _____

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Gate - Code 1A62	SA351-CFRM		
Casting - 70437		Rox Precision	
Machined - 70438		Weston Hydraulics	
(b) Forgings			
Body - Code 1A41, 1A42	SA182-F316		
Forging - 70433		Reisner Metals	
Machined - 70434		Weston Hydraulics	
Welded Assy. - 70486		Weston Hydraulics	
Bonnet - Code 1A44	SA182-F316		
Forged Stock		Jorgensen Co.	
Machined - 70439		Weston Hydraulics	

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

8. Hydrostatic test _____ 5400-5450 _____ psi.

Design information on file at Weston Hydraulics 7500 Tyrone Avenue Van Nuys, California 91409
 Stress analysis report on file at Weston Hydraulics 7500 Tyrone Avenue Van Nuys, California 91409
 Design specifications certified by D. H. Leonard, Jr. (1) Prof. Eng. State Texas Reg. No. 25165
 Stress analysis report certified by R. L. Citorley (1) Prof. Eng. State Calif. Reg. No. 13790
 (1) Signature not required. List name only.

Date 20 December 19 73 Signed Weston Hydraulics NY
(Manufacturer)
Certificate of Authorization No. 533 expires December 18, 1975

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of California and employed by Dept. of Bldg. and Safety of City of Los Angeles have inspected the equipment described in this Data Report on 20 December 1973, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

J. M. Rossi
(Inspector)

Commission _____ (National Board State Province and No.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENTERGY OPERATIONS, INC. DATE 3-21-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. #00820208
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENTERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Primary Coolant System (2BCB-3)
5. (a) APPLICABLE CONSTRUCTION CODE III 1970 EDITION, NA ADDENDA,
CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 1986
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target</u>	<u>2</u>	<u>NA</u>	<u>2SV-5833-1</u>	<u>1970</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed seal weld and re-seal in body to banner
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/18, 19 91

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS.

have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-1133 "N" "I"
National Board, State, Province, and Endorsements

Date April 22, 19 91

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required By the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-23-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00833842
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Safety Injection System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target Rock</u>	<u>4</u>	<u>NA</u>	<u>ZSV-5046</u>	<u>1981</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/16, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
Owner's Report during the period 11-20-89 to 4-16-91
and state that to the best of my knowledge and belief, the Owner has performed
examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
warranty, expressed or implied, concerning the examinations and corrective measures
described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-I133 "N" "I"

J. O. Elliott

Date April 16, 1991

National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-23-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00833841
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target Rock</u>	<u>1</u>	<u>NA</u>	<u>2SV-5026</u>	<u>1981</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date E/ASigned [Signature] Date 4/16, 1991
 Owner or Owner's Designee, Title
 R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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
NORWOOD, MASS. and employed by ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
 Owner's Report during the period 11-20-89 to 4-16-91
 and state that to the best of my knowledge and belief, the Owner has performed
 examinations and taken corrective measures described in this Owner's Report in
 accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
 warranty, expressed or implied, concerning the examinations and corrective measures
 described in this Owner's 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.

J. O. Elliott
 Inspector's Signature
Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-I133 "N" "I"
 Date April 16, 1991
 National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 3-23-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. #00853839
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM High Pressure Safety Injection (2 FCB-6-1)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target</u>	<u>2</u>	<u>NA</u>	<u>2SV-5006</u>	<u>1970</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
 repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Date 4/18, 19 91
 Owner or Owner's Designee, Title
 R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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
NORWOOD, MASS. and employed by ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
 Owner's Report during the period 11-20-89 to 4-20-91
 and state that to the best of my knowledge and belief, the Owner has performed
 examinations and taken corrective measures described in this Owner's Report in
 accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
 warranty, expressed or implied, concerning the examinations and corrective measures
 described in this Owner's 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.

J. O. Elliott
 Inspector's Signature
Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-I133 "N" "I"

National Board, State, Province, and Endorsements

 J. O. Elliott
 Date April 22, 19 91

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DAY 3-30-71
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00830772
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Chemical Volume Control System (CVC'S)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, N/A ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Valve	Rockwell	KA-609	NA	2CVC-78	1970	Replaced	No
Valve	Rockwell	NA-353	NA	2CVC-78	1975	Replacement	No

7. DESCRIPTION OF WORK Cut-out valve and replaced like for like.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE 188 psi TEST TEMP. 300 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS NIPV-1
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/16, 1991
Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-16-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-1133 "N" "I"
Date April 16 1991
National Board, State, Province, and Endorsements

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

20VC-78
S/N-353

1. Manufactured by Rockwell International Flow Control Division Order No. 61-90531
P. O. Box 501, Sulphur Springs, Texas 75480
(Name & Address of Manufacturer)
2. Manufactured for Bechtel Power Corporation Order No. 6600-M-2114-CC
P. O. Box 3965, San Francisco, California 94119
(Name and Address)
3. Owner Arkansas Power and Light Company
P. O. Box 459, Russellville, Arkansas 72801
4. Location of Plant Arkansas Nuclear One, Unit Number Two
London, Arkansas 72647
5. Pump or Valve Identification (3) 2"D3674 F316T1 Valves Serial Number NA352 thru NA354

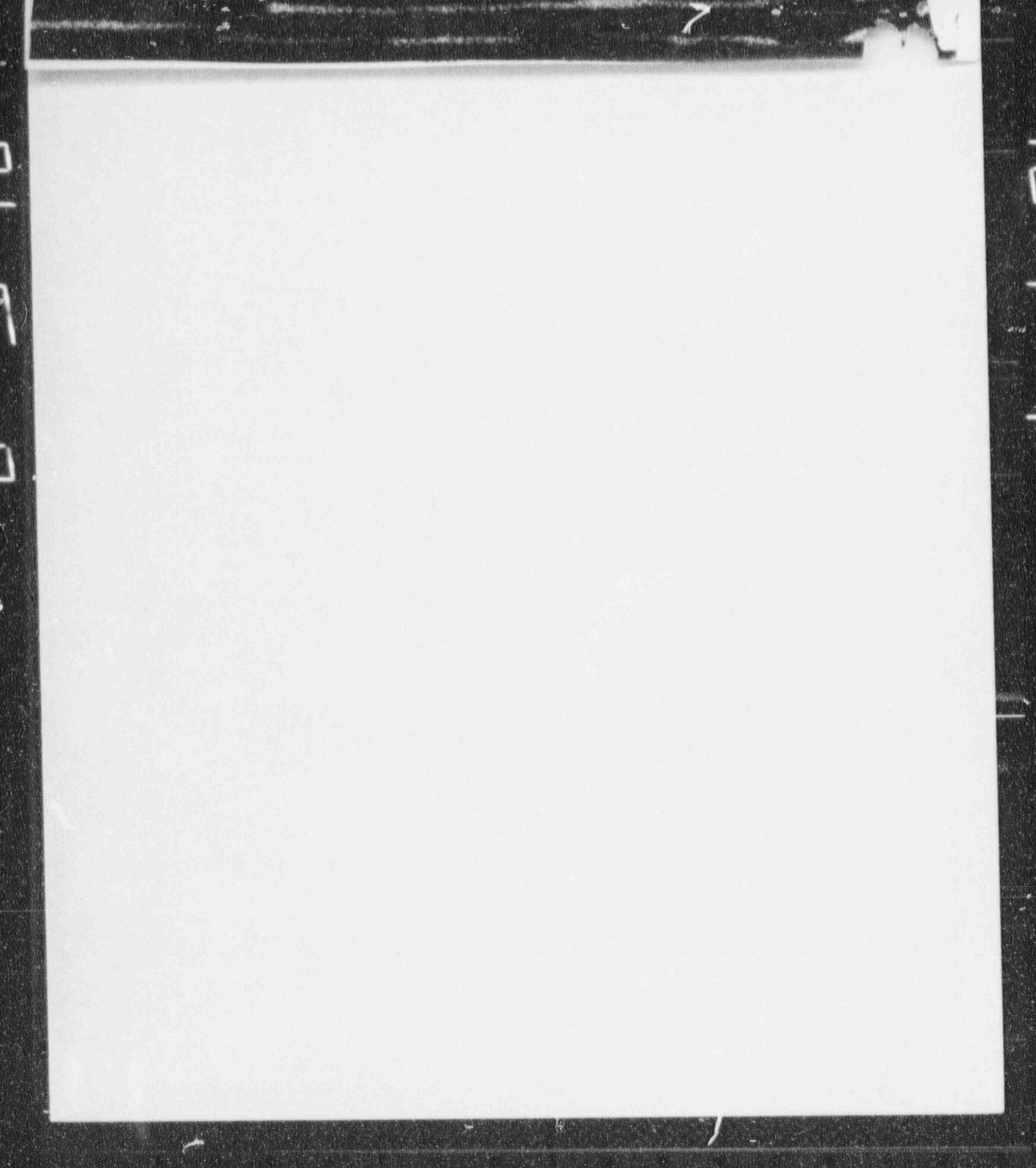
Rockwell International Assembly Lot No. H695

(Brief description of service for which equipment was designed)

- (a) Drawing No. D-473665 Rev. None Prepared by David H. Tharnes
- (b) National Board No. None
6. Design Conditions 2240 psi 800 °F
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1
- Edition 1971, Addenda Date December 31, 1972 No. None

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Valve Disk	K877B	A567-GR-1	Consolidated Heat E.
(b) Forgings			
Valve Bodies	SK859N	SA162-GR-F316N	Texas Forge Heat 08872
Valve Body	SK867N	SA162-GR-F316N	Texas Forge Heat 09001

00006920338



FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Valve Covers	SA479-T-316	Crucible	Heat X15327 *
Sealweld Filler	SFA5.9-ER316	Teladyns McRay	Heat L-2134 *

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Rockwell International, Sulphur Springs, Texas
 Stress analysis report on file at Rockwell International, Sulphur Springs, Texas
 Design specifications certified by B. H. Leonardi, Jr. (1) Prof. Eng. Sta. Texas Reg. No. 25165
 Stress analysis report certified by David H. Thorneau (1) Prof. Eng. Sta. Texas Reg. No. 30081
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date 10-28 1975 Signed Rockwell International By H. H. Leonardi
(Manufacturer)Certificate of Authorization No. N848 expires August 6, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Texas and employed by Lambertons Mutual Casualty Co. of Long Grove, Illinois 60049 have inspected the equipment described in this Data Report on 10-28 1975 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data 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.

10-28 1975

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4-1-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARK-JSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 I.O.# 00833843
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137 G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM High Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target</u>	<u>3</u>	<u>NA</u>	<u>25V-5066</u>	<u>E</u> <u>1970</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed seal weld and re-seal welded body to burner
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Donald B. Smith for Date May 2, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-I133 "N" "I"
National Board, State, Province, and Endorsements

J. O. Elliott
Date May 2, 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&I/ENERGY OPERATIONS, INC. DATE 4-2-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 J.O. # 00839587
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&I/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Reactor Coolant System (RCS)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 70 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>George-Warner</u>	<u>11874</u>	<u>NA</u>	<u>ZCV-4698-1</u>	<u>1970</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Machined oversized disc to fit.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☒
OTHER ☐ PRESSURE 2250 psi TEST TEMP. 652 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned R. D. Lane Date May 2, 1991

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 *ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
Owner's Report during the period 11-20-89 to 4-20-91
and state that to the best of my knowledge and belief, the Owner has performed
examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
warranty, expressed or implied, concerning the examinations and corrective measures
described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions

*FACTORY MUTUAL SYSTEMS
NB-9947, ARK-1133 "N" "I"
National Board, State, Province, and Endorsements

J. O. Elliott

Date May 2, 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4-4-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 3
Address
- UNIT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 J.O.#00832654
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137 G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address
- EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Steam Generator (2E-24B)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Primary Manway Stud	C.E.	NA	NA	BP1	^E 1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP1-1	^E 1991	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP3	^E 1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP3-1	^E 1991	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP4	^E 1989	Replaced	No

7. DESCRIPTION OF WORK Replaced 22 Primary Manway Studs & 1 nut.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE _____ psi TEST TEMP. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A

Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date May 23, 19 91
Owner or Owner's Designee, Title
R. D. Ladd, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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]
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-1133 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date May 28, 19 91

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
Primary Manway Stud	C.E.	NA	NA	BP4-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP5	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP5-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP7	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP7-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP10	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP10-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP12	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP12-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP14	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP14-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP18	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP18-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP19	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP19-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP20	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP20-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP21	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP21-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP23	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP23-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP24	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP24-1	1991 ^E	Replacement	No
Primary Manway Stud	C.E.	NA	NA	BP28	1989	Replaced	No
Primary Manway Stud	C.E.	NA	NA	BP28-1	1991	Replacement	No

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4/4/91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00830457
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Chemical + Valve Control System
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Rockwell</u>	<u>KA-609</u>	<u>NA</u>	<u>2CVC-78</u>	<u>1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed and re-seal welded body to bonnet.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Donald B. Lane Date May 2, 1991
Owner or Owner's Designee, Title
K. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-II33 "N" "I"
Date May 2, 1991
National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENTERGY OPERATIONS, INC. DATE 4-5-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.#00840581
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENTERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Main Steam (ZERC-1-1)
5. (a) APPLICABLE CONSTRUCTION CODE III 1970 EDITION, NA ADDENDA,
N/A CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target Rock</u>	<u>50</u>	<u>NA</u>	<u>ZSV-0205</u>	<u>1985</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed seal weld and re-seal welded body to barrel.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Date 4/18, 19 91

Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-II33 "N" "I"

Date April 22, 19 91

National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4-10-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. #00838424
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Hydrogen Purge
5. (a) APPLICABLE CONSTRUCTION CODE TII 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<i>Valve</i>	<i>Target Rock</i>	<i>2</i>	<i>NA</i>	<i>25V-8265-1</i>	<i>1976</i>	<i>Repaired</i>	<i>Yes</i>

7. DESCRIPTION OF WORK Removed and re-welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Donald B. Lane Date May 2, 1991

Owner or Owner's Designer, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
Owner's Report during the period 11-20-89 to 4-20-91
and state that to the best of my knowledge and belief, the Owner has performed
examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
warranty, expressed or implied, concerning the examinations and corrective measures
described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions FACTORY MUTUAL SYSTEMS
NB-9947, ARK-1133 "N" "I"

J. O. Elliott

Date May 2, 1991

National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4-13-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. # 00814131
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve</u>	<u>Target Lock</u>	<u>4</u>	<u>NA</u>	<u>ZSV-5044</u>	<u>1981</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Removed seal weld and re-seal welded body to bonnet
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned R. D. Lane Date May 2, 1991Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-II33 "N" "I"
Date May 2, 1991 National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4-15-91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT T-2
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 T.O. # 00797671
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Reactor Coolant System (RCS)
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Check Valve</u>	<u>Atwood + Morrill</u>	<u>8-626</u>	<u>NA</u>	<u>2SI-15C</u>	<u>E 1971</u>	<u>Parts Replacement</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Replaced 4 studs, 2 nuts and 2 roll pins in disc.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☒
OTHER ☐ PRESSURE 1000 psi TEST TEMP. 150 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this parts replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed R. D. Lane Date June 18, 1991
Owner or Owner's Designee, Title
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions "FACTORY MUTUAL SYSTEMS"
Inspector's Signature NB-9947, ARK-II33 "N" "I"
Date June 19, 1991 National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4-15-91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O. #00823927
Address Repair Organization PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM High Pressure Safety Injection (ZCCA-24)
5. (a) APPLICABLE CONSTRUCTION CODE TIL 19 70 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>PIPING</u>	<u>VARIOUS</u>	<u>NA</u>	<u>NA</u>	<u>ZCCA-24-12"</u>	<u>1971</u>	<u>Repaired</u>	<u>No</u>

7. DESCRIPTION OF WORK Removed surface defect, no repair weld required
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☐
OTHER ☐ PRESSURE NA psi TEST TEMP. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A

Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Donald B. Lane, Jr. Date 5/2, 1991

Owner or Owner's Designee, Title
 R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 *ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4/20/91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott
 Inspector's Signature

Commissions

*FACTORY MUTUAL SYSTEMS
 NB-9947, ARK-1133 "N" "I"

National Board, State, Province, and Endorsements

J. O. Elliott

Date May 2, 1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4/16/91
Name
RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 J.O.# 00797668
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
RT. 3, Box 137G, RUSSELLVILLE, AR. 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, NA ADDENDA,
NA CODE CASE
(b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve Disc</u>	<u>Atwood & Merrill</u>	<u>3-626</u>	<u>NA</u>	<u>2SI-15A</u>	<u>E 1971</u>	<u>Repaired</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Replaced solid roll pin with grooved pin in disc.
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE ☒
OTHER ☐ PRESSURE 1000 psi TEST TEMP. 150 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this
repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed André C. Laroche Date June 18, 1991

Owner or Owner's Designer, Title
R. D. Laroche, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of
NORWOOD, MASS. have inspected the components described in this
Owner's Report during the period 11-20-89 to 4-20-91
and state that to the best of my knowledge and belief, the Owner has performed
examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any
warranty, expressed or implied, concerning the examinations and corrective measures
described in this Owner's 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.

J. O. Elliott
Inspector's Signature

Commissions

FACTORY MUTUAL SYSTEMS
NB-9947, ARK-II133 "N" "I"

J. O. Elliott
Date June 19, 1991

National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. OWNER AP&L/ENERGY OPERATIONS, INC. DATE 4/16/91
Name
- RT. 3, BOX 137 G, RUSSELLVILLE, AR. 72801 SHEET 1 of 1
Address
2. PLANT ARKANSAS NUCLEAR ONE UNIT Two
Name
- RT. 3, BOX 137G, RUSSELLVILLE, AR. 72801 ISO # 00797668
Address Repair Organisation PO No., Job No., etc.
3. WORK PERFORMED BY AP&L/ENERGY OPS., INC. TYPE CODE SYMBOL STAMP N/A
Name
- RT. 3, Box 137G, RUSSELLVILLE, AR 72801 AUTHORIZATION NO. N/A
Address EXPIRATION DATE N/A
4. IDENTIFICATION OF SYSTEM Low Pressure Safety Injection
5. (a) APPLICABLE CONSTRUCTION CODE III 19 71 EDITION, N/A ADDENDA,
N/A CODE CASE
- (b) APPLICABLE EDITION OF SECTION XI UTILIZED FOR REPAIRS OR REPLACEMENTS 19 86
6. IDENTIFICATION OF COMPONENTS REPAIRED OR REPLACED AND REPLACEMENT COMPONENTS

NAME OF COMPONENT	NAME OF MANUFACTURER	MANUFACTURER SERIAL NO.	NATIONAL BOARD NO.	OTHER IDENTIFICATION	YEAR BUILT	REPAIRED, REPLACED, OR REPLACEMENT	ASME CODE STAMPED (YES OR NO)
<u>Valve studs & nuts</u>	<u>Atwood & Merrill</u>	<u>3-626</u>	<u>NA</u>	<u>ZSI-15A</u>	<u>1971</u>	<u>Replacement</u>	<u>Yes</u>

7. DESCRIPTION OF WORK Replaced studs and nuts
8. TESTS CONDUCTED: HYDROSTATIC ☐ PNEUMATIC ☐ NOMINAL OPERATING PRESSURE X
OTHER ☐ PRESSURE 1000 psi TEST TEMP. 150 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. REMARKS

N/A
Applicable Manufacturer's Data Reports to be Attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conform to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/A

Signed R. D. Lane for Owner or Owner's Designee, Title
Date June 18, 1991
R. D. Lane, Manager Engineering - STANDARDS & PROGRAMS

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 ARKWRIGHT MUTUAL INSURANCE CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11-20-89 to 4-20-91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

J. O. Elliott Commissions FACTORY MUTUAL SYSTEMS
Inspector's Signature NB-9947, ARK-1133 "N" "I"
National Board, State, Province, and Endorsements

J. O. Elliott
Date June 19, 1991