

INTERVAL 2 PERIOD 1 OUTAGE 3

INSERVICE INSPECTION REPORT

OF THE

JOSEPH M. FARLEY NUCLEAR PLANT

UNIT 1

COLUMBIA, ALABAMA

REPORT DATE: AUGUST 2, 1991

OWNER: ALABAMA POWER COMPANY  
600 NORTH 18TH STREET  
P.O. BOX 2641  
BIRMINGHAM, ALABAMA 35291

COMMERCIAL SERVICE DATE: DECEMBER 1, 1977

# I N D E X

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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.

## FORM NIS-1

- Examination Dates 03/08/91 to 05/17/91 9. Inspection Interval from 12/01/87 to 11/30/97
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Tabs B, C, and E.
11. Abstract of Conditions Noted. See Tab B
12. Abstract of Corrective Measures Recommended and Taken. See Tab B

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

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

Date July 31 19 91 Signed R.M. Gensai By APCO  
Owner

## 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 GEORGIA and employed by Arkwright Mutual Insurance Company of Worcester, Massachusetts, have inspected the components described in this Owner's Report during the period 3/8/91 to 7/22/91 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 System

Charles J. Wand  
Inspector's Signature

Commissions GA-00328 I, N  
National Board, State, Province, and Endorsements

Date 7/31 19 91

OWNER'S REPORT  
FOR  
INSERVICE INSPECTION

DATE: August 2, 1991

OWNER NAME AND ADDRESS:

Alabama Power Company  
600 North 18th Street  
P.O. Box 2641  
Birmingham, Alabama 35291

NAME AND ADDRESS OF NUCLEAR GENERATING PLANT:

Joseph M. Farley Nuclear Plant  
Highway 95 South  
Columbia, Alabama 36319

NAME ASSIGNED TO NUCLEAR POWER UNIT:

Joseph M. Farley Nuclear Plant  
Unit 1

OWNER CERTIFICATE OF AUTHORIZATION:

N/A

COMMERCIAL SERVICE DATE:

December 1, 1977

NATIONAL BOARD NUMBER:

See listed NB's for each component

NAME OF COMPONENTS OR PARTS OF COMPONENTS INVOLVED:

Representative samples of the following components and systems were examined using nondestructive examination techniques.

Class 1

<u>Component or System</u>	<u>System Designation</u>	<u>ALA Sketch</u>
Steam Generator A/B/C	B21	N/A
Reactor Coolant System Hanger	B13	1-4105

Class 2

<u>Component or System</u>	<u>System Designation</u>	<u>ALA Sketch</u>
Residual Heat Exchanger A	E11	2-3500
CVCS System Hangers	E21	2-1110, 2-1120

HYDROSTATIC TESTING: See Tabs B and E

NAME AND ADDRESS OF MANUFACTURER OR INSTALLER OF COMPONENTS:

1.        Steam Generators  
Westinghouse Electric Corporation  
Tampa Division  
Tampa Florida
2.        Residual Heat Exchanger  
Joseph Oat & Sons, Inc.  
Camden, New Jersey
3.        Class 1 and 2 Piping  
Daniel Construction Co.  
Greenville, South Carolina

INSERVICE INSPECTION DATES: March 8, 1991 to May 17, 1991

NAME OF AUTHORIZED NUCLEAR INSERVICE INSPECTOR: Charles G. Ward

NAME AND MAILING ADDRESS OF INSPECTOR'S EMPLOYER:

Arkwright Mutual Insurance Company  
225 Wyman St.  
P.O. Box 9198  
Waltham, Ma. 02254-9198

ABSTRACT: See Tabs B and C

ALABAMA POWER COMPANY  
J. M. FARLEY NUCLEAR PLANT UNIT NO. 1  
INTERVAL 2 PERIOD 1 OUTAGE 3  
EXAMINATION SUMMARY

## INTRODUCTION

An inservice examination of Class 1 and 2 components and piping systems was conducted at Farley Nuclear Plant Unit 1 from March 8, 1991 to May 17, 1991. The examinations were performed in accordance with an approved Examination Program Plan located under Tab C of this report. The primary areas of examination included the Steam Generators, Reactor Coolant piping, RHR Heat exchangers and CVCS Piping.

The program utilized eddy current, visual, and surface nondestructive testing methods in accordance with the requirements of:

- (a) ASME Section XI 1983 Edition up to and including the Summer, 1983 Addenda, and
- (b) Technical Specifications 4.0.5 and 4.4.6.

Selected examinations and related activities were witnessed by representatives of Alabama Power Company, its authorized inspection agency, and the United States Nuclear Regulatory Commission. All examinations were performed to the extent practical within geometrical and physical limitations.

Examination procedures were approved prior to the examinations. Certification documents relative to personnel, equipment and materials were reviewed by representatives of Alabama Power Company.

## RESULTS

Examinations resulted in recordable indication areas being noted on the basis of procedure recording criteria, which generally are more conservative than specified in ASME Section XI Acceptance Standards. Except for eddy current, all of the indications were evaluated and dispositioned by Indication Evaluation Reports (IER), shown in Tab F of this report. For eddy current, Westinghouse is responsible for performing data evaluation in accordance with Technical Specifications acceptance criteria. The results are summarized below.



## SUMMARY OF INDICATIONS

### CLASS 1

#### (a) VISUAL EXAMINATIONS

No indications were noted.

#### (b) EDDY CURRENT EXAMINATIONS

During the tenth refueling outage of Farley Unit 1 all non-plugged tubes in all three steam generators were examined. The results are summarized below including the cumulative number of plugged tubes.

	<u>S/G 1A</u>	<u>S/G 1B</u>	<u>S/G 1C</u>
Plugged prior to UIRF10	106	106	127
Determined defective during UIRF10 (excluding Row 1)	113	42	59
Determined degraded during UIRF10	31	17	47
Replugged Row 1 tubes due to defective indications	18	22	11
Returned to service during UIRF10	7	71	81
Total plugged after UIRF10	143	77	105
% plugged after UIRF10	4.22	2.27	3.10

Table 1 (attached) identifies the tubes with imperfections by location, percent of wall-thickness penetration (where applicable, and rotating pancake coil (RPC) results (where applicable). Table 1 also shows which tubes were plugged.

### CLASS 2

#### (a) SURFACE EXAMINATIONS

Several recordable linear indications were noted on RHR Heat Exchanger A however all were below the acceptance standards of IWB-3415-2. These indications were dispositioned per IER 001 in Tab F.

#### (b) VISUAL EXAMINATIONS

No indications were noted.

## ADDITIONAL EXAMINATIONS

Results from additional examinations which were performed during this outage are shown in Tab E of this report and are summarized as follows:

### 1. Class 1 System Leakage Test

In accordance with ASME Section XI 1983 Edition IWB-5120(a), leak testing of the Class 1 Reactor Coolant System Pressure Boundary was performed prior to startup following the tenth refueling outage. The testing was completed by plant personnel on 5/17/91. A copy of the completed test procedure is retained by the Farley Nuclear Plant Document Control.

### 2. Class 1 & 2 Hydrostatic Testing

A hydrostatic test of a Class 2 system was performed during the tenth outage of the first forty-month period of the second interval in accordance with the requirements of ASME Code Section XI, Articles IWA-5000, and IWC-5000, respectively.

The table below is a listing of the test procedure used and discrepancies found during testing. The completed test procedure is retained in the Farley Nuclear Plant Document Control for the life of the plant.

#### FARLEY NUCLEAR PLANT UNIT 1

#### HYDROSTATIC TEST - TENTH REFUELING OUTAGE

<u>PROCEDURE</u>	<u>DESCRIPTION OF LEAKS</u>
1. FNP-1-STP-160.9 WA 91273 VCT and connecting lines, Charging Pumps Suction header Inservice Hydrotest	None

### 3. Steam Generator Feedwater Nozzle-to-Reducer Weld Examinations

The feedwater nozzle-to-reducer welds on Steam Generators A/C were examined during the tenth refueling outage by 100% ultrasonic testing on March 13, 1991 using WA 91257, procedure FNP-0-NDE-480, Official Test Copy 901128-1. All examinations were acceptable. A copy of the completed test procedure is retained by the FNP Document Control.



4. Verification of Spring Hanger Settings

Verification of a variable spring hanger was performed during the tenth refueling outage as summarized in Tab E. The one spring hanger observed was within the acceptance criteria.

5. Class 2 Functional/Inservice Testing

Functional/Inservice tests of Class 2 systems were performed during the tenth refueling outage of the first forty-month period of the second interval in accordance with the requirements of ASME Code Section XI, Articles IWA-5000, and IWC-5000. Systems examined Reactor Coolant, RHR, Safety Injection, CVCS, Post Accident Sampling, Waste Processing, Spent Fuel Pool Cooling, Demineralized Water, Containment Cooling and Purge, Service Water, Component Cooling Water, Service Air, and Instrument Air. The completed test procedure FNP-1-STP-156.1 OTC 910312-1 is retained in the Farley Nuclear Plant Document Control for the life of the plant.

6. Miscellaneous Examinations

Examination of Steam Generator Support Bolting in response to INPO SOER 84-05. UT examinations were performed of Steam Generator Support bolting per FNP-0-NDE-888, OTC 901127-1 WA 93245 on Steam Generator A--Pads 3,4; Steam Generator B--Pads 1,3; and Steam Generator C--Pads 2,3,4. No indications were noted. A copy of the completed test procedure is retained by the FNP Document Control.

STATUS OF EXAMINATIONS REQUIRED FOR CURRENT INTERVAL

The examinations completed to date represent one hundred percent of the total Class 1 and 2 scope for the current period. Approximately one third of the examinations required for the current interval have been completed. The major portion of the second interval scope remaining includes Class 1 and 2 exams on loops 2 and 3.

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
A	1	1	TSH	17.57	36		NO
A	1	1	TSC	17.71	<20		
A	1	3	TSH	17.70	34		NO
A	1	4	TSH	17.70	65		YES**
A	1	5	TSH	17.68	70		YES**
A	1	15	SPH7	11.00	----	SAI	YES**
A	1	16	SPH7	11.18	----	SAI	YES**
A	1	24	SPH7	10.61	----	SAI	YES**
A	1	26	SPH7	3.68	----	MAI	YES**
A	1	34	SPH7	10.32	----	SAI	YES**
A	1	42	SPH7	10.42	----	SAI	YES**
A	1	44	SPH7	10.27	----	MAI	YES**
A	1	48	SPH7	3.52	----	SAI	YES**
A	1	50	SPH7	8.68	----	COI	YES**
A	1	53	SPH7	9.97	----	SAI	YES**
A	1	55	SPH7	10.70	----	SAI	YES**
A	1	57	SPH7	10.15	----	SAI	YES**
A	1	58	SPH7	10.48	----	MAI	YES**
A	1	59	SPH7	9.93	----	SAI	YES**
A	1	91	TSH	17.95	46		YES**
A	1	92	TSH	17.30	55		YES**
A	1	93	TSH	17.23	33		NO
A	1	94	TSH	17.53	34		NO
A	2	3	SPH4	0.00	DI	SAI	YES
A	2	5	SPH4	0.00	DI	NDD	NO
A	2	21	SPH7	13.45	----	MAI	YES
A	2	29	SPH4	49.38	<20		NO
A	2	33	SPH7	13.93	----	SAI	YES
A	2	59	TSH	2.13	<20		NO
A	2	67	TSH	-0.48	NDD	SAI	YES
A	2	72	TSC	3.28	<20		NO
A	2	78	SPH4	0.00	DI	NDD	NO
A	3	3	SPH3	0.00	DI	NDD	NO
A	3	10	SPH3	0.00	DI	NDD	NO
A	3	17	SPH1	0.00	DI	SAI	YES
A	3	49	TSC	4.97	26		NO
A	3	51	SPH1	0.00	DI	NDD	NO
A	3	77	TSH	-0.22	NDD	SAI	YES
A	3	90	SPH4	0.00	DI	NDD	NO
A	3	90	SPH2	0.00	DI	NDD	
A	3	91	SPH3	0.00	DI	NDD	NO
A	3	92	TSH	-0.20	NDD	SAI	YES
A	3	92	SPH4	0.00	DI	NDD	
A	4	3	SPH5	0.00	DI	NDD	NO
A	4	3	TSH	4.39	<20		
A	4	4	TSH	-0.19	NDD	SAI	YES
A	4	5	SPH5	0.00	DI	SAI	YES

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
A	4	5	SPH3	0.00	DI	SAI	
A	4	5	SPH4	0.00	DI	NDD	
A	4	18	TSC	3.19	<20		NO
A	4	19	TSH	-0.59	NDD	SAI	YES
A	4	22	TSH	1.37	DI	NDD	NO
A	4	24	TSH	1.70	30	NDD	NO
A	4	24	TSH	1.64	21		
A	4	33	TSC	16.10	<20		NO
A	4	70	SPH4	0.00	DI	MAI	YES
A	4	80	SPH1	0.00	DI	SAI	YES
A	4	93	SPH5	0.00	DI	SAI	YES
A	5	4	SPH4	0.00	DI	NDD	NO
A	5	8	SPH5	1.68	<20		NO
A	5	18	SPH4	0.00	DI	NDD	NO
A	5	25	TSH	-0.11		COI	YES
A	5	40	TSC	3.47	<20		NO
A	5	46	TSC	3.98	<20		NO
A	5	47	TSC	7.21	<20		NO
A	5	47	TSC	5.87	<20		
A	5	53	SPH2	0.00	DI	NDD	NO
A	5	59	TSH	0.74	DI	MAI	YES
A	5	59	SPH1	0.00	76	SAI	
A	5	61	TSC	2.71	23		NO
A	5	61	TSC	4.54	<20		
A	5	61	TSC	6.10	<20		
A	5	76	SPH4	0.00	DI	SAI	YES
A	6	4	SPH4	0.00	DI	NDD	NO
A	6	13	SPH3	0.00	DI	NDD	NO
A	6	14	TSC	0.99	<20		NO
A	6	25	TSH	-0.09	NDD	COI	YES
A	6	28	TSH	-0.10	NDD	COI	YES
A	6	49	TSH	-2.67	NDD	SAI	YES
A	6	63	TSH	-0.26	NDD	SAI	YES
A	7	21	TSH	-0.18	NDD	COI	YES
A	7	22	TSH	3.16	<20		
A	7	23	TSH	3.11	<20		
A	7	42	TSH	-0.15	NDD	SAI	YES
A	7	75	TSH	-0.20	NDD	COI	YES
A	8	2	SPH5	0.00	DI	NDD	NO
A	8	2	SPH4	0.00	DI	NDD	
A	8	22	TSH	7.22	<20		NO
A	8	23	TSH	-0.16	NDD	COI	YES
A	8	25	TSH	4.97	<20		NO
A	8	29	TSH	0.17	NDD	SAI	YES
A	8	35	TSH	2.62	57	SAI	YES
A	9	3	SPH5	0.00	DI	NDD	NO
A	9	3	SPH4	0.00	DI	NDD	
A	9	7	SPH2	0.00	DI	SAI	YES

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND. * RPC	PLUGGED
A	9	10	SPH3	0.00	DI	NDD	NO
A	9	24	TSH	1.00	DI	MAI	YES
A	9	34	TSH	-1.08	DI	SAI	YES
A	9	34	TSH	7.29	<20		
A	9	74	SPH2	0.00	DI	SAI	YES
A	9	75	TSH	-0.18	NDD	COI	YES
A	9	75	SPH1	0.00	DI	NDD	
A	9	75	TSH	2.39	<20		
A	9	76	SPH1	0.00	DI	SAI	YES
A	9	76	TSH	-0.11	NDD	COI	
A	10	2	SPH5	0.00	DI	SAI	YES
A	10	2	SPH4	0.00	87	SAI	
A	10	2	SPH7	29.67	23		
A	10	2	SPH6	0.00	DI	NDD	
A	10	3	SPH7	0.00	DI	NDD	NO
A	10	19	TSH	0.00	DI	COI	YES
A	10	25	TSH	1.40	<20	NDD	NO
A	10	26	TSC	6.80	26		NO
A	10	26	TSC	6.38	<20		
A	10	28	SPH1	0.00	DI	SAI	YES
A	10	30	SPH4	0.00	DI	SAI	YES
A	10	30	TSH	0.89	<20	MAI	
A	10	30	TSH	7.50	34		
A	10	47	SPH2	0.00	DI	NDD	NO
A	11	5	SPH4	0.00	69	MAI	YES
A	11	7	SPH4	0.00	DI	SAI	YES
A	11	23	TSH	1.36	NDD	SAI	YES
A	11	25	TSH	1.36	NDD	SAI	YES
A	11	26	TSH	1.43	28	NDD	NO
A	11	31	TSH	1.16	38	NDD	NO
A	11	35	TSH	-0.60	NDD	SAI	YES
A	11	37	TSH	0.75	<20		NO
A	11	40	SPH5	11.87	<20		NO
A	11	61	TSC	6.92	30		NO
A	11	61	TSC	3.43	<20		
A	11	61	TSC	5.11	<20		
A	12	3	SPH5	0.00	DI	NDD	NO
A	12	25	TSH	0.91	22	NDD	NO
A	12	30	TSC	6.00	<20		NO
A	12	43	TSH	1.69	NDD	SAI	YES
A	12	66	TSH	-0.07	NDD	COI	YES
A	12	67	TSC	5.09	24		NO
A	13	14	SPH1	0.00	DI	NDD	NO
A	13	16	SPH1	0.00	DI	SAI	YES
A	13	25	TSH	1.05	36	NDD	NO
A	13	29	TSH	0.94	NDD	SAI	YES
A	13	63	TSH	-0.10	NDD	COI	YES
A	13	64	TSH	-0.07	NDD	COI	YES



TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
A	13	65	TSH	-0.06	NDD	COI	YES
A	13	66	TSH	-0.01	NDD	COI	YES
A	13	74	TSH	-0.13	NDD	COI	YES
A	13	82	SPH1	0.00	DI	NDD	NO
A	14	3	SPH2	0.00	85	SAI	YES
A	14	3	SPH4	0.00	DI	NDD	
A	14	4	SPH3	0.00	DI	SAI	YES
A	14	6	SPH4	0.00	DI	NDD	NO
A	14	18	SPH6	0.00	DI	SAI	YES
A	14	22	SPH3	0.00	DI	SAI	YES
A	14	49	TSH	1.19	<20		NO
A	14	52	TSH	-2.40	NDD	SAI	YES
A	15	3	SPH4	0.00	DI	SAI	YES
A	15	6	SPH4	0.00	DI	NDD	NO
A	15	61	TSC	6.52	28		NO
A	15	61	TSC	6.03	37		
A	15	91	TSH	0.24	NDD	SAI	YES
A	16	4	SPH4	0.00	DI	MAI	YES
A	16	4	SPH5	0.00	DI	SAI	
A	16	5	SPH6	0.00	DI	SAI	YES
A	16	5	SPH5	0.00	DI	NDD	
A	16	5	SPH4	0.00	DI	NDD	
A	16	11	SPH2	0.00	DI	NDD	NO
A	16	12	SPH3	0.00	DI	MAI	YES
A	16	13	SPH3	0.00	DI	NDD	NO
A	16	27	TSH	2.22	27	NDD	NO
A	16	29	TSH	1.73	NDD	MAI	YES
A	16	29	TSH	3.51	<20		
A	16	29	TSH	4.43	<20		
A	16	82	SPH1	0.00	DI	NDD	NO
A	17	28	AV2	12.87	<20		NO
A	17	35	SPH1	0.00	DI	MAI	YES
A	18	5	SPH6	0.00	DI	NDD	NO
A	18	8	SPH5	0.00	DI	SAI	YES
A	18	8	SPH2	0.00	DI	NDD	
A	18	13	SPH2	0.00	77	SAI	YES
A	18	13	TSH	4.74	22		
A	18	13	TSH	2.06	<20	NDD	
A	18	13	TSH	3.34	<20		
A	18	27	AV2	2.22	21		NO
A	18	31	AV2	1.18	22		NO
A	18	76	SPH1	0.00	DI	NDD	NO
A	19	6	SPH4	0.00	DI	NDD	NO
A	19	15	SPH1	0.00	DI	NDD	NO
A	19	22	TSH	1.18	NDD	SAI	YES
A	19	41	SPH1	0.00	DI	NDD	NO
A	19	65	TSH	0.00	NDD	COI	YES
A	19	86	SPH1	0.00	DI	SAI	YES

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
A	19	86	SPH3	0.00	DI	NDD	
A	20	27	TSH	2.52	DI	NDD	NO
A	20	27	TSH	2.20	DI	NDD	
A	20	51	TSH	-0.91	NDD	SAI	YES
A	20	52	TSC	6.06	<20		NO
A	20	61	TSH	-0.10	NDD	COI	YES
A	20	64	TSH	-0.13	NDD	COI	YES
A	20	66	TSH	0.82	DI	SAI	YES
A	20	76	TSH	1.20	<20	NDD	NO
A	21	12	AV2	2.56	<20		NO
A	21	15	SPH4	0.00	DI	NDD	NO
A	21	57	TSH	-0.18	NDD	COI	YES
A	22	9	AV2	2.82	21		NO
A	22	26	AV2	2.68	21		NO
A	22	28	TSH	-0.23	NDD	COI	YES
A	22	29	TSH	-0.15	NDD	COI	YES
A	22	47	TSH	0.94	NDD	SAI	YES
A	22	55	SPH1	0.00	83	SAI	YES
A	22	63	SPH2	0.00	DI	SAI	YES
A	23	15	TSH	8.38	<20		NO
A	23	26	TSH	1.26	<20	NDD	NO
A	23	80	TSH	8.00	26		NO
A	23	80	TSH	9.50	<20		
A	24	10	AV2	3.16	<20		NO
A	24	29	TSH	-0.10	NDD	COI	YES
A	24	30	TSH	0.07	NDD	COI	YES
A	24	52	TSH	1.75	<20		NO
A	24	68	TSC	3.27	<20		NO
A	25	57	SPH1	0.00	DI	MAI	YES
A	26	10	TSH	0.97	<20	NDD	NO
A	26	13	SPH4	14.18	33		NO
A	26	15	SPH7	27.66	24		NO
A	26	74	SPH5	2.63	<20		NO
A	26	81	SPH2	0.00	DI	NDD	NO
A	27	14	SPH3	0.00	DI	NDD	NO
A	27	17	SPH4	0.00	DI	NDD	NO
A	27	34	TSH	1.31	DI	SAI	YES
A	27	35	SPH1	0.00	DI	MAI	YES
A	28	11	SPH4	0.00	DI	NDD	NO
A	28	12	AV2	24.49	23		NO
A	28	12	SPH3	0.00	DI	NDD	
A	28	12	AV4	0.64	<20		
A	28	14	SPH5	0.00	DI	SAI	YES
A	28	18	SPH3	0.00	DI	NDD	NO
A	28	76	SPH5	0.00	DI	MAI	YES
A	28	76	SPH1	0.00	DI	SAI	
A	28	76	SPH4	0.00	DI	MAI	
A	28	76	SPH2	0.00	DI	MAI	

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
A	28	77	SPH4	0.00	DI	NDD	NO
A	28	82	SPH5	0.00	DI	MAI	YES
A	28	82	SPH3	0.00	DI	SAI	
A	28	82	SPH4	0.00	DI	SAI	
A	29	11	SPH3	0.00	DI	NDD	NO
A	29	13	SPH5	0.00	DI	SAI	YES
A	29	13	SPH6	0.00	DI	NDD	
A	29	17	SPH4	0.00	DI	NDD	NO
A	29	19	TSH	9.00	<20		NO
A	29	40	TSH	0.64	DI	SAI	YES
A	29	73	SPH4	0.00	DI	SAI	YES
A	29	73	SPH5	0.00	DI	SAI	
A	29	73	SPH6	0.00	DI	SAI	
A	29	81	SPH4	0.00	DI	NDD	NO
A	30	12	SPH2	0.00	DI	NDD	NO
A	30	12	SPH4	0.00	DI	NDD	
A	30	12	SPH3	0.00	DI	NDD	
A	30	29	TSH	1.86	<20	NDD	NO
A	30	31	AV2	2.24	22		NO
A	30	76	SPH3	0.00	DI	SAI	YES
A	30	76	SPH5	0.00	DI	SAI	
A	30	76	SPH6	0.00	DI	NDD	
A	31	16	SPH4	0.00	DI	NDD	NO
A	31	18	SPH4	0.00	DI	NDD	NO
A	31	19	SPH3	0.00	DI	NDD	NO
A	31	41	AV2	2.33	28		NO
A	31	81	SPC1	-0.43	<20		NO
A	31	82	TSH	-1.36	NDD	SAI	YES
A	32	16	SPH5	0.00	DI	NDD	NO
A	32	41	SPH7	31.41	29		NO
A	33	16	AV2	3.93	24		NO
A	33	17	SPH4	0.00	DI	SAI	YES
A	33	19	SPH4	0.00	DI	NDD	NO
A	33	19	SPH3	0.00	DI	NDD	
A	33	22	TSH	0.18	NDD	SAI	YES
A	33	61	TSH	1.81	<20		NO
A	33	63	TSH	2.87	<20		NO
A	33	65	TSH	8.50	<20		NO
A	33	71	TSH	8.32	35		NO
A	33	71	TSH	5.93	31		
A	33	72	SPH1	0.00	56	MAI	YES
A	33	73	SPH3	0.00	DI	NDD	NO
A	33	74	SPH5	0.00	DI	SAI	YES
A	34	20	SPH6	0.00	DI	NDD	NO
A	34	21	SPH4	0.00	DI	NDD	NO
A	34	31	TSH	8.80	<20		NO
A	34	33	TSH	-0.70	NDD	SAI	YES
A	34	36	TSH	0.00	NDD	SAI	YES



TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
A	34	41	AV2	2.42	23		NO
A	34	41	TSH	1.88	<20		
A	34	75	TSH	-0.16	NDD	SAI	YES
A	35	17	SPH6	0.00	DI	SAI	YES
A	35	17	SPH7	0.00	DI	NDD	
A	35	17	SPH5	0.00	DI	NDD	
A	35	17	SPH3	0.00	DI	NDD	
A	35	17	SPH4	0.00	DI	NDD	
A	35	18	SPH7	0.00	DI	NDD	NO
A	35	24	SPH4	0.00	DI	NDD	NO
A	35	26	SPH3	0.00	DI	NDD	NO
A	35	35	SPH5	2.43	<20		NO
A	35	63	TSH	9.08	28		NO
A	35	63	TSH	8.00	<20		
A	35	63	TSH	6.51	<20		
A	35	68	SPH1	0.00	82	SAI	YES
A	35	77	TSH	-0.18	NDD	SAI	YES
A	36	20	AV2	0.08	<20		NO
A	36	32	SPH4	0.00	DI	MAI	YES
A	36	32	SPH1	0.00	DI	NDD	
A	36	32	SPH5	0.00	DI	NDD	
A	37	30	SPH5	0.00	DI	NDD	NO
A	37	31	SPH3	0.00	DI	NDD	NO
A	37	34	SPH3	0.00	DI	MAI	YES
A	38	22	SPH4	0.00	DI	SAI	YES
A	38	22	SPH3	0.00	DI	SAI	
A	38	22	SPH2	0.00	DI	SAI	
A	38	22	SPH1	0.00	DI	SAI	
A	38	36	SPH5	0.00	DI	NDD	NO
A	38	36	SPH4	0.00	DI	NDD	
A	38	41	SPH4	0.00	DI	NDD	NO
A	38	41	TSH	1.30	<20		
A	38	57	SPH4	0.00	DI	NDD	NO
A	39	22	SPH4	0.00	DI	NDD	NO
A	39	30	SPH4	0.00	DI	NDD	NO
A	39	33	SPH3	0.00	DI	NDD	NO
A	39	35	SPH1	0.00	82	SAI	YES
A	39	39	SPH4	0.00	DI	NDD	NO
A	39	39	SPH5	0.00	DI	NDD	
A	40	26	TSH	-0.43	NDD	SAI	YES
A	40	26	SPH3	0.00	DI	NDD	
A	40	37	SPH6	0.00	DI	NDD	NO
A	40	37	SPH2	0.00	DI	NDD	
A	40	37	SPH4	0.00	DI	NDD	
A	40	49	SPH6	0.00	DI	SAI	YES
A	40	49	SPH5	0.00	DI	NDD	
A	40	58	SPH5	0.00	DI	NDD	NO
A	40	62	SPH2	0.00	DI	SAI	YES

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
A	40	62	SPH3	0.00	DI	NDD	
A	41	28	TSH	13.13	<20		NO
A	41	31	SPH4	0.00	DI	NDD	NO
A	41	31	SPH3	0.00	DI	NDD	
A	41	32	SPH4	0.00	65	MAI	YES
A	41	60	SPH5	0.00	DI	SAI	YES
A	41	65	SPH3	0.00	DI	NDD	NO
A	42	28	SPH4	0.00	DI	SAI	YES
A	42	29	SPH6	0.00	DI	NDD	NO
A	42	29	SPH5	0.00	DI	NDD	
A	42	34	SPH4	0.00	DI	NDD	NO
A	42	36	SPH4	0.00	DI	SAI	YES
A	42	36	SPH6	0.00	DI	NDD	
A	43	39	SPH3	0.00	DI	NDD	NO
A	43	41	SPH5	0.00	DI	SAI	YES
A	43	48	SPH3	0.00	DI	MAI	YES
A	43	48	SPH4	0.00	DI	MAI	
A	43	48	SPH5	0.00	DI	MAI	
A	43	48	SPH6	0.00	DI	NDD	
A	43	50	SPH5	0.00	DI	NDD	NO
A	43	51	SPH5	0.00	DI	NDD	NO
A	44	33	SPH6	0.00	DI	NDD	NO
A	45	52	SPH5	0.00	DI	NDD	NO
B	1	5	SPH7	3.21	----	SAI	YES**
B	1	7	SPH7	8.95	----	SAI	YES**
B	1	8	SPH7	9.15	----	MAI	YES**
B	1	11	SPH7	8.67	----	MAI	YES**
B	1	12	SPH7	8.91	----	MAI	YES**
B	1	18	SPH7	8.06	----	MAI	YES**
B	1	19	SPH7	9.56	----	MAI	YES**
B	1	24	SPH7	9.89	----	SAI	YES**
B	1	25	SPH7	3.54	----	SAI	YES**
B	1	29	SPH7	8.62	----	MAI	YES**
B	1	30	SPH7	3.19	----	MAI	YES**
B	1	38	SPH7	8.92	----	SAI	YES**
B	1	47	SPH7	8.33	----	SAI	YES**
B	1	51	SPH7	2.69	----	COI	YES**
B	1	52	SPH7	2.84	----	SAI	YES**
B	1	53	SPH7	3.55	----	SAI	YES**
B	1	54	SPH7	2.75	----	SAI	YES**
B	1	57	SPH7	3.77	----	MAI	YES**
B	1	59	SPH7	3.62	----	SAI	YES**
B	1	60	SPH7	3.33	----	SAI	YES**
B	1	61	SPH7	3.35	----	SAI	YES**
B	1	67	SPH7	3.48	----	SAI	YES**
B	2	51	SPH4	0.00	DI	NDD	NO
B	2	52	TEH	20.96	DI	SAI	YES
B	2	66	TSH	0.00	NDD	SAI	YES

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
B	2	81	TSC	2.80	23		NO
B	2	84	TSH	0.90	NDD	SAI	YES
B	3	2	SPC1	-0.16	28		NO
B	3	2	SPC7	0.05	35		
B	3	2	SPH3	0.00	DI	NDD	
B	3	2	SPH2	0.00	DI	NDD	
B	3	2	SPH4	0.00	DI	NDD	
B	3	58	TSC	3.60	27		NO
B	4	22	TEH	21.32	NDD	SAI	YES
B	5	2	SPH4	0.00	DI	NDD	NO
B	5	37	TSH	1.03	<20		NO
B	5	40	SPH3	0.00	DI	NDD	NO
B	6	3	SPH3	0.00	DI	NDD	NO
B	6	4	SPH5	0.00	DI	NDD	NO
B	6	11	SPH2	0.00	DI	NDD	NO
B	6	22	SPH4	0.00	DI	NDD	NO
B	7	1	SPH4	0.00	DI	NDD	NO
B	7	1	SPH3	0.00	DI	NDD	
B	7	52	SPH4	0.00	DI	NDD	NO
B	7	65	SPH1	0.00	DI	SAI	YES
B	7	68	TSH	-0.10	NDD	COI	YES
B	7	69	TSH	-0.24	NDD	COI	YES
B	8	22	TSH	4.72	28		NO
B	9	70	SPH1	0.00	DI	SAI	YES
B	10	4	SPH4	0.00	DI	NDD	NO
B	10	6	SPH5	0.00	DI	NDD	NO
B	10	6	SPH4	0.00	DI	NDD	
B	10	32	TSC	4.49	<20		NO
B	10	71	SPH3	0.00	DI	NDD	NO
B	10	86	SPH5	0.00	DI	SAI	YES
B	12	8	SPC1	0.00	<20		NO
B	13	4	TSH	3.81	<20		NO
B	13	7	SPH5	0.00	DI	NDD	NO
B	13	29	SPH2	0.00	DI	NDD	NO
B	14	3	SPH5	0.00	DI	NDD	NO
B	14	28	TEH	20.94	NDD	SAI	YES
B	15	3	SPH3	0.00	DI	NDD	NO
B	15	6	SPH4	0.00	DI	NDD	NO
B	15	12	SPH2	0.00	DI	NDD	NO
B	15	69	SPH1	0.00	DI	MAI	YES
B	15	81	SPH4	0.00	DI	SAI	YES
B	15	81	SPH1	0.00	DI	NDD	
B	15	81	SPH6	0.00	DI	NDD	
B	15	82	SPH6	0.00	DI	NDD	NO
B	15	82	SPH5	0.00	DI	NDD	
B	16	6	SPH3	0.00	DI	NDD	NO
B	16	21	TSH	1.57	DI	NDD	NO
B	16	33	SPH2	0.00	DI	NDD	NO

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
B	17	4	SPH4	0.00	DI	NDD	NO
B	17	11	AV2	12.61	34		NO
B	17	11	AV2	1.21	26		
B	17	14	TSH	0.94	<20		NO
B	17	30	SPH3	0.00	DI	NDD	NO
B	17	58	AV2	12.43	28		NO
B	17	59	SPH1	0.00	DI	NDD	NO
B	18	10	TSH	1.24	<20		NO
B	18	21	TSH	0.73	DI	SAI	YES
B	18	21	TSH	1.58	29		
B	18	23	SPH3	0.00	DI	NDD	NO
B	18	26	TSH	-0.25	NDD	COI	YES
B	18	71	SPH2	0.00	DI	NDD	NO
B	18	72	SPH4	0.00	DI	SAI	YES
B	18	74	TSH	3.37	<20		NO
B	18	75	SPH1	0.00	DI	SAI	YES
B	18	78	SPH4	0.00	DI	SAI	YES
B	18	79	SPH4	0.00	DI	SAI	YES
B	19	6	SPH3	0.00	DI	NDD	NO
B	19	11	SPH2	0.00	76	SAI	YES
B	19	19	SPH4	0.00	DI	NDD	NO
B	19	85	SPH5	0.00	DI	NDD	NO
B	20	19	SPH4	0.00	DI	NDD	NO
B	20	23	TSH	1.34	DI	SAI	YES
B	21	14	TSH	1.93	<20		NO
B	21	24	SPH7	24.68	30		NO
B	21	28	TSC	2.43	<20		NO
B	22	14	SPH1	0.00	40	SAI	YES
B	22	16	AV2	2.43	26		NO
B	22	16	AV4	3.43	24		
B	22	21	TEH	21.27	NDD	SAI	YES
B	22	23	SPH4	0.00	DI	NDD	NO
B	22	33	TSC	4.54	<20		NO
B	22	35	SPH1	0.00	DI	NDD	NO
B	22	43	TSC	5.60	<20		NO
B	22	44	TSC	3.20	<20		NO
B	22	52	SPH1	0.00	DI	NDD	NO
B	22	61	SPH1	0.00	DI	NDD	NO
B	22	68	TSC	3.26	24		NO
B	23	41	SPH1	0.00	<20		NO
B	23	52	TSC	5.94	<20		NO
B	24	37	TSH	0.95	DI	NDD	NO
B	24	49	TSC	4.80	<20		NO
B	24	55	TSH	1.17	NDD	SAI	YES
B	24	60	TSH	1.33	NDD	SAI	YES
B	24	65	SPH2	0.00	DI	SAI	YES
B	24	73	AV3	-0.31	39		NO
P	24	73	AV2	21.10	39		

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
B	24	75	SPH4	0.00	DI	NDD	NO
B	24	83	SPH4	0.00	DI	SAI	YES
B	25	67	SPH4	0.00	DI	SAI	YES
B	25	73	SPH1	0.00	55	SAI	YES
B	25	75	TEH	17.90	DI	SAI	YES
B	26	14	TSH	1.76	<20		NO
B	26	43	TSC	2.73	<20		NO
B	26	67	SPH5	0.00	73	SAI	YES
B	27	47	SPH3	0.00	DI	NDD	NO
B	27	52	TSH	0.69	DI	SAI	YES
B	27	52	TSC	5.58	<20		
B	27	57	AV2	23.78	34		NO
B	27	63	AV2	1.69	38		NO
B	27	63	SPH7	28.92	37		
B	27	63	AV3	0.00	34		
B	27	80	SPH5	0.00	DI	NDD	NO
B	28	28	TEH	20.26	DI	SAI	YES
B	28	53	TSH	3.56	<20		NO
B	28	51	AV2	23.94	33		NO
B	29	14	TSH	2.21	<20		NO
B	29	78	SPH3	0.00	DI	NDD	NO
B	30	80	SPH2	0.00	62	SAI	YES
B	31	64	SPH3	22.00	24		NO
B	31	64	SPH3	30.84	26		
B	32	70	AV4	3.46	26		NO
B	32	76	SPH6	0.00	DI	SAI	YES
B	32	76	SPH5	0.00	DI	NDD	
B	33	47	SPH3	0.00	DI	NDD	NO
B	33	62	SPH4	0.00	DI	SAI	YES
B	34	17	SPH3	0.00	DI	NDD	NO
B	34	24	SPH3	0.00	DI	NDD	NO
B	34	29	TEH	20.43	NDD	SAI	YES
B	34	60	SPH3	0.00	DI	SAI	YES
B	34	60	SPH5	0.00	DI	NDD	
B	34	75	SPH5	0.00	DI	NDD	NO
B	34	75	SPH4	0.00	DI	NDD	
B	35	39	SPH2	0.00	DI	NDD	NO
B	35	60	SPH5	0.00	DI	NDD	NO
B	35	60	SPH2	0.00	DI	NDD	
B	35	65	SPH3	0.00	DI	NDD	NO
B	35	65	SPH1	0.00	DI	NDD	
B	35	65	SPH4	0.00	DI	NDD	
B	35	65	SPH5	0.00	DI	NDD	
B	35	66	SPH4	0.00	DI	MAI	YES
B	35	73	SPH4	0.00	DI	SAI	YES
B	35	73	SPH3	0.00	DI	NDD	
B	36	19	SPH3	0.00	DI	NDD	NO
B	36	23	SPH3	0.00	63	AI	YES



TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
B	36	23	SPH2	0.00	DI	NDD	
B	36	39	SPH5	0.00	DI	NDD	NO
B	37	30	SPH3	0.00	DI	NDD	NO
B	37	35	SPH3	0.00	DI	NDD	NO
B	37	72	SPH3	0.00	DI	NDD	NO
B	37	75	TSH	0.27	NDD	SAI	YES
B	38	25	SPH3	0.00	DI	NDD	NO
B	38	26	SPH4	0.00	DI	NDD	NO
B	38	27	SPH3	0.00	DI	NDD	NO
B	38	27	SPH1	0.00	DI	NDD	
B	38	27	SPH4	0.00	DI	NDD	
B	38	27	SPH7	0.00	DI	NDD	
B	38	28	SPH4	0.00	DI	NDD	NO
B	38	29	SPH3	0.00	DI	NDD	NO
B	38	29	SPH2	0.00	DI	NDD	
B	38	30	SPH3	0.00	DI	NDD	NO
B	38	34	SPH6	0.00	DI	NDD	NO
B	38	35	SPH3	0.00	DI	NDD	NO
B	38	35	SPH4	0.00	DI	NDD	
B	38	44	SPH2	0.00	DI	NDD	NO
B	38	60	AV2	35.41	32		NO
B	38	71	SPH4	0.00	DI	NDD	NO
B	39	25	SPH2	0.00	DI	NDD	NO
B	39	30	SPH3	0.00	DI	NDD	NO
B	39	30	SPH4	0.00	DI	NDD	
B	39	39	SPH4	0.00	DI	NDD	NO
B	40	29	SPH5	0.00	DI	NDD	NO
B	40	29	SPH3	0.00	DI	NDD	
B	40	44	SPH4	0.00	DI	NDD	NO
B	40	57	SPH3	0.00	DI	NDD	NO
B	40	63	SPH4	0.00	DI	NDD	NO
B	40	66	SPH3	0.00	DI	NDD	NO
B	41	32	SPH2	0.00	DI	NDD	NO
B	41	32	SPH5	0.00	DI	NDD	
B	41	34	SPH4	0.00	DI	NDD	NO
B	41	39	SPH2	0.00	DI	NDD	NO
B	41	50	SPH2	0.00	DI	NDD	NO
B	41	50	SPH4	0.00	DI	NDD	
B	42	32	SPH2	0.00	DI	NDD	NO
B	42	32	SPH6	0.00	DI	NDD	
B	42	32	SPH5	0.00	DI	NDD	
B	43	41	SPH5	0.00	DI	NDD	NO
B	43	43	SPH2	0.00	DI	MAI	YES
B	43	54	SPH3	0.00	DI	NDD	NO
B	43	54	SPH4	0.00	DI	NDD	
B	43	61	SPH3	0.00	DI	NDD	NO
B	44	39	SPH2	0.00	DI	NDD	NO
B	45	52	SPH4	0.00	DI	NDD	NO

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
C	1	12	SPH7	10.66	----	MAI	YES**
C	1	26	SPH7	10.77	----	SAI	YES**
C	1	27	SPH7	10.74	DI	MAI	YES**
C	1	28	SPH7	10.73	----	SAI	YES**
C	1	31	SPH7	10.57	----	SAI	YES**
C	1	34	SPH7	6.70	----	COI	YES**
C	1	34	SPH7	10.44	----	MAI	YES**
C	1	34	SPH7	7.20	----	NDD	YES**
C	1	38	SPH7	6.30	----	COI	YES**
C	1	38	SPH7	9.85	----	SAI	YES**
C	1	41	SPH7	10.00	----	SAI	YES**
C	1	68	SPH7	3.67	----	MAI	YES**
C	1	70	SPH7	6.24	DI	NDD	NO
C	1	70	SPH7	6.24	----	COI	YES**
C	1	70	SPH7	7.77	----	COI	YES**
C	1	78	SPH7	3.49	----	SAI	YES**
C	2	1	SPH3	0.00	DI	NDD	NO
C	2	1	SPH2	0.00	DI	NDD	
C	2	14	SPH1	0.00	DI	MAI	YES
C	2	21	TSH	3.16	35		NO
C	2	31	SPH3	0.00	DI	NDD	NO
C	2	39	TSC	4.74	<20		NO
C	3	1	SPH2	0.00	DI	NDD	NO
C	3	4	SPH2	0.00	DI	NDD	NO
C	3	4	SPH4	0.00	DI	NDD	
C	3	18	TEH	20.93	NDD	SAI	YES
C	3	38	TSH	1.52	DI	SAI	YES
C	3	57	TSC	2.95	20		NO
C	3	62	TEH	19.48	NDD	SAI	YES
C	3	82	TSH	0.85	<20		NO
C	4	1	SPH5	0.00	DI	NDD	NO
C	4	4	SPH4	0.00	DI	NDD	NO
C	4	22	TSH	-0.18	NDD	COI	YES
C	4	22	SPH3	0.00	DI	SAI	
C	4	29	TSH	1.24	39		NO
C	4	31	TSH	1.16	37		NO
C	4	45	TSC	4.43	<20		NO
C	4	48	TSH	2.22	30		NO
C	4	69	TSC	3.88	24		NO
C	4	69	TSC	2.99	<20		
C	4	82	SPH2	0.00	DI	NDD	NO
C	5	4	SPH3	0.00	DI	NDD	NO
C	5	4	SPH4	0.00	DI	NDD	
C	5	6	SPH4	0.00	DI	NDD	NO
C	5	8	SPH7	15.88	<20		NO
C	5	8	SPH7	17.57	24		
C	5	8	SPH7	19.08	23		
C	5	17	TSH	0.00	NDD	COI	YES



TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
C	5	18	TSH	8.19	36		NO
C	5	27	TSH	7.03	29		NO
C	5	29	TSH	4.80	49	SAI	YES
C	5	30	TSH	1.96	22		NO
C	5	35	TSH	3.73	29		NO
C	5	71	TSC	2.43	<20		NO
C	5	78	TSH	1.92	<20		NO
C	5	84	TEH	20.95	NDD	SAI	YES
C	6	1	SPH3	0.00	DI	NDD	NO
C	6	4	SPH4	0.00	DI	NDD	NO
C	6	8	SPH2	0.00	DI	NDD	NO
C	6	10	SPH7	9.23	26		NO
C	6	11	SPH3	0.00	DI	NDD	NO
C	6	14	TSH	2.84	51	SAI	YES
C	6	21	TSH	5.39	27		NO
C	6	36	TSH	3.52	29	NDD	NO
C	6	37	TSH	2.93	57	MAI	YES
C	6	48	TSC	4.11	<20		NO
C	6	68	TSH	1.53	24		NO
C	7	14	SPH4	0.00	DI	NDD	NO
C	7	25	TSH	2.06	DI	SAI	YES
C	7	27	TSH	6.54	<20		NO
C	7	43	TSC	3.74	<20		NO
C	7	88	SPH5	0.00	DI	NDD	NO
C	8	5	SPH3	0.00	DI	NDD	NO
C	8	5	SPH4	0.00	DI	NDD	NO
C	8	13	SPH3	0.00	DI	NDD	NO
C	8	13	SPH4	0.00	DI	NDD	NO
C	8	30	TSH	3.26	DI	SAI	YES
C	8	32	TSC	5.87	<20		NO
C	8	60	TSH	0.00	NDD	COI	YES
C	8	72	TSH	1.48	<20		NO
C	9	5	SPH2	0.00	DI	NDD	NO
C	9	5	SPH4	0.00	DI	NDD	NO
C	9	9	SPH2	0.00	DI	NDD	NO
C	9	14	TEH	21.11	NDD	SAI	YES
C	9	16	TSH	2.20	DI	NDD	NO
C	9	26	TSC	6.08	<20		NO
C	9	27	TSH	2.89	27	SAI	YES
C	9	27	TSH	3.58	DI	NDD	NO
C	9	31	TSC	4.78	<20		NO
C	9	33	TSH	2.29	35	NDD	NO
C	9	43	TSH	3.79	37		NO
C	9	47	TSC	3.85	25		NO
C	9	53	SPH3	0.00	DI	NDD	NO
C	9	61	TSC	3.95	<20		NO
C	9	74	TSH	2.19	<20		NO
C	10	3	SPH2	0.00	64	MAI	YES

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
C	10	3	SPH5	0.00	DI	NDD	
C	10	4	SPH3	0.00	DI	NDD	NO
C	10	7	SPH3	0.00	DI	NDD	NO
C	10	10	SPH4	0.00	DI	NDD	NO
C	10	15	SPH5	0.00	DI	NDD	NO
C	10	15	SPH4	0.00	DI	NDD	
C	10	23	TSH	7.19	<20		NO
C	10	23	TSH	7.98	<20		
C	10	24	TSH	5.11	29		NO
C	10	30	TSH	3.90	39		NO
C	10	33	SPH2	0.00	DI	NDD	NO
C	10	35	MEH	21.15	NDD	SAI	YES
C	10	59	TSC	3.98	<20		NO
C	10	59	TSC	5.50	<20		
C	10	76	SPH4	0.00	DI	NDD	NO
C	10	79	SPH1	0.00	DI	NDD	NO
C	11	2	SPC1	0.00	37		NO
C	11	4	SPH4	0.00	DI	NDD	NO
C	11	5	SPH1	0.00	DI	NDD	NO
C	11	5	SPH4	0.00	DI	NDD	
C	11	17	TSH	1.31	<20		NO
C	11	18	SPH1	0.00	DI	NDD	NO
C	11	48	TSH	0.80	DI	SAI	YES
C	11	53	SPH5	0.00	DI	NDD	NO
C	11	53	SPH4	0.00	DI	NDD	
C	11	58	TSC	4.60	<20		NO
C	12	20	TSH	2.66	<20		NO
C	12	22	TSH	7.26	31		NO
C	12	27	TSH	-0.11	NDD	COI	YES
C	12	58	TSC	4.60	<20		NO
C	13	3	SPH5	0.00	DI	SAI	YES
C	13	6	SPH4	0.00	DI	NDD	NO
C	13	21	TSH	-0.03	NDD	COI	YES
C	13	25	TSH	-0.13	NDD	COI	YES
C	13	26	SPH1	0.00	DI	NDD	NO
C	13	37	SPH7	20.87	32		NO
C	13	57	TSH	0.93	DI	NDD	NO
C	13	81	SPH1	0.00	DI	NDD	NO
C	14	5	SPH4	0.00	DI	NDD	NO
C	14	12	SPH4	0.00	DI	SAI	YES
C	14	27	TSH	4.33	26		NO
C	14	45	TSC	4.30	<20		NO
C	15	4	SPH4	0.00	DI	NDD	NO
C	15	21	TSH	3.12	<20		NO
C	15	25	TSH	4.78	<20		NO
C	15	33	TSH	2.81	NDD	SAI	YES
C	15	61	TSH	1.72	43	SAI	YES
C	15	61	TSH	2.00	DI	NDD	

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND. * RPC	PLUGGED
C	15	66	TSH	2.12	27		NO
C	15	68	SPH1	0.00	DI	NDD	NO
C	16	7	SPH6	0.00	DI	NDD	NO
C	16	15	SPH1	0.00	77	SAI	YES
C	16	23	TSH	-0.09	NDD	COI	YES
C	16	24	TSH	-0.18	NDD	COI	YES
C	16	50	TSC	3.69	21		NO
C	17	35	TSH	2.57	DI	NDD	NO
C	17	48	TSC	5.99	<20		NO
C	17	49	TSC	4.55	<20		NO
C	17	52	SPH1	0.00	DI	NDD	NO
C	18	5	SPH4	0.00	DI	NDD	NO
C	18	6	SPH3	0.00	DI	NDD	NO
C	18	28	TSH	1.50	DI	SAI	YES
C	18	40	TSH	1.17	DI	SAI	YES
C	18	58	TSH	1.32	<20		NO
C	18	64	SPH5	0.00	DI	NDD	NO
C	19	8	SPH2	0.00	DI	NDD	NO
C	19	9	SPH1	0.00	DI	NDD	NO
C	19	17	SPH4	0.00	DI	NDD	NO
C	19	53	TSH	3.71	22		NO
C	20	9	SPH3	0.00	DI	NDD	NO
C	20	24	TSH	2.17	29		NO
C	20	25	TSH	-0.13	NDD	COI	YES
C	20	29	TSH	3.02	<20		NO
C	20	31	TSH	1.58	30		NO
C	20	53	TSH	3.10	<20		NO
C	20	58	TSH	2.22	<20		NO
C	20	69	SPH1	0.00	DI	MAI	YES
C	20	69	TSH	1.40	<20		
C	21	24	TSH	2.25	DI	MAI	YES
C	21	28	TSH	3.76	26		NO
C	21	38	SPH3	0.00	DI	NDD	NO
C	21	42	TEH	19.56	DI	SAI	YES
C	22	7	SPH3	0.00	DI	NDD	NO
C	22	9	SPH4	0.00	DI	NDD	NO
C	22	10	SPH4	0.00	DI	NDD	NO
C	22	12	SPH3	0.00	DI	NDD	NO
C	22	12	SPH2	0.00	DI	NDD	
C	22	14	SPH2	0.00	DI	NDD	NO
C	22	25	TSH	3.07	NDD	SAI	YES
C	22	25	TSH	-0.08	NDD	COI	
C	22	31	SPH3	0.00	DI	NDD	NO
C	22	31	TSH	2.16	DI	NDD	
C	22	35	SPH3	0.00	DI	NDD	NO
C	22	38	TSH	2.83	32	NDD	NO
C	22	47	TSH	2.55	DI	SAI	YES
C	22	49	TSH	3.57	<20		NO

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (")	IND.* RPC	PLUGGED
C	22	77	SPH4	0.00	DI	NDD	NO
C	22	77	SPH3	0.00	DI	NDD	
C	23	25	TEH	20.84	DI	SAI	YES
C	23	26	TSH	2.48	36		NO
C	23	26	TSH	2.10	22		
C	23	33	TSH	1.33	DI	NDD	NO
C	23	33	SPH3	0.00	DI	NDD	
C	23	48	TSH	0.45	DI	SAI	YES
C	23	50	TSH	2.64	28		NO
C	23	59	TSH	2.33	22		NO
C	23	75	SPH1	0.00	DI	NDD	NO
C	23	76	SPH6	0.00	DI	NDD	NO
C	23	83	SPH4	0.00	DI	SAI	YES
C	23	88	SPH4	0.00	DI	NDD	NO
C	24	9	TSH	2.00	NDD	SAI	YES
C	24	25	TSH	1.23	<20		NO
C	24	25	TSH	1.86	<20		
C	24	30	SPC2	-0.06	<20		NO
C	24	31	TSH	2.43	55	MAI	YES
C	24	33	TSH	2.59	52	NDD	YES
C	24	33	TSH	1.92	53	MAI	
C	24	33	SPH3	0.00	DI	NDD	
C	24	58	SPH1	0.00	DI	SAI	YES
C	24	82	SPH4	0.00	DI	NDD	NO
C	25	25	TSH	1.27	DI	NDD	NO
C	25	26	TSH	1.82	25		NO
C	25	28	TSH	2.32	26		NO
C	25	33	TSH	1.78	31	NDD	NO
C	25	35	TSH	2.08	69	SAI	YES
C	25	38	TSH	2.79	36		NO
C	25	40	TSH	1.82	33		NO
C	25	48	TSH	0.82	DI	SAI	YES
C	25	77	SPH4	0.00	DI	NDD	NO
C	26	10	SPH3	0.00	DI	NDD	NO
C	26	26	TSH	0.77	DI	NDD	NO
C	26	32	TSH	1.76	DI	NDD	NO
C	26	38	TSH	2.09	27		NO
C	26	38	TSH	2.90	<20		
C	26	40	TSH	1.95	DI	SAI	YES
C	26	40	TSH	2.28	26		
C	26	76	SPH6	0.00	DI	NDD	NO
C	26	82	SPH5	0.00	DI	NDD	NO
C	27	12	SPH4	0.00	DI	NDD	NO
C	27	12	SPH3	0.00	DI	NDD	
C	27	33	TSH	1.40	26	NDD	NO
C	27	40	TSH	2.40	36		NO
C	27	79	SPH4	0.00	DI	NDD	NO
C	28	14	SPH3	0.00	DI	NDD	NO

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND. * RPC	PLUGGED
C	28	23	TSH	1.02	<20		NO
C	28	48	TSH	1.10	DI	SAI	YES
C	28	67	SPH5	0.00	DI	NDD	NO
C	28	79	SPH2	0.00	DI	NDD	NO
C	28	80	SPH5	0.00	DI	NDD	NO
C	28	83	SPH2	0.00	DI	NDD	NO
C	29	20	SPH5	0.00	DI	NDD	NO
C	29	75	SPC3	0.00	22		NO
C	29	78	SPH3	0.00	DI	NDD	NO
C	29	80	SPH3	0.00	DI	NDD	NO
C	30	14	SPH3	0.00	DI	NDD	NO
C	30	20	SPH3	0.00	DI	NDD	NO
C	30	21	TSH	0.00	NDD	SAI	YES
C	30	44	SPH2	0.00	DI	NDD	NO
C	30	47	SPH3	0.00	DI	NDD	NO
C	30	80	SPH5	0.00	DI	NDD	NO
C	31	16	SPH4	0.00	DI	NDD	NO
C	31	17	SPH5	0.00	DI	NDD	NO
C	31	22	TEH	20.70	NDD	SAI	YES
C	31	28	SPH4	0.00	DI	NDD	NO
C	31	50	TSH	2.97	22		NO
C	32	20	SPH2	0.00	DI	NDD	NO
C	32	27	SPH3	0.00	DI	NDD	NO
C	32	28	TSH	3.22	24		NO
C	32	28	TSH	1.46	25		
C	32	56	AV2	3.20	30		NO
C	33	16	SPH7	0.00	DI	NDD	NO
C	33	18	SPH5	0.00	DI	NDD	NO
C	33	32	TSH	4.07	<20		NO
C	33	34	SPH2	0.00	DI	NDD	NO
C	33	40	SPH4	0.00	DI	NDD	NO
C	33	40	SPH2	0.00	DI	NDD	
C	33	74	SPH3	0.00	DI	NDD	NO
C	33	75	SPH3	0.00	DI	NDD	NO
C	34	24	TSH	5.33	21		NO
C	34	27	SPH3	0.00	DI	NDD	NO
C	34	28	SPH3	0.00	DI	NDD	NO
C	34	43	SPH1	0.00	DI	NDD	NO
C	34	76	TSH	0.69	<20		NO
C	35	17	SPH3	0.00	DI	NDD	NO
C	35	17	SPH5	0.00	DI	NDD	
C	35	17	SPH2	0.00	DI	NDD	
C	35	18	SPH5	0.00	DI	NDD	NO
C	35	18	SPH4	0.00	DI	NDD	
C	35	18	SPH2	0.00	DI	NDD	
C	35	19	SPH5	0.00	DI	NDD	NO
C	35	50	SPH2	0.00	DI	NDD	NO
C	36	27	SPH3	0.00	DI	NDD	NO



TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
C	37	19	SPH4	0.00	DI	NDD	NO
C	37	40	SPH4	0.00	DI	NDD	NO
C	37	75	SPH3	0.00	DI	NDD	NO
C	38	21	SPH7	0.00	DI	NDD	NO
C	38	21	SPH6	0.00	DI	NDD	
C	38	21	SPH5	0.00	DI	NDD	
C	38	22	SPH3	0.00	DI	NDD	NO
C	38	22	SPH5	0.00	DI	NDD	
C	38	22	SPH1	0.11	<20		
C	38	25	SPH4	0.00	DI	NDD	NO
C	38	27	SPH4	0.00	DI	NDD	NO
C	38	27	SPH3	0.00	DI	NDD	
C	38	28	SPH2	0.00	DI	NDD	NO
C	38	34	SPH2	0.00	DI	NDD	NO
C	38	35	SPH2	0.00	DI	NDD	NO
C	38	40	SPH3	0.00	DI	NDD	NO
C	38	41	SPH4	0.00	DI	SAI	YES
C	38	41	SPH5	0.00	DI	NDD	
C	38	45	SPH2	0.00	DI	NDD	NO
C	39	26	SPH3	0.00	DI	NDD	NO
C	39	30	SPH5	0.00	DI	NDD	NO
C	39	31	SPH5	0.00	DI	SAI	YES
C	39	33	SPH5	0.00	DI	NDD	NO
C	39	35	SPH5	0.00	DI	NDD	NO
C	39	35	SPH2	0.00	DI	NDD	
C	39	35	SPH3	0.00	DI	NDD	
C	39	36	SPH2	0.00	DI	NDD	NO
C	39	48	SPH3	0.00	DI	NDD	NO
C	39	59	SPH2	0.00	DI	NDD	NO
C	39	69	SPH2	0.00	DI	NDD	NO
C	40	24	SPH3	0.00	DI	NDD	NO
C	40	27	SPH3	0.00	DI	NDD	NO
C	40	30	SPH4	0.00	DI	NDD	NO
C	40	31	SPH3	0.00	DI	NDD	NO
C	40	31	SPH4	0.00	DI	NDD	
C	40	33	SPH1	0.00	DI	SAI	YES
C	40	36	SPH4	0.00	DI	NDD	NO
C	40	36	SPH3	0.00	DI	NDD	
C	40	49	SPH2	0.00	DI	NDD	NO
C	40	52	SPH4	0.00	DI	NDD	NO
C	40	59	SPH5	0.00	DI	NDD	NO
C	40	61	SPH2	0.00	DI	NDD	NO
C	40	61	SPH4	0.00	DI	NDD	
C	41	27	SPH5	0.00	DI	NDD	NO
C	41	29	SPH3	0.00	DI	NDD	NO
C	41	32	SPH4	0.00	DI	NDD	NO
C	41	37	SPH3	0.00	DI	NDD	NO
C	41	39	SPH2	0.00	DI	NDD	NO

TABLE 1

S/G	ROW	COL	REF. POINT	DISTANCE FROM REF. POINT	WALL PENETRATION THICKNESS (%)	IND.* RPC	PLUGGED
C	41	43	SPH2	0.00	DI	NDD	NO
C	41	49	SPH4	0.00	DI	NDD	NO
C	41	49	SPH2	0.00	DI	NDD	
C	41	53	SPH3	0.00	DI	NDD	NO
C	41	57	SPH4	0.00	DI	NDD	NO
C	41	67	SPH3	0.00	DI	NDD	
C	42	35	SPH2	0.00	DI	SAI	YES
C	42	35	SPH3	0.00	DI	NDD	
C	42	48	SPH3	0.00	DI	NDD	NO
C	42	56	SPH2	0.00	DI	SAI	YES
C	42	56	SPH4	0.00	DI	NDD	
C	42	56	SPH3	0.00	DI	NDD	
C	42	61	SPH4	0.00	DI	SAI	YES
C	42	61	SPH7	0.00	DI	NDD	
C	42	61	SPH5	0.00	DI	NDD	
C	42	62	SPH5	0.00	DI	NDD	NO
C	42	63	SPH3	0.00	DI	NDD	NO
C	42	65	SPH3	0.00	DI	SAI	YES
C	43	41	SPH3	0.00	DI	SAI	YES
C	43	41	SPH1	0.00	DI	NDD	
C	43	43	SPH2	0.00	DI	MAI	YES
C	43	51	SPH5	0.00	DI	NDD	NO
C	43	54	SPH5	0.00	DI	NDD	NO
C	44	33	TSH	0.97	<20		NO
C	44	34	SPH4	0.00	DI	NDD	NO
C	44	34	SPH3	0.00	DI	NDD	
C	44	34	SPH5	0.00	DI	NDD	
C	45	44	SPH1	0.00	DI	SAI	YES
C	45	44	SPH5	0.00	DI	SAI	
C	45	51	SPH2	0.00	DI	NDD	NO
C	45	52	SPH3	0.00	DI	NDD	NO
C	46	43	SPH5	0.00	DI	NDD	NO
C	46	45	SPH2	0.00	DI	NDD	NO
C	46	49	SPH4	0.00	DI	NDD	NO
C	46	51	SPH1	0.00	DI	NDD	NO
C	46	52	SPH4	0.00	DI	NDD	NO
C	46	52	SPH3	0.00	DI	NDD	

\* Non-quantifiable indications were characterized with the RPC and preventively plugged.

\*\* Row 1 tubes which were unplugged and plugged for the indication noted.



TAB C

EXAMINATION PROGRAM

- I. Balance-of-Plant ISI Outage Program
- II. Steam Generator Eddy Current Program

DATE:3/15/91

ALABAMA POWER COMPANY  
J.M. FARLEY NUCLEAR PLANT  
UNIT NO. 1  
INSERVICE INSPECTION  
INTERVAL-2 PERIOD-1 OUTAGE-3

All items and areas listed below are planned to be examined as indicated, in accordance with the requirements of the plant Technical Specifications Section 4.0.3 which is based on the 1983 Edition, Section XI of the ASME Boiler and Pressure Vessel Code up to and including Summer, 1983 Addenda.

CODE ITEM	ALA SKETCH REF	EXAMINATION ITEM/AREA	PROCEDURE	NOTE
RHR HEAT EXCHANGER A				
C2.31	2-3500	3	PT-001	1
CLASS 1 SUPPORTS				
F2.30	F-1000	65 1-4105	VT-003	2
CLASS 2 SUPPORTS				
F2.10	F-2000	273 2-1110	VT-003	2
F2.10	F-2000	276 2-1120	VT-003	2
F2.10	F-2000	315 2-1120	VT-003	2
F2.10	F-2000	318 2-1120	VT-003	2

## NOTES

1.Examination boundaries per FNP-FIG 027. To assure uniformity in the manner in which all indications are recorded during the performance of this exam any indications shall be adequately described in such a manner that subsequent relocation of the area can be achieved within an accuracy of 0.5 inches. The indication shall be noted as "x" inches clockwise from a datum point. This datum point shall be at due north as the inspector faces the outlet nozzle on the Hx looking from above. A detailed location sketch will be provided of all indications.

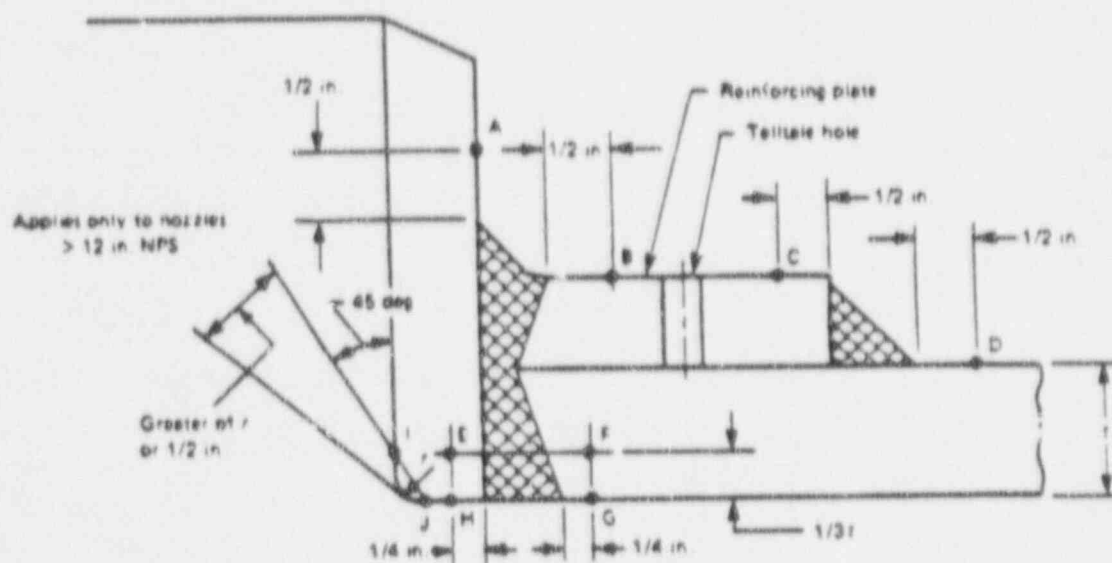
2. Examination boundaries per FNP-FIG 037 and hanger sketch. All indications shall be adequately described in such a manner that relocation of the indication can be achieved during subsequent exams.

APPROVED BY:



APCO COORDINATOR

## EXAMINATION VOLUME/SURFACE

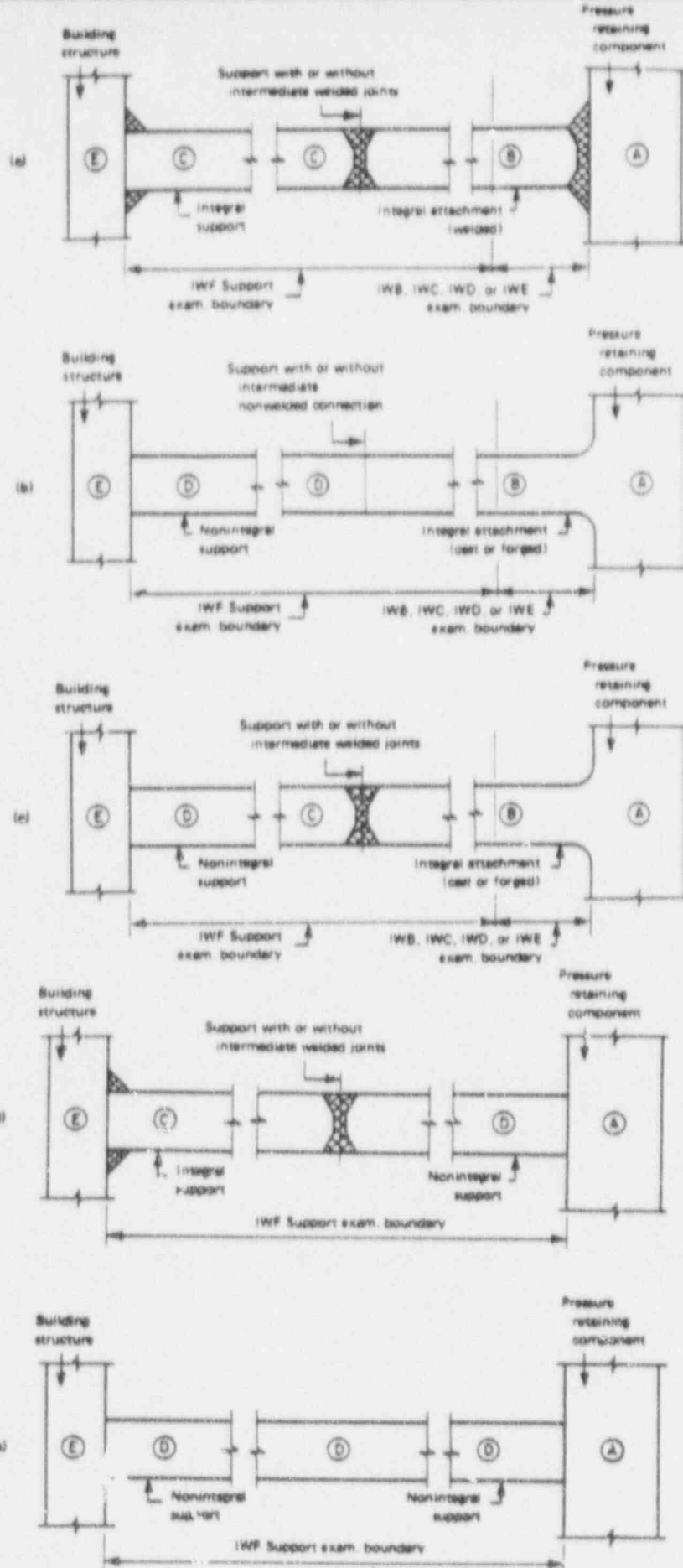


Exam. Surf. A - B and C - D  
Exam. Vol. E - F - G - H and I - J

(c)

NOZZLE-TO-VESSEL WELDS (CONT'D)

FNP FIG. 027



ALABAMA POWER COMPANY  
J. M. FARLEY NUCLEAR PLANT UNIT NO. 1  
STEAM GENERATOR EDDY CURRENT PROGRAM  
INTERVAL-2 PERIOD-1 OUTAGE-3

During the J. M. Farley Unit No. 1 refueling outage, the Steam Generator Services Group of Westinghouse Nuclear Services Division (WNSD) provided services which included a program of eddy current inspection, helium leak detection, mechanical plugging, hydraulic plug removal, and plug removal by machining. All applicable procedures, personnel qualification, equipment calibrations, standard certifications, sign-off sheets and supporting data can be found in the Field Service Report MRS 4.4 ALA-24 S/G Primary Side Services. The Conam report entitled Eddy Current Data Review for March and April, 1991 includes this information for their independent review of the Westinghouse eddy current data.

Eddy Current Inspection

Eddy Current

A multi-frequency eddy current inspection was performed in steam generators A, B, and C. 100% of the tubes were inspected with a bobbin probe. All row 1 and 2 U-Bends were inspected with a U-Bend motorized rotating pancake coil (MRPC) probe. 100% of the hot leg top of tubesheet and distorted indications were also tested with a MRPC probe. Analysis of the eddy current data indicated pluggable indications in the hot leg at both the top of tubesheet and at the support plate intersections. Data analysis indicated that the orientation of some of the indications at the top of the tubesheet to be circumferential.

Description

The intent of the inspection plan was to ensure that the utility met the Technical Specification requirements for steam generator eddy current testing. By definition, not all steam generators had to be inspected however, Alabama Power Company decided to test 100% of all steam generator tubing. The utility had a specific concern of stress corrosion cracking in the hot leg at the top of tubesheet Wextex expansion transition, and at support plate locations. Additionally, they had a similar concern in the row 1 and 2 U-Bend region. All of these areas of concern were tested with a MRPC probe. Tubesheet maps showing the inspection plans are attached.



## Bobbin Inspection

All tubes in rows 6 through 46 were tested full length with a 0.720 diameter probe. Originally, all full length testing was to be conducted from the hot leg side however, because of water leakage from the nozzle dams the test fixture had to be moved and full length testing in steam generators A and B was conducted from both legs. Tubes in rows 3-5 were primarily inspected with a 0.700 diameter probe through the U-Bend while the opposite leg straight section was tested with a 0.720 diameter probe. In some instances, tubes in row 3-5 were tested full length with a 0.720 diameter probe. These tubes are documented accordingly in the data base. The straight section in row 1 and 2 were tested with a 0.720 diameter probe and the U-Bend portion was tested with a 0.680 diameter probe after heat treatment was performed. The tubesheet maps attached document the actual tubes tested in each steam generator.

Bobbin testing was conducted in accordance with Westinghouse procedure MRS 2.4.2 APC-6 using Job Data Sheet APC-02. Per the Job data sheet, the withdrawal rate was 24 inches per second and the test frequencies were 400 KHz, 200 KHz, 100 KHz and 10 KHz. The bobbin probes used were both the Zetec and Echoram design. Bobbin testing identified indications at both the support plate and the top of the hot leg tubesheet. Distorted and pluggable indications at these locations were further characterized with the motorized rotating pancake probe (MRPC). No tubes were plugged as a result of cold leg indications.

## Straight Section MRPC

Per EPRI recommendations, testing of the hot leg top of tubesheet Wextex expansion was performed. This was done to identify any circumferential cracking at this transition. Additionally, all distorted indications were inspected with an MRPC probe to better characterize the signal as a pluggable indication.

The MRPC probe used was the 2X probe head designed by Echoram. This probe allows data to be collected at twice the standard collection speed.

The MRPC probe characterized indications as either no detectable indication (NDD), single axial indication (SAI), or multiple axial indication (MAI). Additionally, it characterized indications as being circumferentially or axially oriented. Circumferentially oriented indications were identified at the top of the tube sheet in both steam generator A and C. These indications were further characterized using other NDE methods including ultrasonic testing.

### 3 Coil MRPC and CECCO testing

To further characterize indications found at the top of the tubesheet a sample of tubes were tested with both the Zetec 3 coil MRPC probe and the CECCO probe. The 3 coil probe has one coil which is designed to better detect axial indications, one coil designed to better detect circumferential indications and one coil designed to detect both. Utilizing special software this data can be mixed and analyzed to enhance the overall data results. The CECCO probe was designed to quickly detect circumferential indications.

### U-Bend MRPC

Following the heat treatment of row 1 and 2 all tubes in these rows were tested using a Zetec designed 0.680 diameter U-Bend MRPC probe. Both circumferential and axial indications were found in the U-Bends of some of the unplugged row 1 tubes. These tubes were then replugged using the appropriate procedure.

### Data Evaluation

Westinghouse performed a primary and secondary analysis of all eddy current data. The analysis system utilized was the Echom Heather Data Analysis System. A third party review of the data was conducted by another vendor. Data was analyzed in accordance with the Data Analysis Guidelines. All analysts were trained and tested in accordance with the Farley analysis training and testing program.

### Stabilizer and Mechanical Plug Installation

#### Description

Westinghouse Inconel 690 mechanical plugs were installed in Steam Generators A, B, and C. 251 plugs were installed robotically utilizing both the WL-II and the ROSA fixture. Five tube ends in Steam Generator A hot leg were restricted and required rework with a slide hammer. These tubes were subsequently plugged manually. Two hot leg tube ends in Steam Generator C and nine hot leg tube ends in Steam Generator A required stabilization prior to plugging. The stabilizers, which were approximately eight feet long, were installed in tubes with circumferentially oriented cracks at the top of the hot leg tube sheet. Stabilizers and plugs in these tube ends were installed manually.

#### Implementation

The above tube plugging was performed in accordance with Westinghouse Procedure MRS 2.3.2 APC-18 and MRS 2.3.2 APC-2 using the new plugging system.

## Summary

The table below summarizes the plugged tube data:

Plugged Tube Summary	S/G A	S/G B	S/G C
Tubes plugged due to defective indications	113	42	59
Row 1 tubes plugged	18	22	11
Tubes plugged due to stuck plug tops, stuck probes, etc.	0	1	1
Total tubes plugged this outage	131	65	71

## Video Scan

A video inspection of all previously installed plugs in both the hot leg and cold leg of all three steam generators was performed. The purpose of this inspection was to determine if the plugs had any visible signs of leakage. The video inspection was performed in accordance with Westinghouse Procedure MRS 2.4.2 APC-9. No plugs were identified as having leakage or significant boron deposits.

## Mechanical Plug Removal

### Description

Row 1 mechanical plug removal was performed in the hot and cold legs of steam generators A, B, and C. A total 557 plugs were removed using the One Step Drill attached to ROSA. The One Step Drill process requires first drilling each plug with a one quarter inch center hole. This is followed by machining the plug with a 25/32 rotobroach. Finally, the plug top is removed and the hole is inspected for an acceptable inner surface condition.

### Implementation

Plug machining was performed using Westinghouse procedures MRS 2.3.2 APC-16 and MRS 2.3.2 APC-14.

## Summary

The table below summarizes the plugs removed:

	S/G A		S/G B		S/G C	
	Hot	Cold	Hot	Cold	Hot	Cold
Plugs removed	94	94	94	91	93	91
Plugs reinstalled	18	18	23	20	12	10

## U-Bend Heat Treatment

### Description

The U-Bend region of row 1 and 2 in all three steam generators was thermally treated. A total of 562 tubes were stress relieved. The purpose of this process was to reduce the susceptibility of stress corrosion cracking. The tubes were heated to an approximate temperature of 1300-1500 degrees Fahrenheit for 11 minutes.

### Implementation

Heat treating, which uses a platinum based resistance heater, was performed from the hot leg of Steam Generators A and C and from both legs of Steam Generator B. Work was performed using field procedure STD-FP-1991-5303.

### Summary

The table below summarizes the tubes that were heat treated:

	S/G A	S/G B	S/G C
Row 1	94	93	93
Row 2	94	91	94

### Ultrasonic Testing

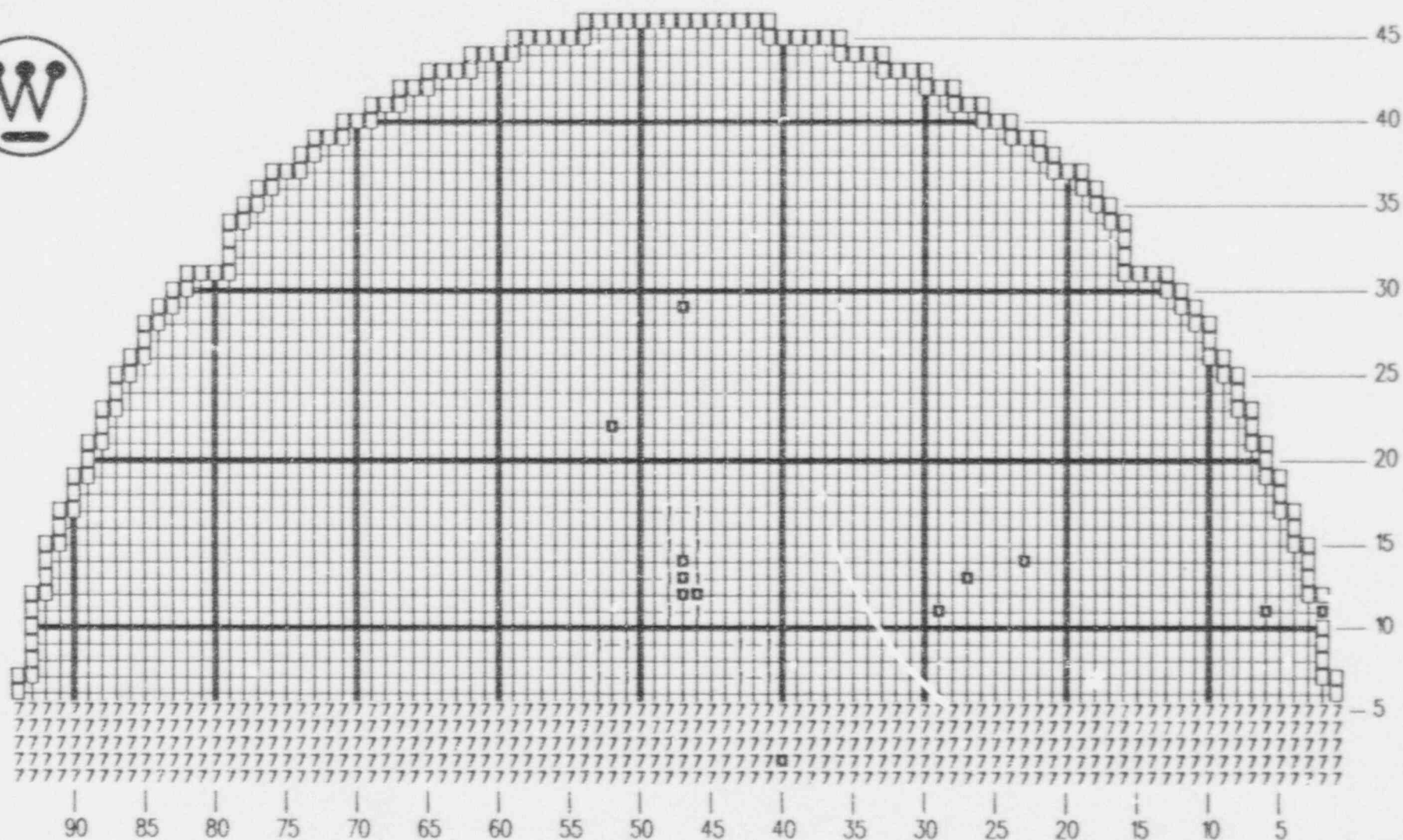
Ultrasonic testing was performed in Steam Generators A and C. This was done to further characterize indications found during the current inspection. This work was done in accordance with procedure STD-FP-1990-5202.

# HOT LEG BOBBIN TEST EXTENTS

7 : 11 TESTED 7C THROUGH TEH  
7 : 458 TESTED 7H THROUGH TEH  
1 : 16 TESTED TOP OF IMPLANT THRU TEH  
■ : 12 PLUGGED TUBES

J. M. Farley Unit 1 ALA-A SERIES 51

04-24-1991 13:30 HRS. SUPERTUBIN



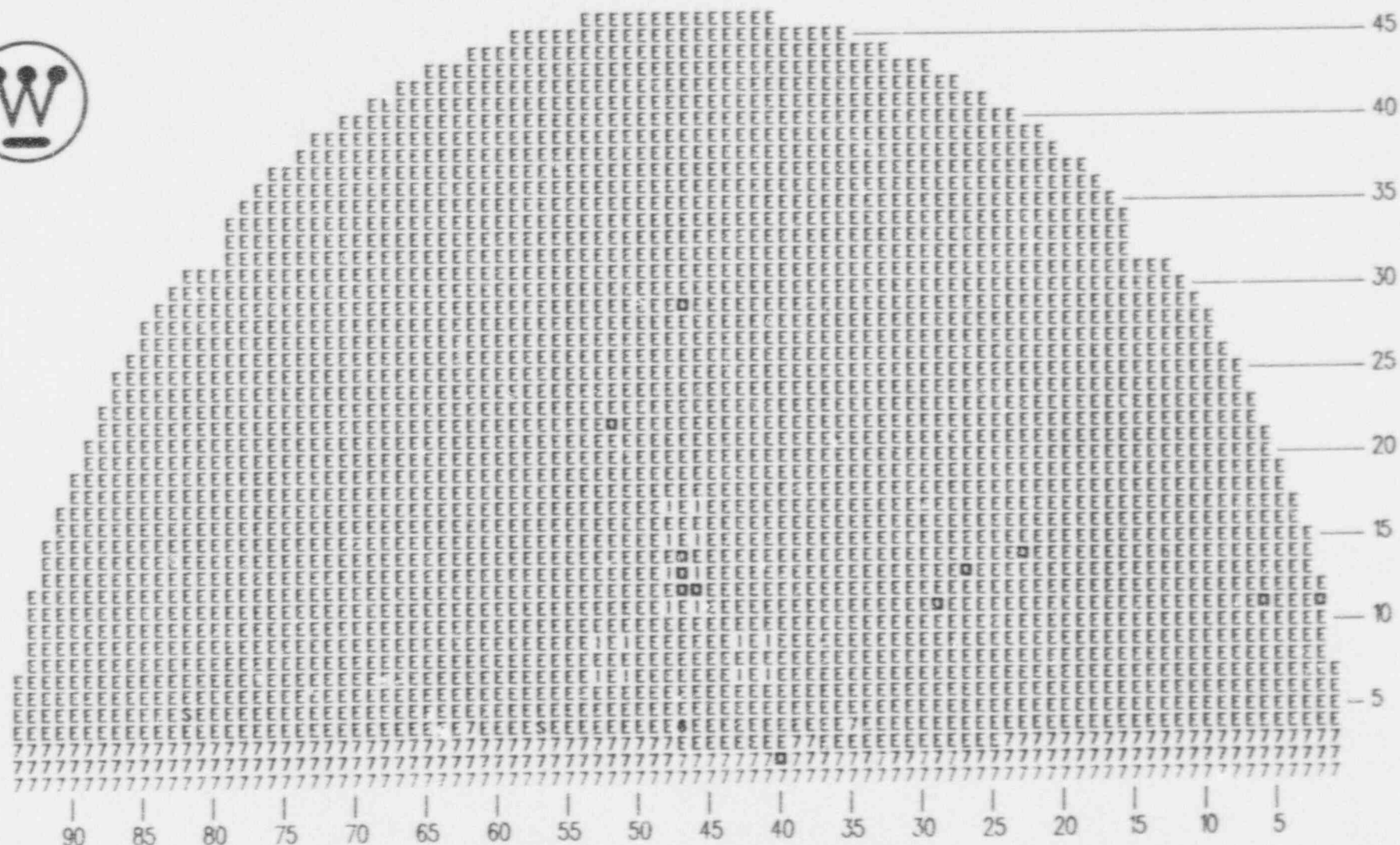


# COLD LEG BOBBIN TEST EXTENTS

J. M. Farley Unit 1 ALA-A SERIES 51

04-26-1991 12:09 HRS. SUPERTUBIN

E : 3095 TESTED TEH THROUGH TEC  
S : 2 TESTED TSH THROUGH TEC  
I : 16 TESTED TOP OF IMPLANT THRU TEC  
6 : 1 TESTED 6H THROUGH TEC  
7 : 155 TESTED 7H THROUGH TEC  
7 : 107 TESTED 7C THROUGH TEC  
□ : 12 PLUGGED TUBES



# DETAIL OF IMPLANT TESTING - HOT LEG

TEST ALL IMPLANTS TO TOP OF IMPLANT

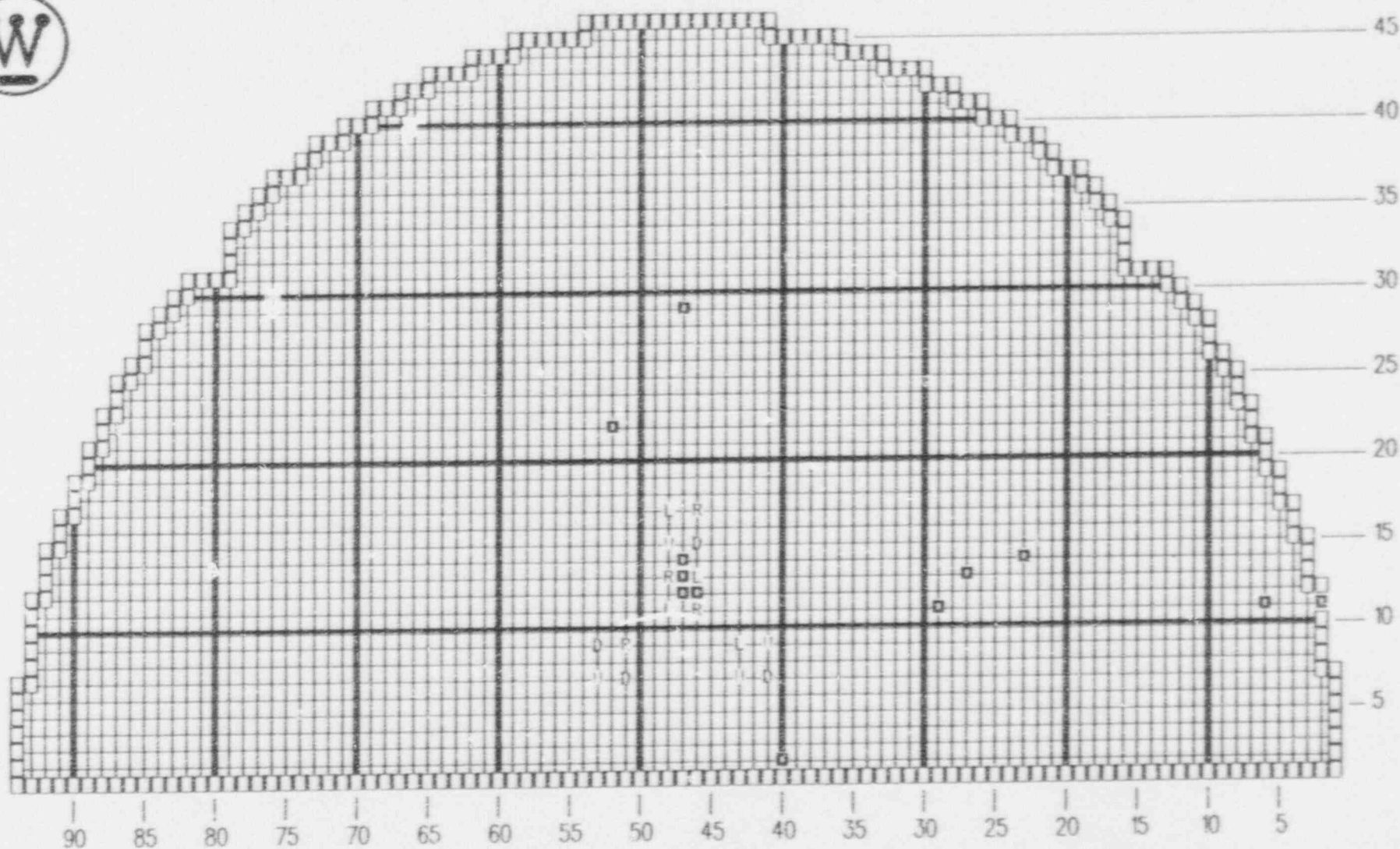
J. M. Farley Unit 1 ALA-A SERIES 51

D : 4 INCONEL 600 HEAT TREAT TESTS  
U : 4 INCONEL 690 IMPLANT TESTS  
R : 4 INCOLOY 800 IMPLANT TESTS  
L : 4 INCOLOY 800 SHOT PEEN TESTS  
□ : 12 EXISTING PLUGS

04-09-1991

07:51 HRS.

SUPERTUBIN

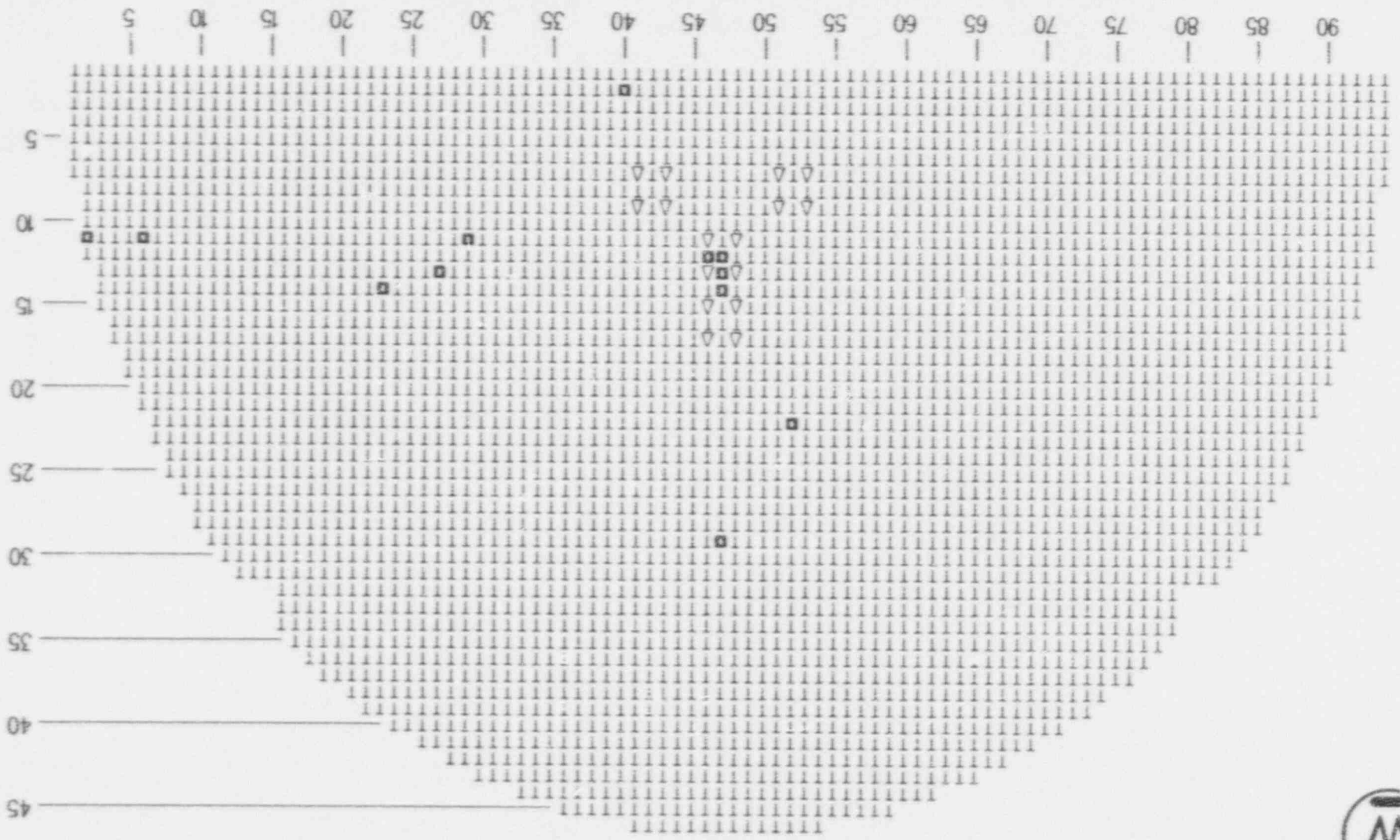


T : 3360 TEST TSH +/- 3"  
 Δ : 16 TEST TSH +/- 3" (IMPLANTS)  
 □ : 12 PLUGGED TUBES

# HOT LEG TOP-OF-TUBESHEET RPC PROGRAM

(PLAN 3)  
 J. M. Farley Unit 1 ALA-A SERIES 51

03-27-1991 14:15 HRS. SUPERTUBIN





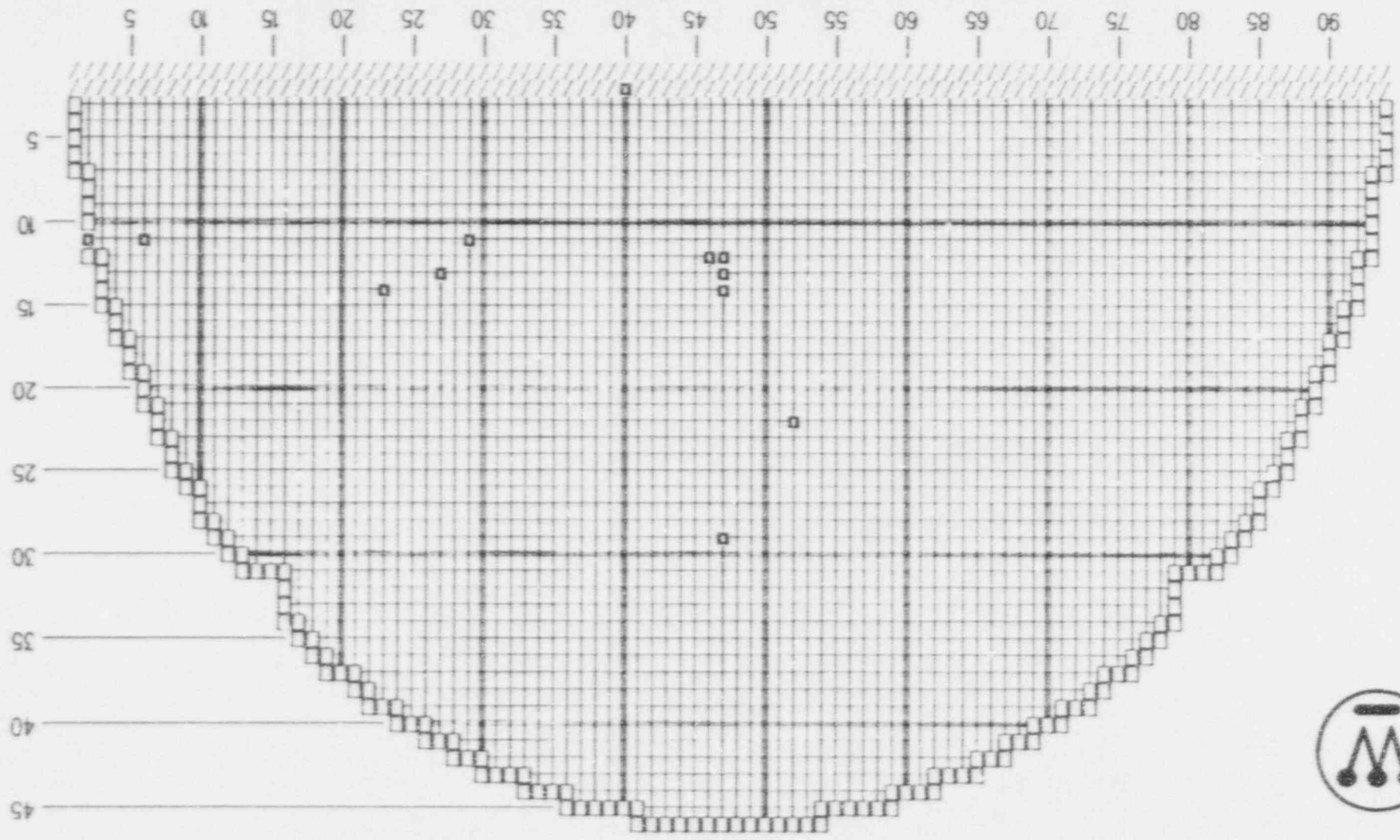
# U-BEND BOBBIN TEST PROGRAM

(PLAN 4)  
J. M. Farley Unit 1

ALA-A SERIES 51

04-26-1991 11:08 HRS. SUPERTUBIN

187 TEST 7C THROUGH 6H :  
12 PLUGGED TUBES



# U-BEND RPC PROGRAM

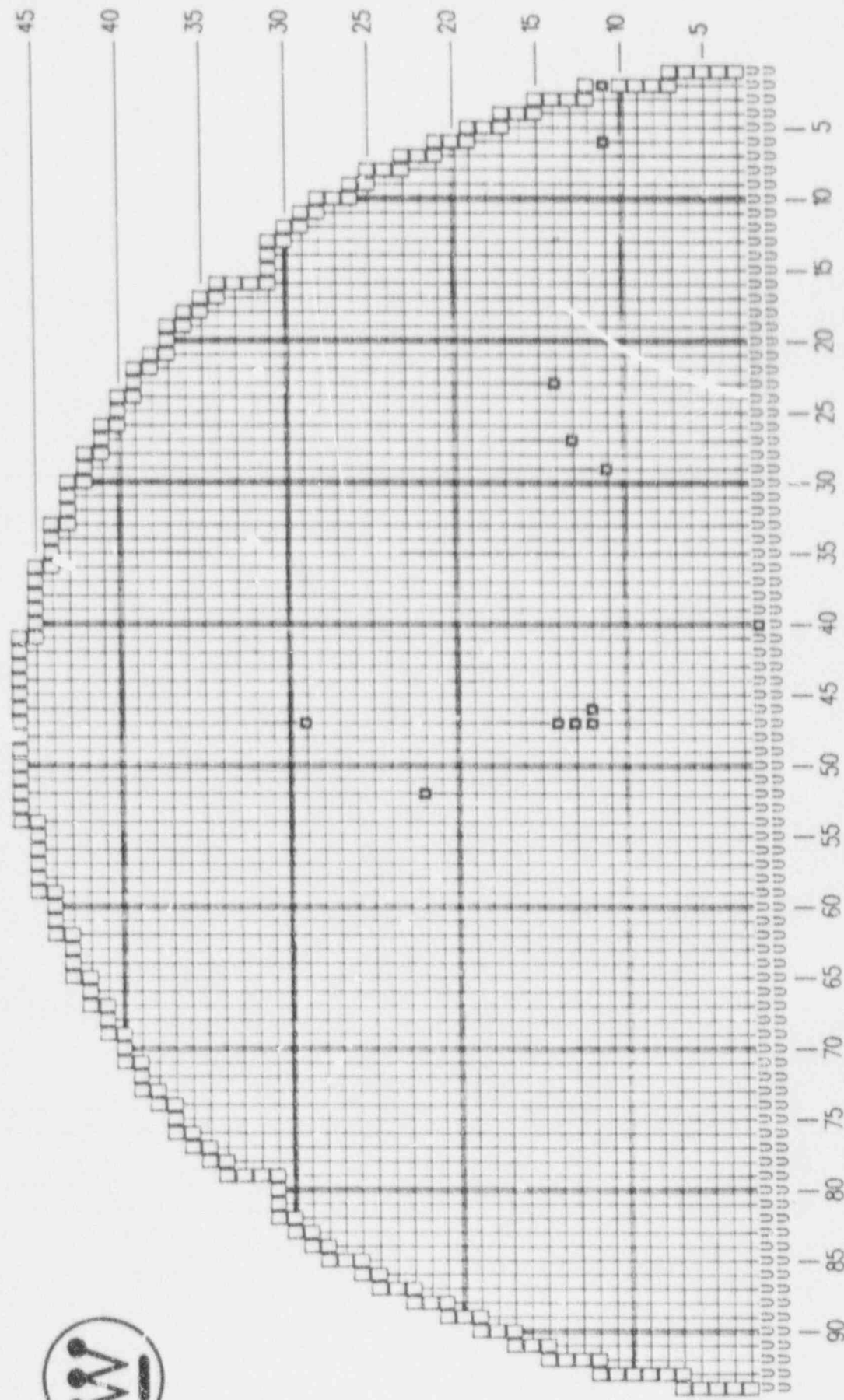
(PLAN 5)

J. M. Farley Unit 1 ALA-A SERIES 51

04-26-1991 11:18 HRS.

SUPERTUBIN

U : 137 TEST 7C THROUGH 7H  
□ : 12 PLUGGED TUBES





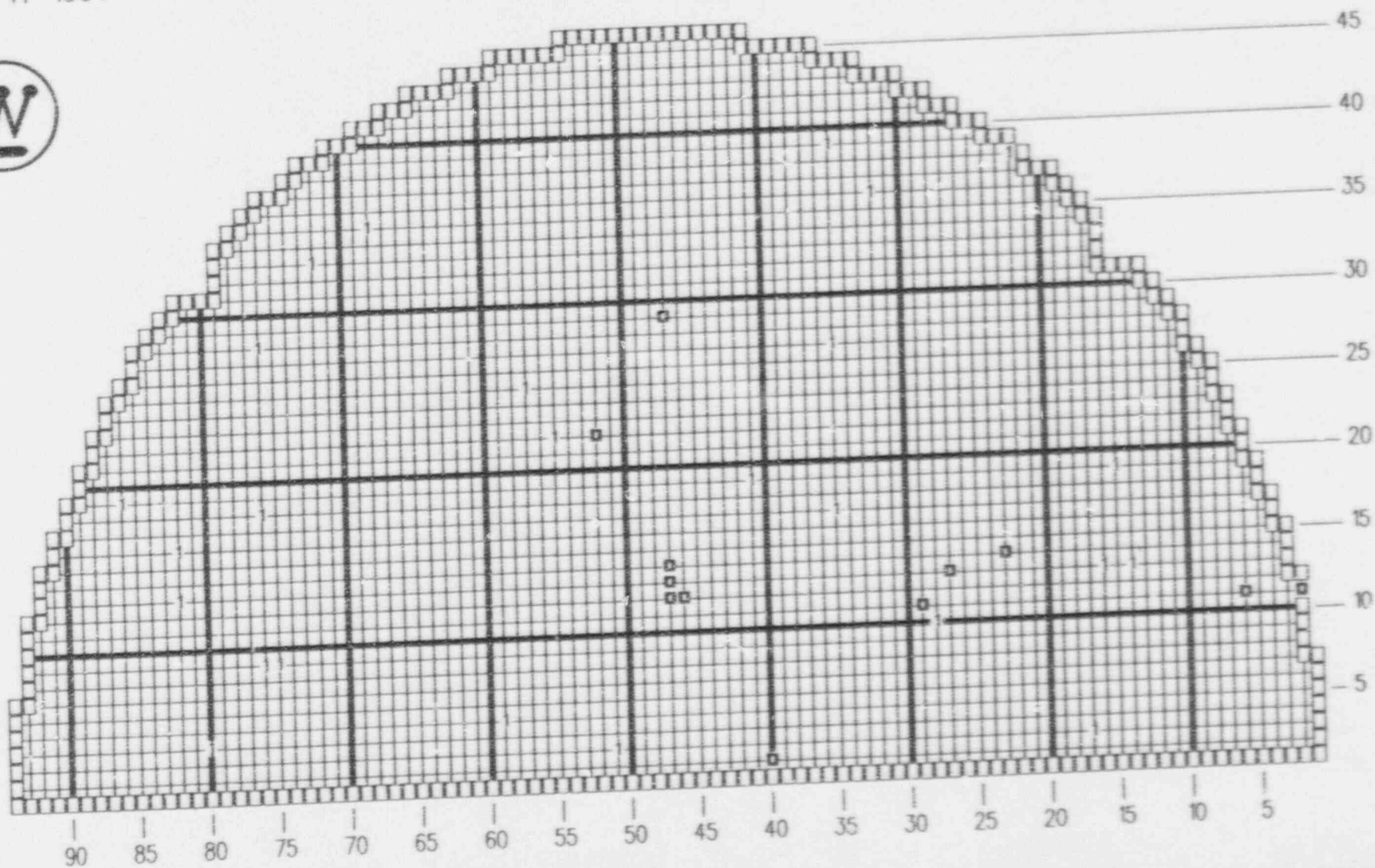
# HOT LEG #1 TSP RPC TEST PROGRAM

(PLAN 6)

J. M. Farley Unit 1 ALA-A SERIES 51

04-11-1991 10:35 HRS. SUPERTUBIN

1 : 25 TEST 1H  $\pm 3''$   
□ : 12 PLUGGED TUBES



# HOT LEG #2 TSP RPC TEST PROGRAM

(PLAN 7)

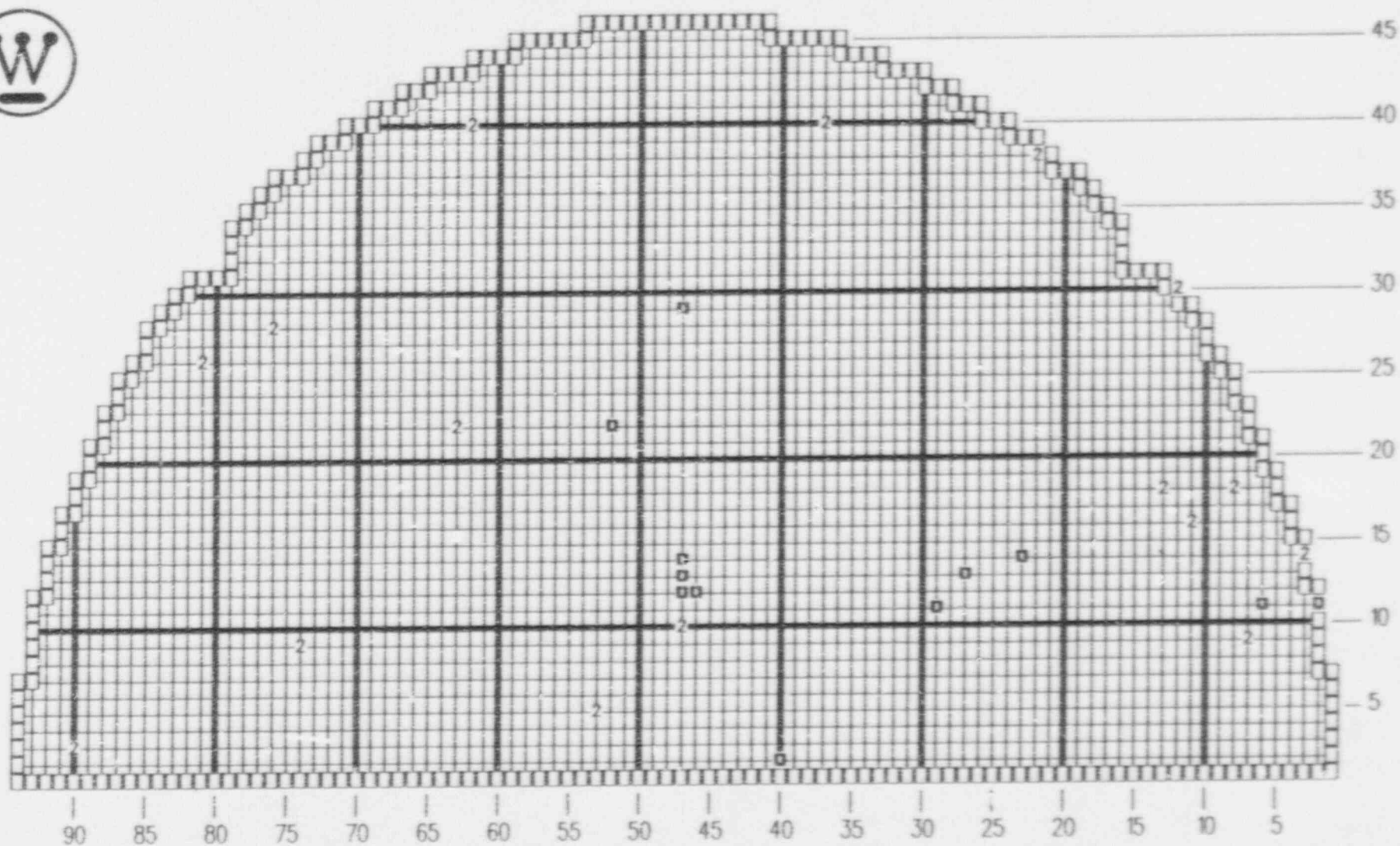
J. M. Farley Unit 1 ALA-A SERIES 51

04-11-1991

10:26 HRS.

SUPERTUBIN

2 : 16 TEST 2H  $\pm$  3"  
□ : 12 PLUGGED TUBES



# HOT LEG #3 TSP RPC TEST PROGRAM

(PLAN 8)

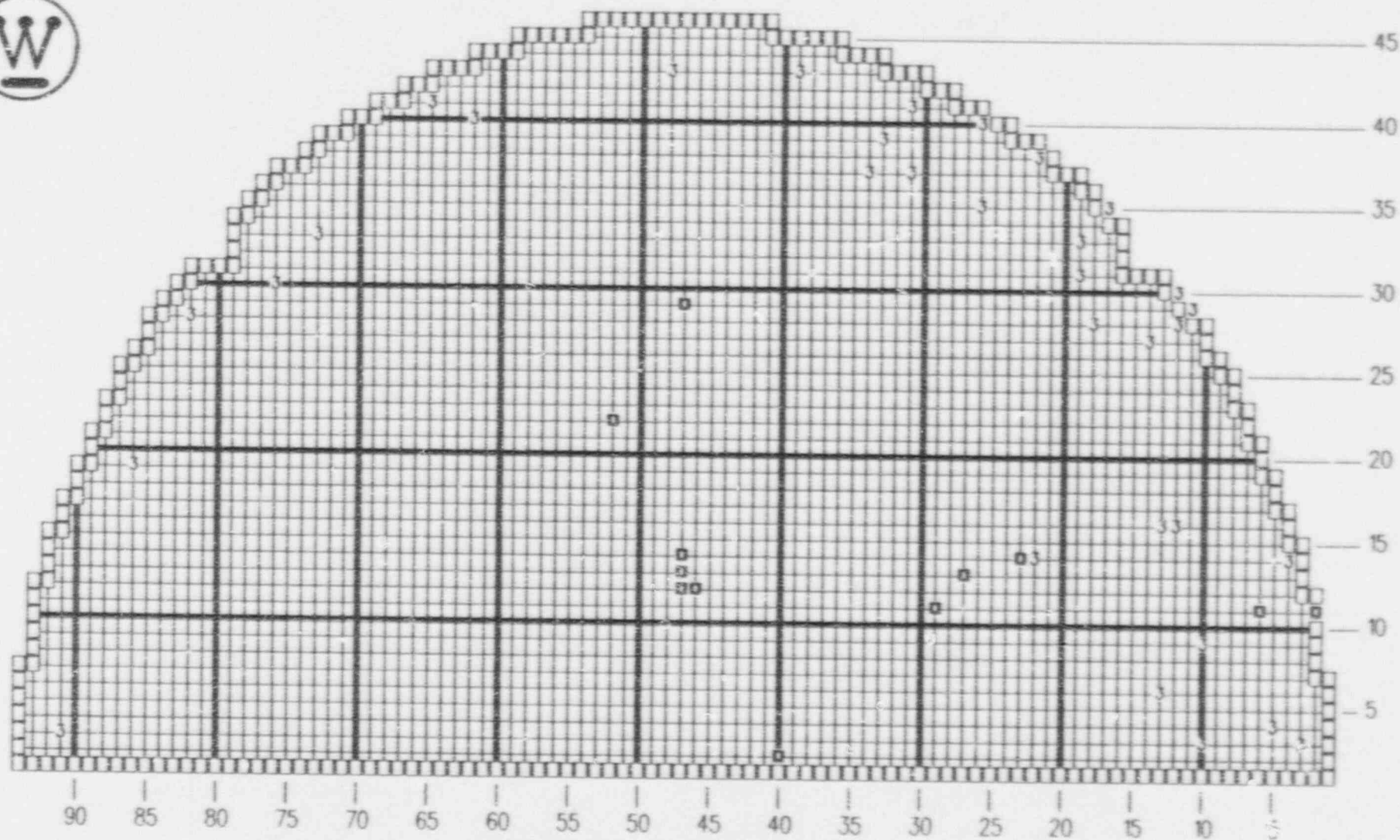
J. M. Farley Unit 1 ALA-A SERIES 51

04-11-1991

10:45 HRS.

SUPERTUBIN

3 : 33 TEST 3H +/- 3"  
□ : 12 PLUGGED TUBES





# HOT LEG #4 TSP RPC TEST PROGRAM

(PLAN 9)

J. M. Farley Unit 1

ALA-A SERIES 51

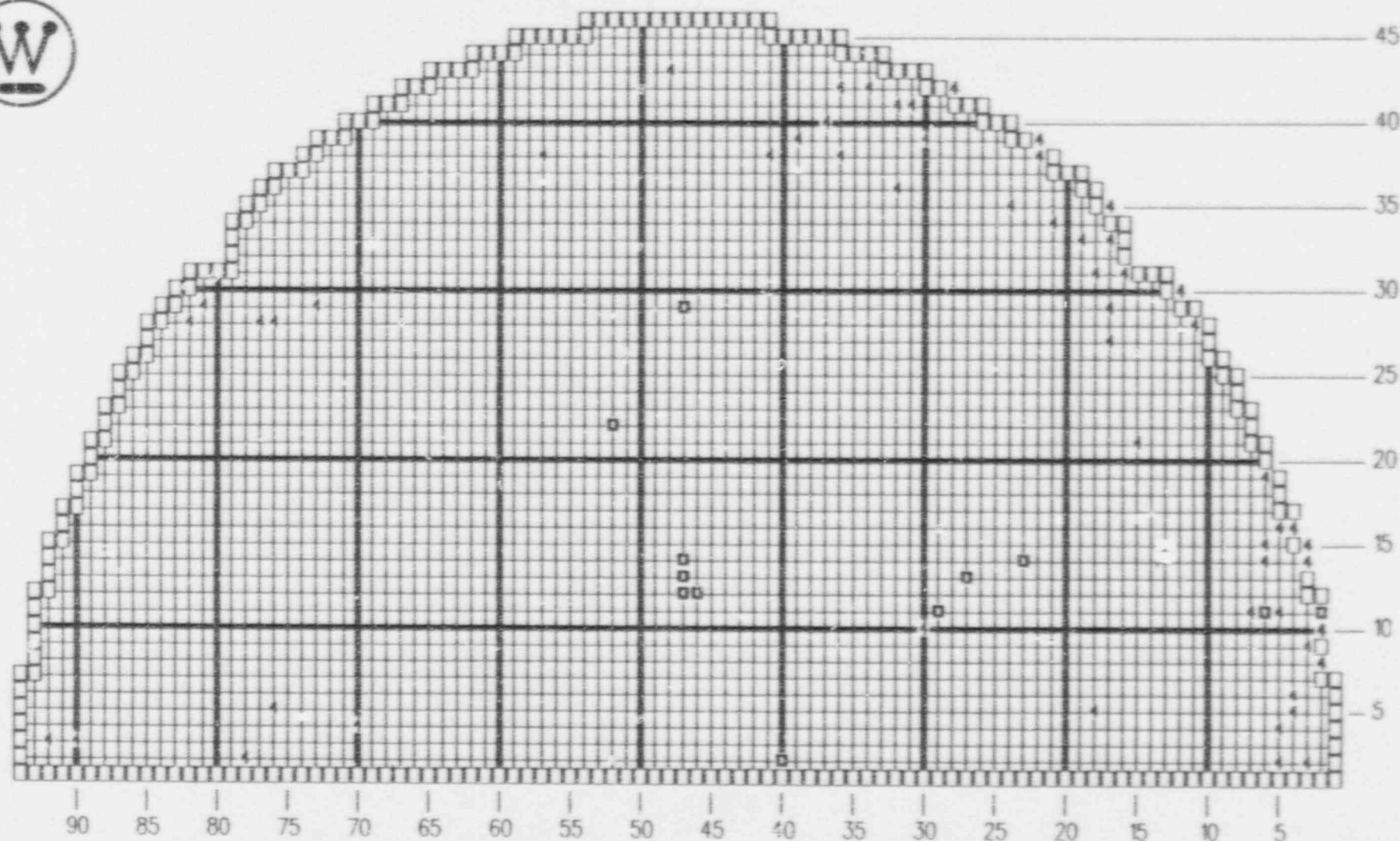
04-11-1991

10:57 HRS.

SUPERTUBIN

4 : 56 TEST 4H +/- 3"

■ : 12 PLUGGED TUBES



# HOT LEG #5 TSP RPC TEST PROGRAM

(PLAN 10)

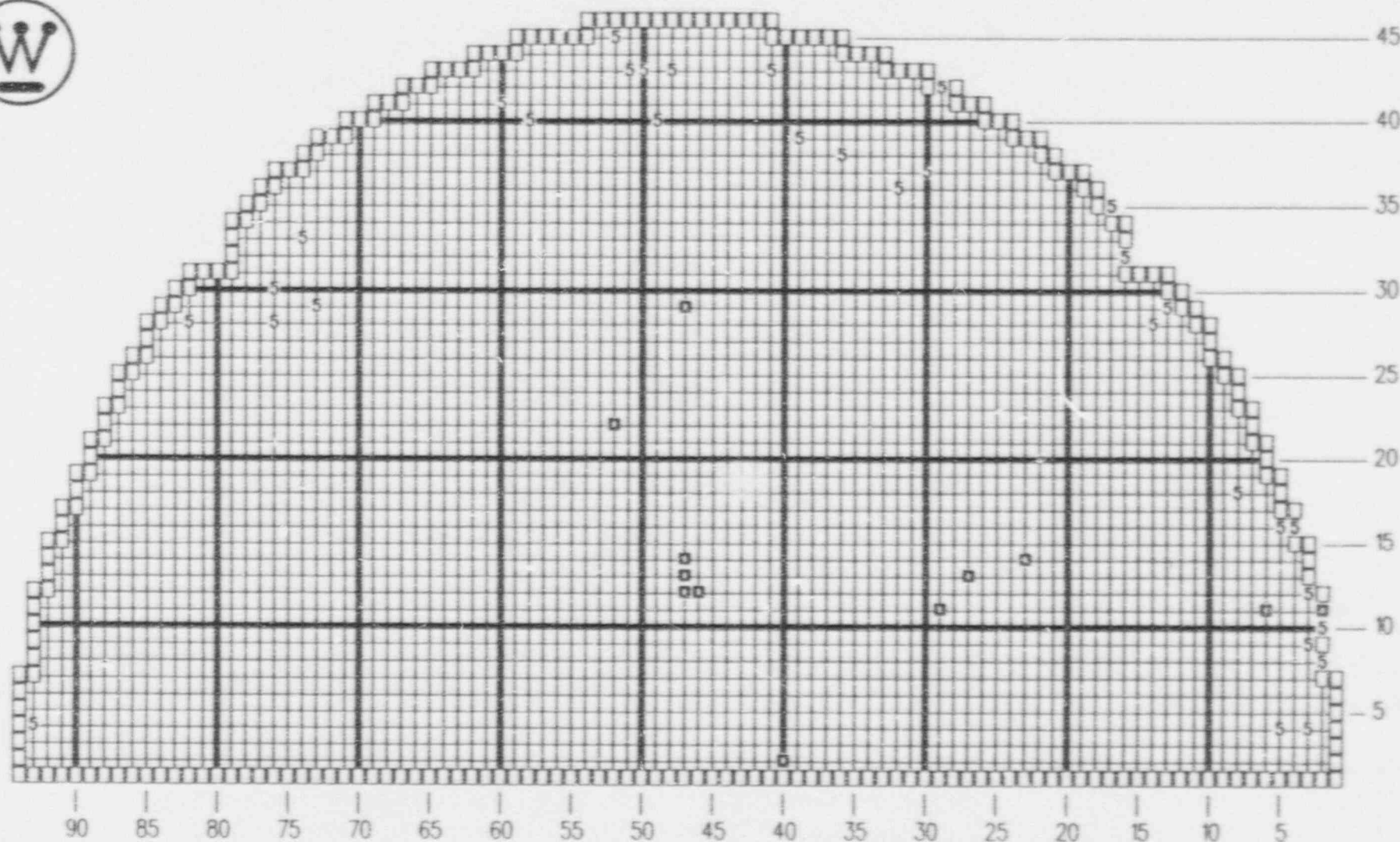
J. M. Farley Unit 1 ALA-A SERIES 51

04-11-1991

11:14 HRS.

SUPERTUBIN

5 : 32 TEST 5H  $\pm$  3"  
□ : 12 PLUGGED TUBES





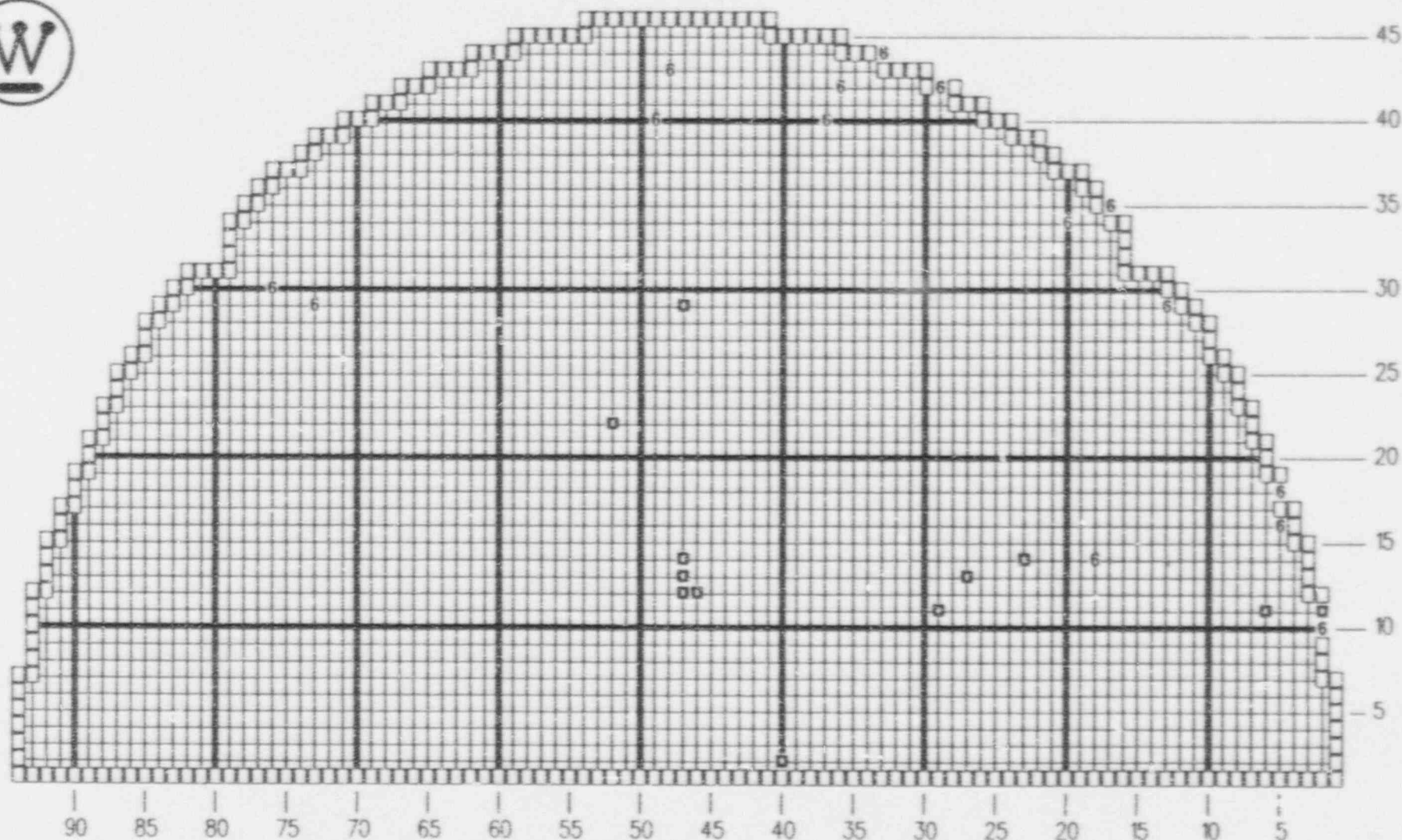
# HOT LEG #6 TSP RPC TEST PROGRAM

(PLAN 11)

J. M. Farley Unit 1 ALA-A SERIES 51

04-11-1991 11:21 HRS. SUPERTUBIN

6 : 15 TEST #6 TSP +/- 3"  
□ : 12 PLUGGED TUBES



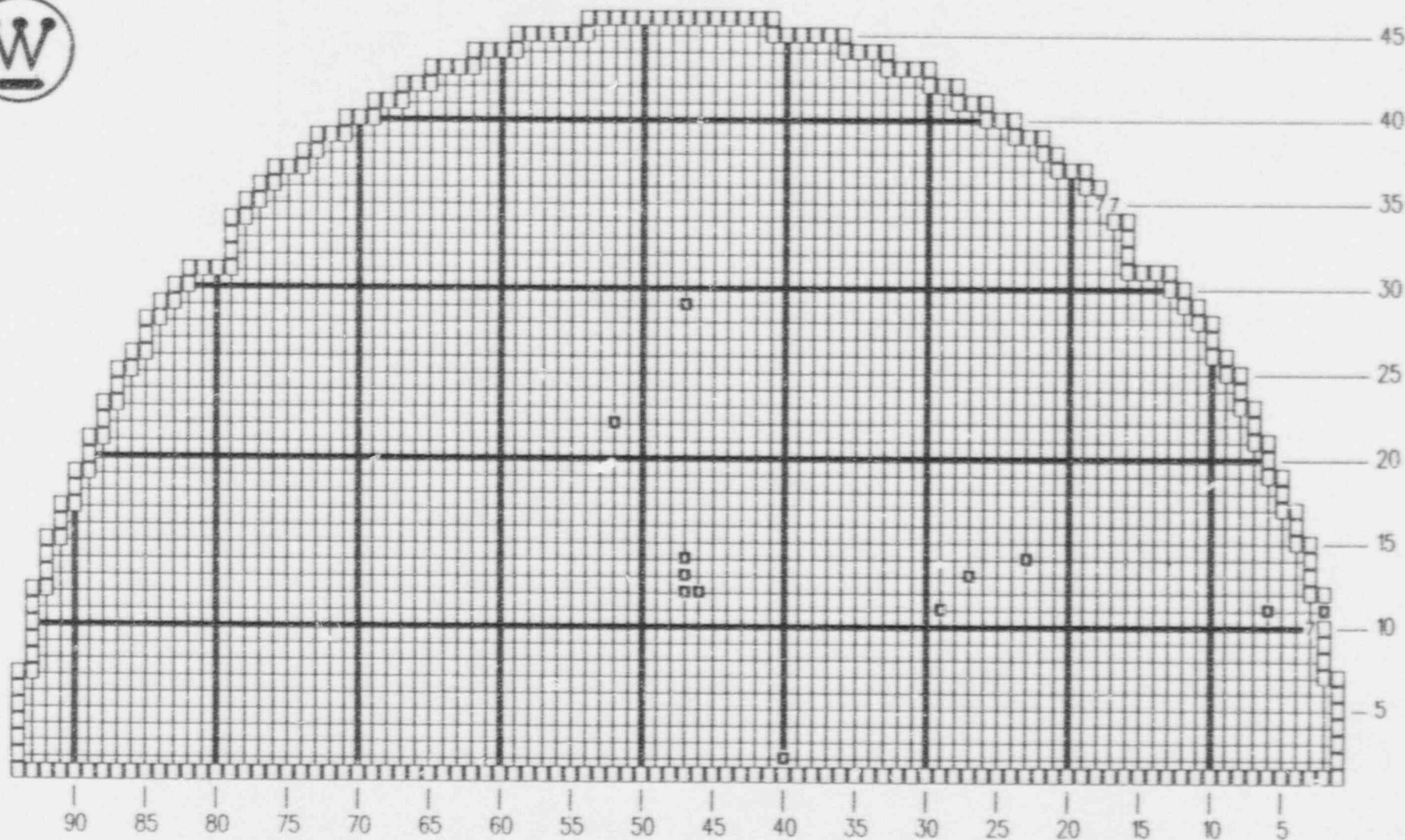
# HOT LEG #7 TSP RPC TEST PROGRAM

(PLAN 12)

J. M. Farley Unit 1 ALA-A SERIES 51

04-11-1991 11:31 HRS. SUPERTUBIN

7 : 3 TEST 7H +/- 3"  
■ : 12 PLUGGED TUBES



# TESTS WITH 3-COIL RPC & CECCO PROBES

(RESULTS PRESENTED IN A SEPARATE REPORT)

J. M. Farley Unit 1 ALA-A SERIES 51

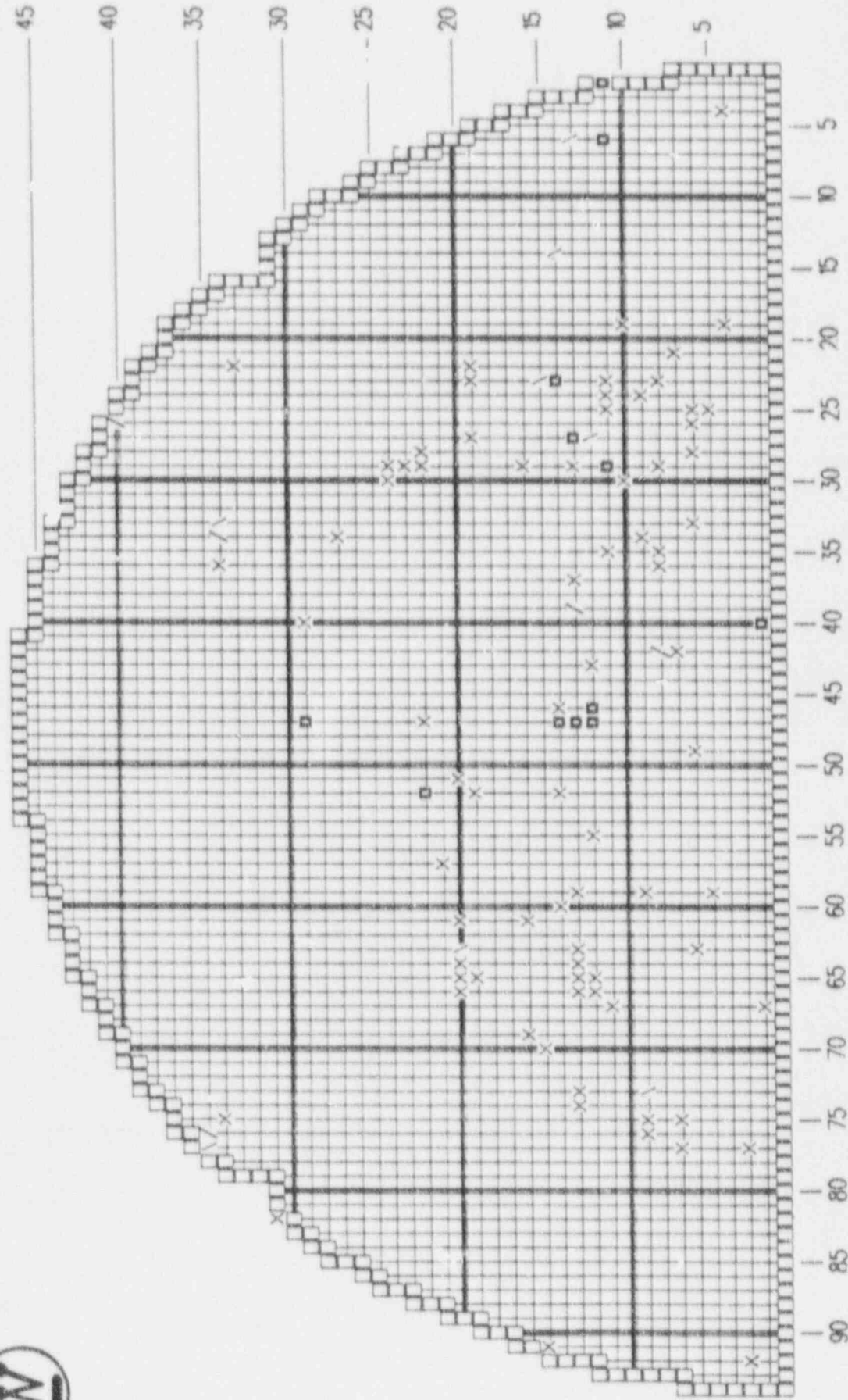
04-23-1991

15:51 HRS.

SUPERTUBIN



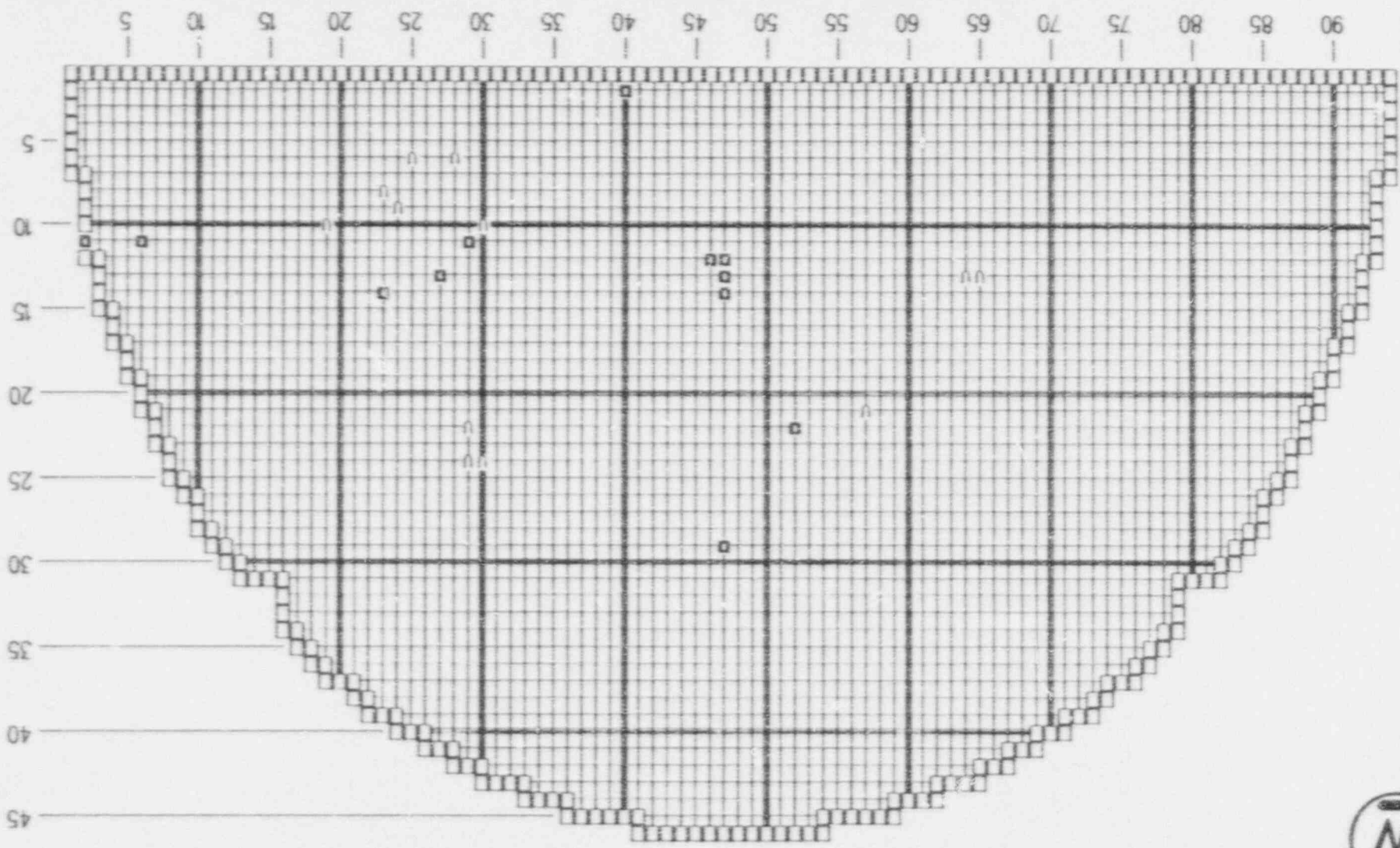
< : 5 TESTED WITH 3-COIL PROBE ONLY  
 : 8 TESTED WITH CECCO PROBE ONLY  
 : 77 TESTED WITH BOTH PROBES  
 X : 12 PLUGGED TUBES



U : 12 TUBES TESTED WITH UTEC  
 □ : 12 PLUGGED TUBES

HOT LEG TUBES TESTED WITH UTEC SYSTEM  
 (RESULTS PRESENTED IN A SEPARATE REPORT)  
 J. M. Farley Unit 1  
 ALA-A SERIES 51

04-23-1991 08:29 HRS. SUPERTUBIN





# HOT LEG #7 TSP RPC PROGRAM

(PLAN 12)

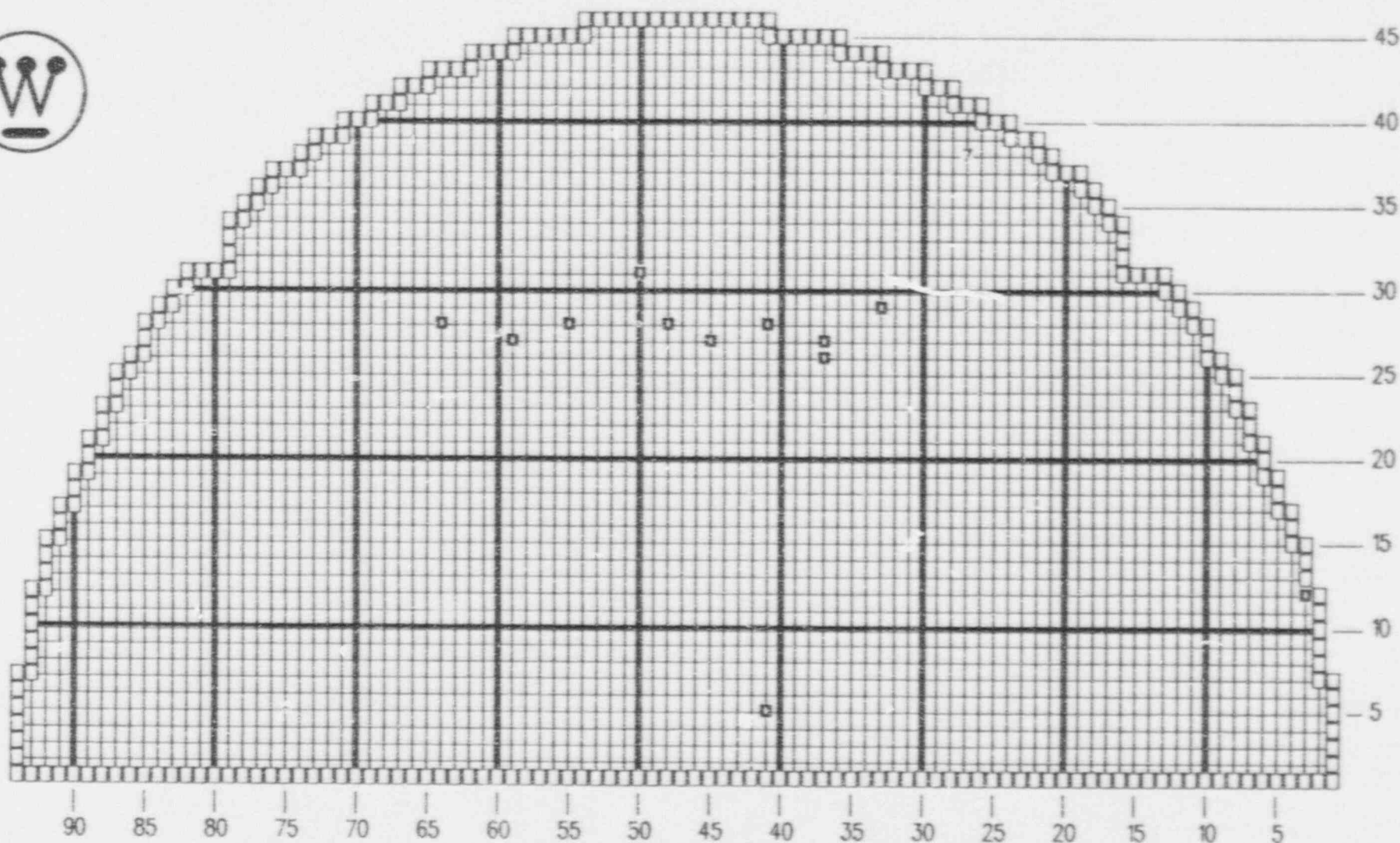
J. M. Farley Unit 1 ALA-B SERIES 51

04-22-1991

13:19 HRS.

SUPERTUBIN

7 : 1 TEST 7H  $\pm$  3"  
□ : 12 PLUGGED TUBES







# HOT LEG #5 TSP RPC PROGRAM

(PLAN 10)

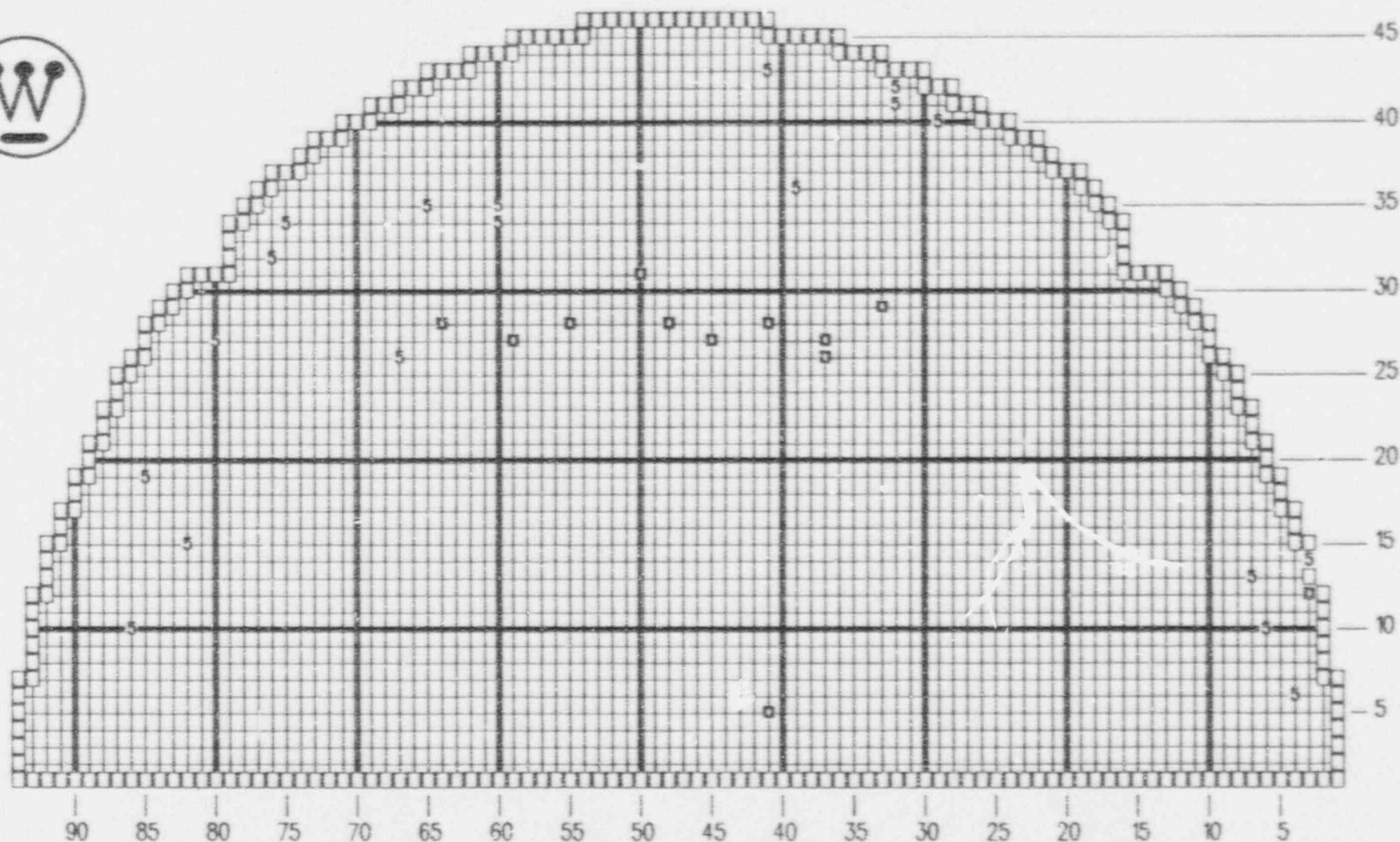
J. M. Farley Unit 1 ALA-B SERIES 51

04-22-1991

13:04 HRS.

SUPERTUBIN

5 : 19 TEST 5H  $\pm$  3"  
□ : 12 PLUGGED TUBES



# HOT LEG #4 TSP RPC PROGRAM

(PLAN 9)

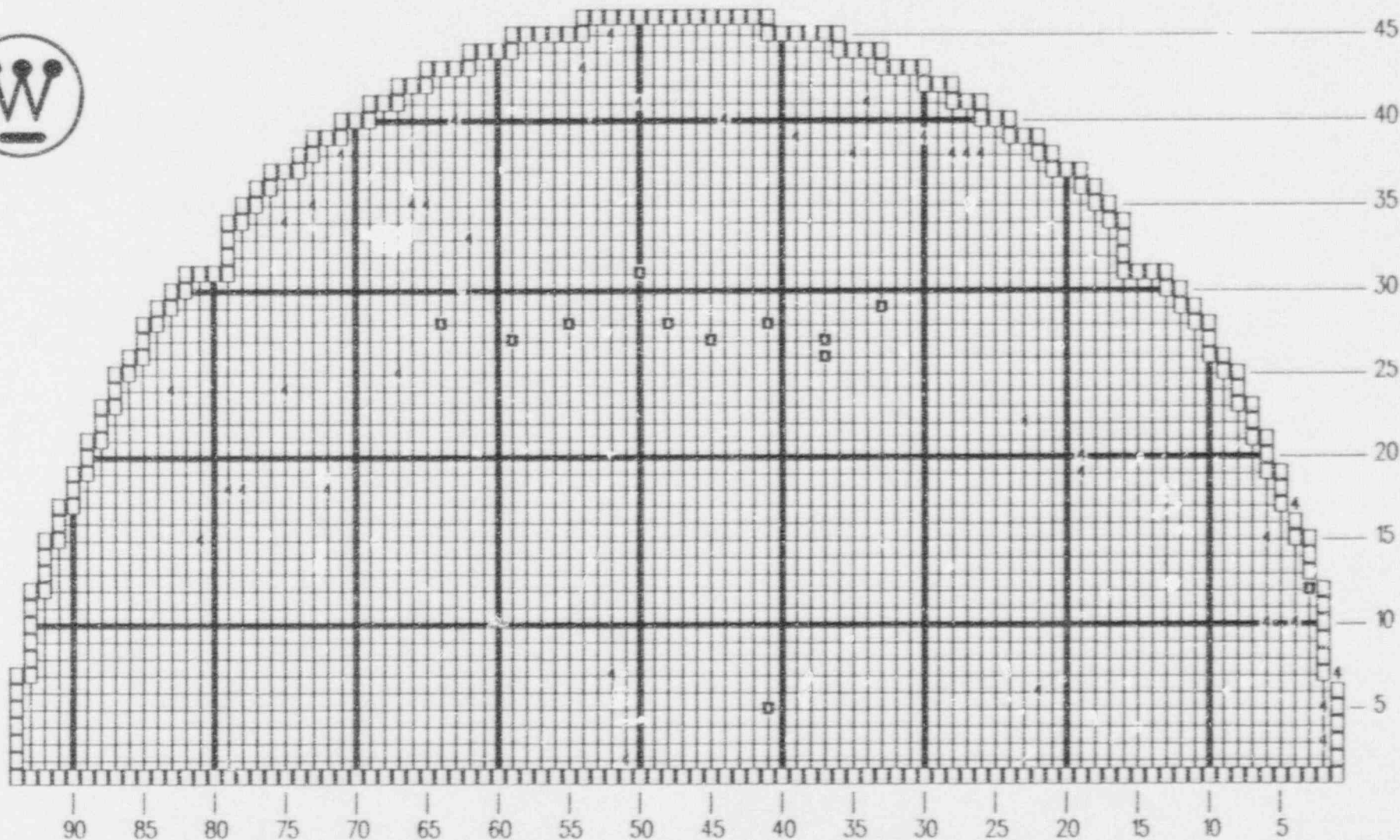
J. M. Farley Unit 1 ALA-B SERIES 51

04-22-1991

09:46 HRS.

SUPERTUBIN

4 : 38 TEST 4H +/- 3"  
■ : 12 PLUGGED TUBES



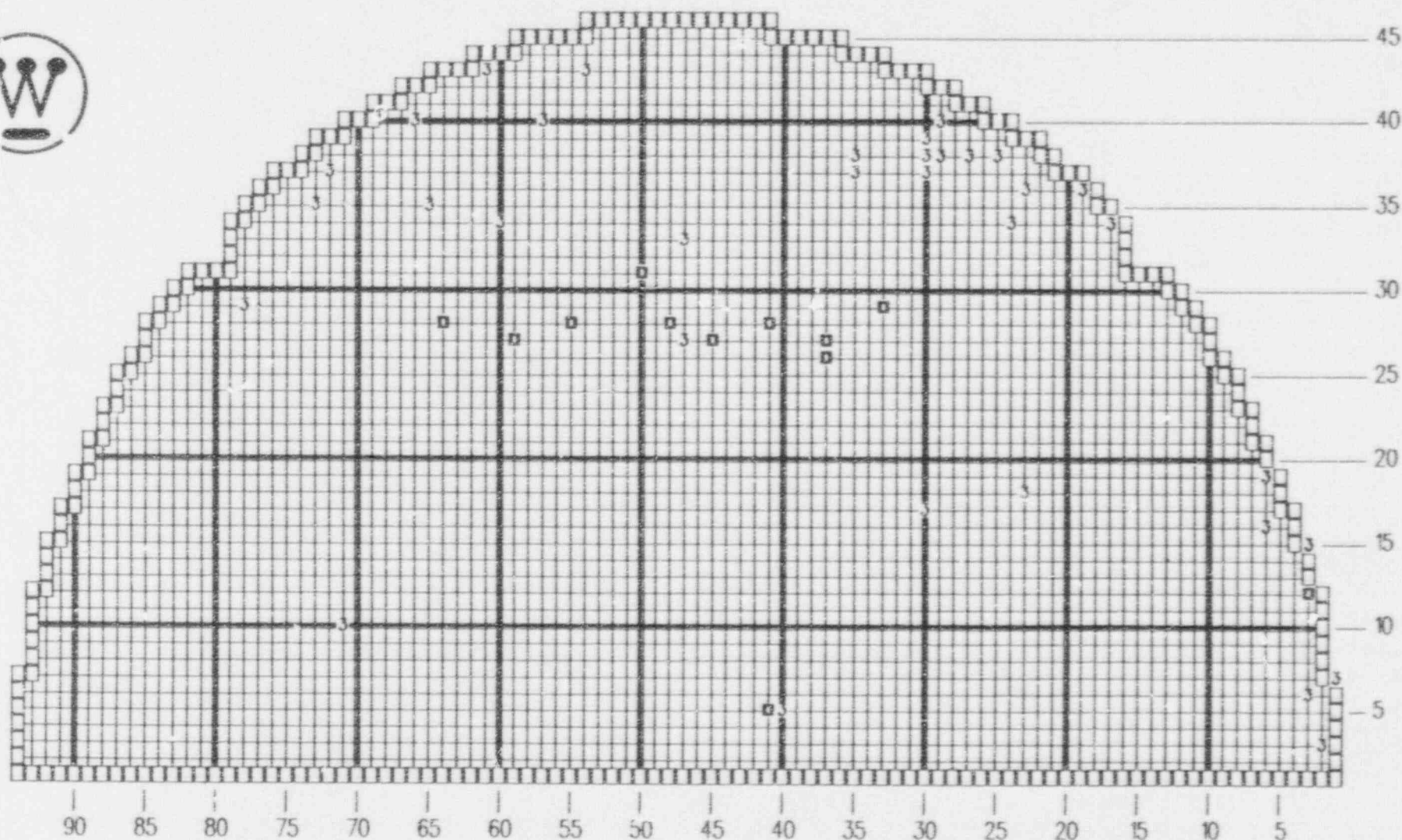
# HOT LEG #3 TSP RPC PROGRAM

(PLAN 8)

J. M. Farley Unit 1 ALA-B SERIES 51

04-22-1991 09:43 HRS. SUPERTUBIN

3 : 34 TEST 3H +/- 3"  
■ : 12 PLUGGED TUBES





# HOT LEG #2 TSP RPC PROGRAM

(PLAN 7)

J. M. Farley Unit 1

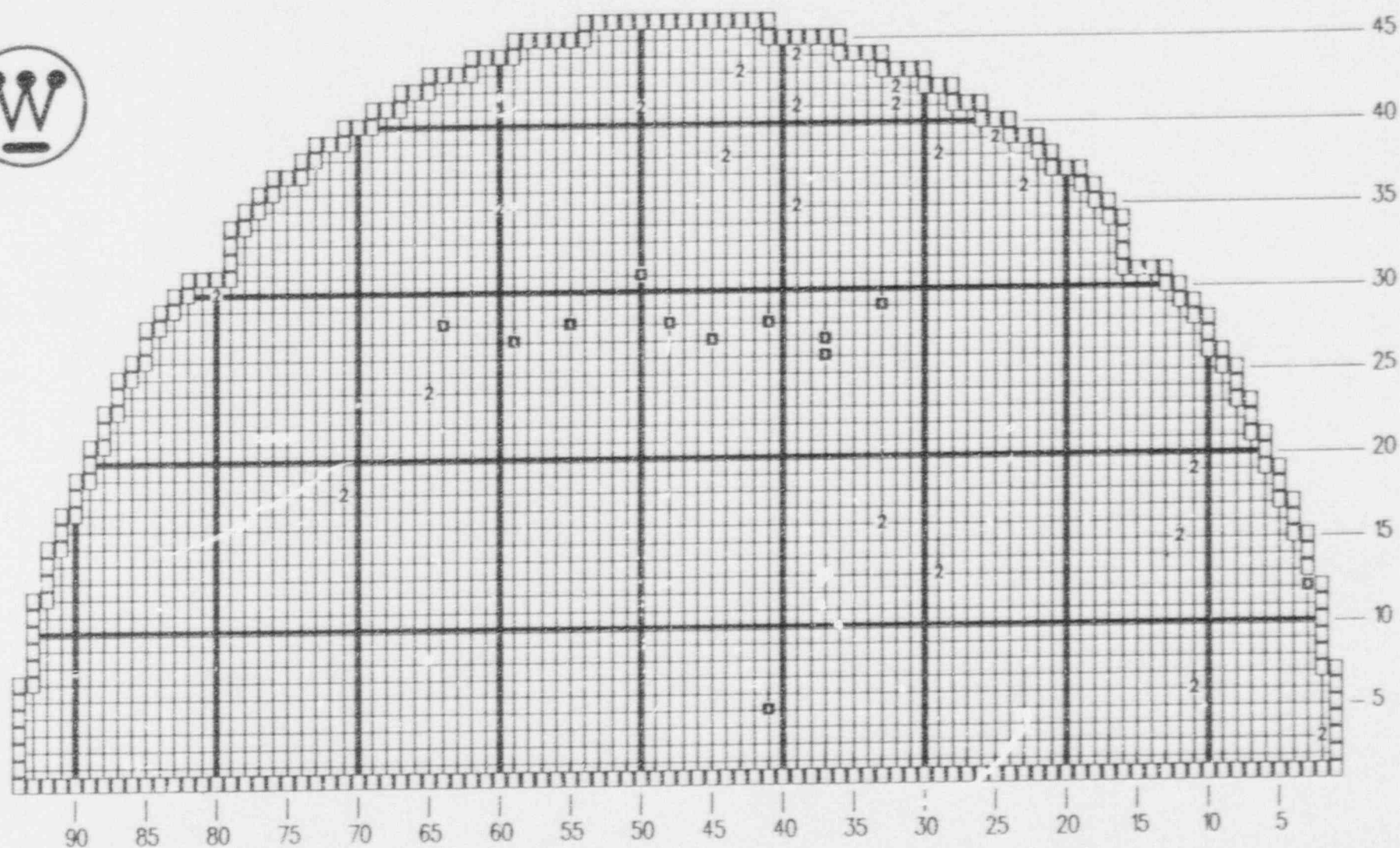
ALA-B SERIES 51

04-22-1991

09:35 HRS.

SUPERTUBIN

2 : 21 TEST 2H  $\pm$  3"  
□ : 12 PLUGGED TUBES





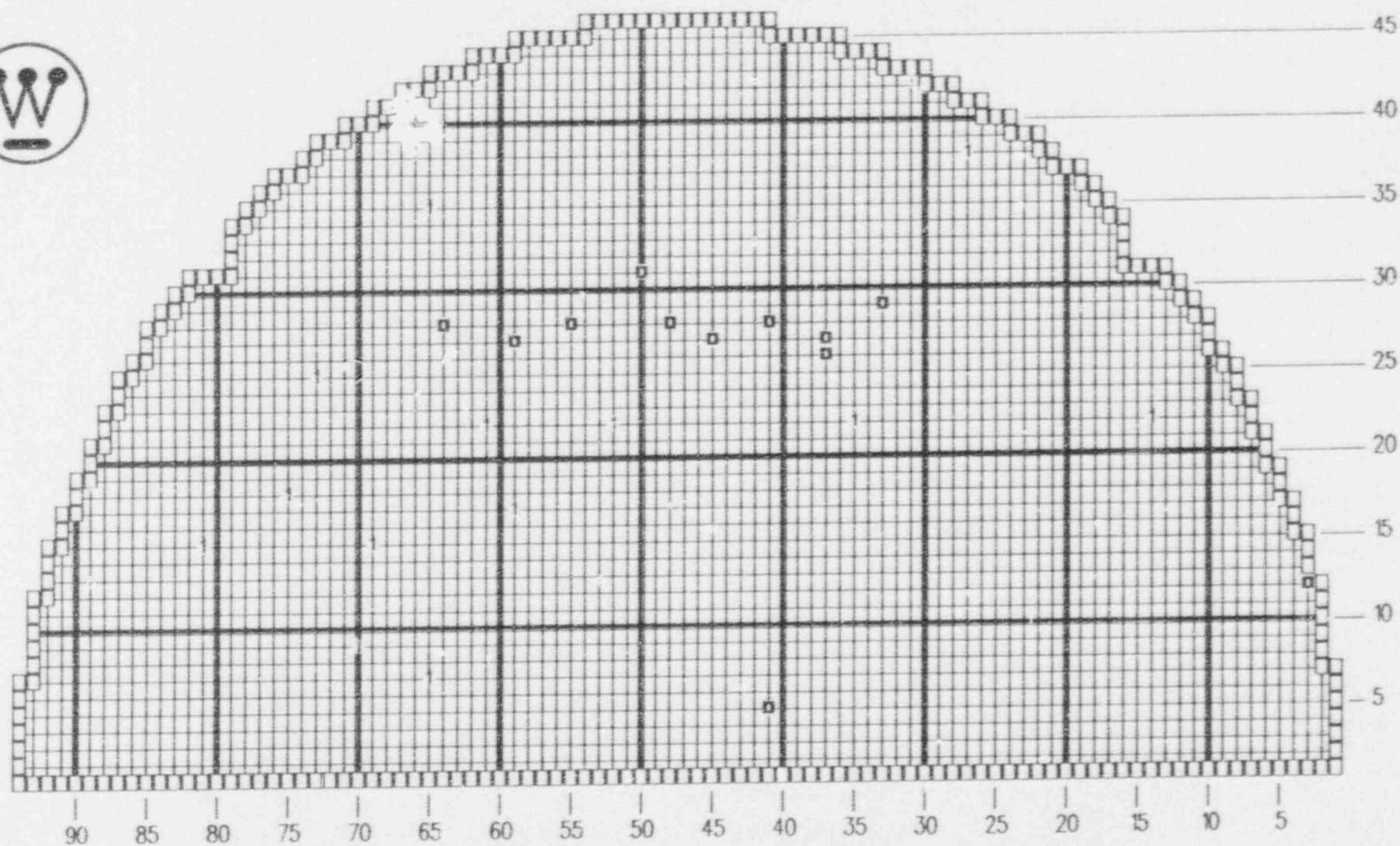
# HOT LEG #1 TSP RPC PROGRAM

(PLAN 6)

J. M. Farley Unit 1 ALA-B SERIES 51

04-22-1991 09:40 HRS. SUPERTUBIN

1 : 13 TEST 1H +/- 3"  
□ : 12 PLUGGED TUBES



# U-BEND RPC PROGRAM

(PLAN 5)

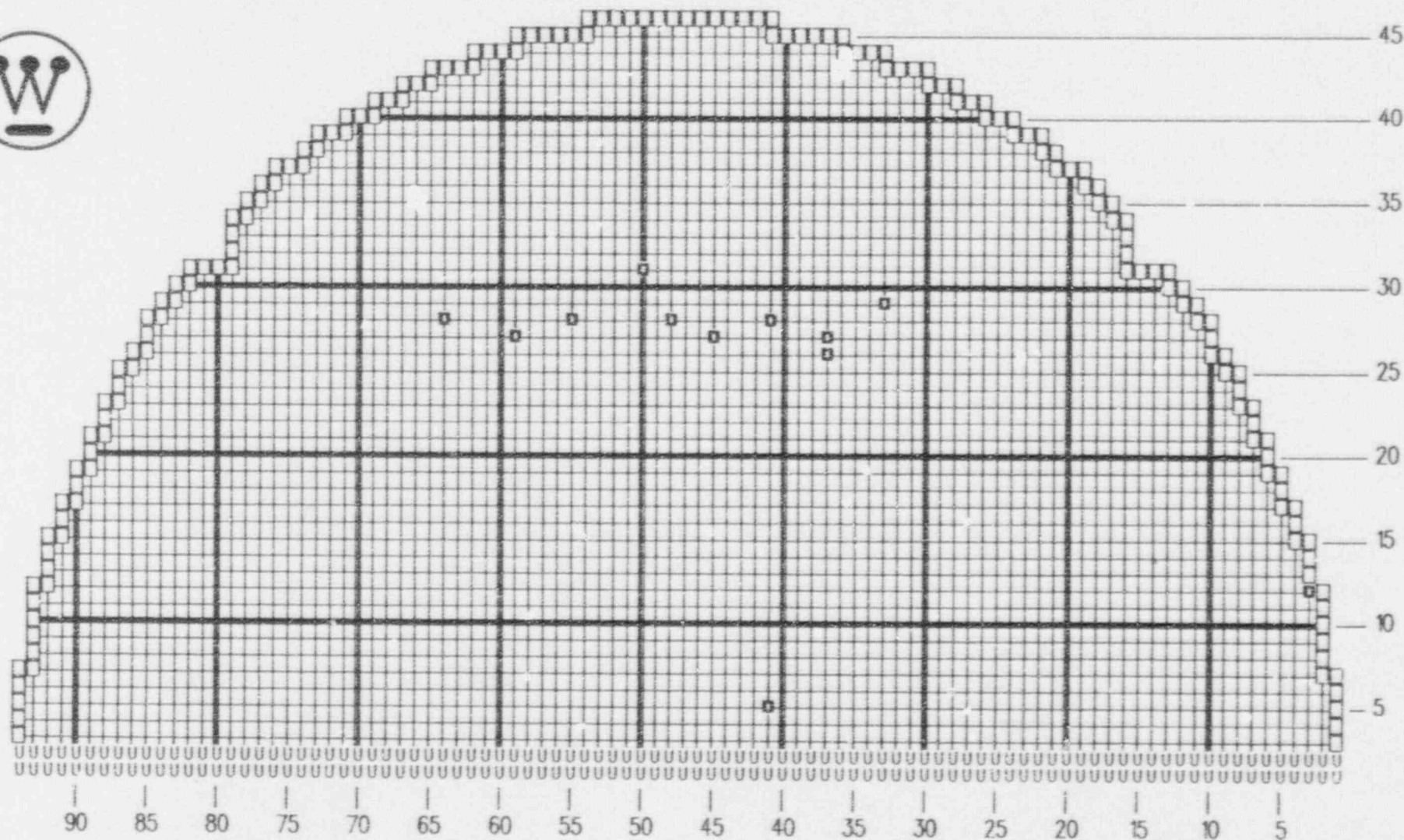
J. M. Farley Unit 1 ALA-B SERIES 51

04-26-1991

10:21 HRS.

SUPERTUBIN

U : 188 TEST 7C THROUGH 7H  
□ : 12 PLUGGED TUBES



# U-BEND BOBBIN TEST PROGRAM

(PLAN 4)

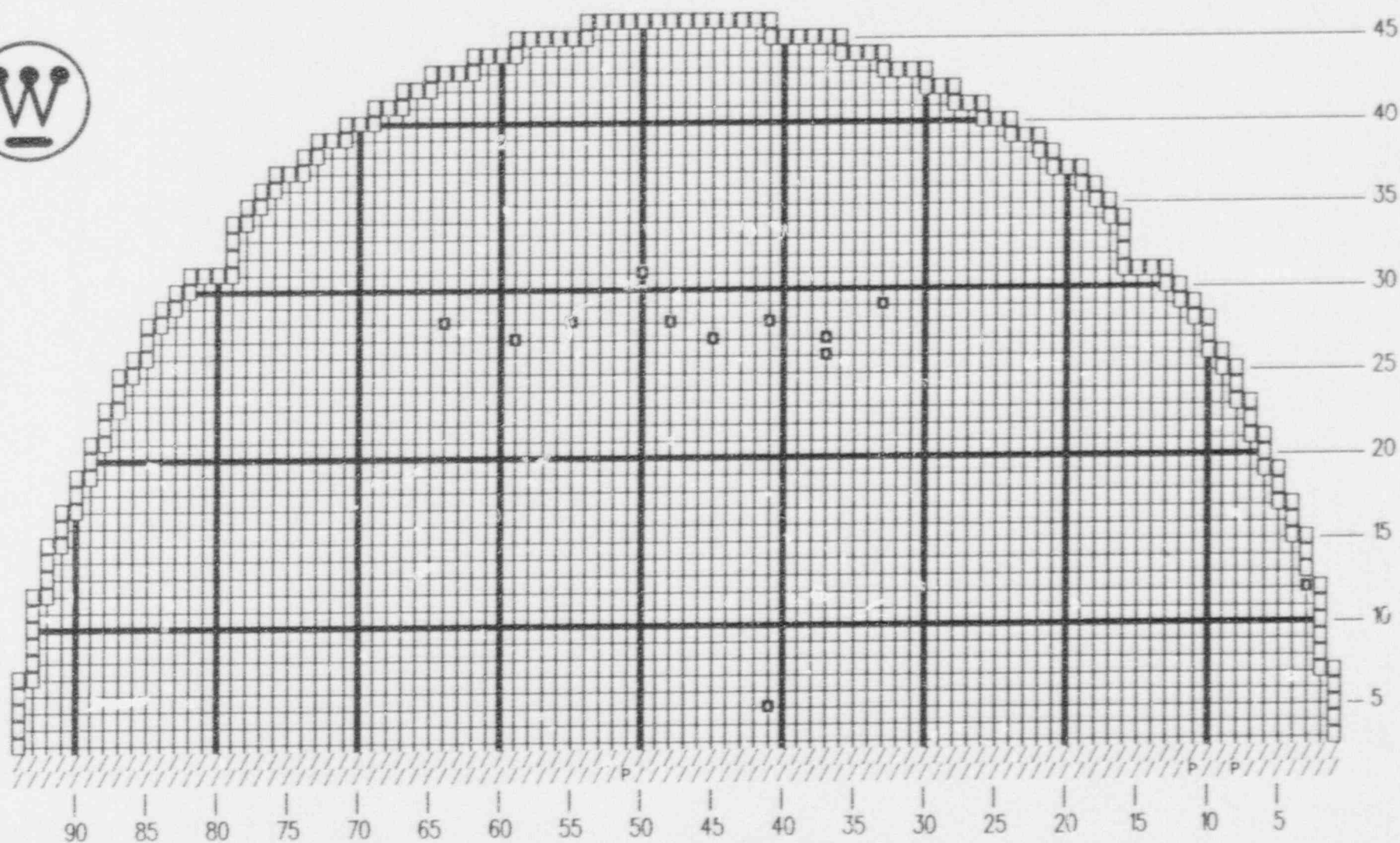
J. M. Farley Unit 1 ALA-B SERIES 51

04-16-1991

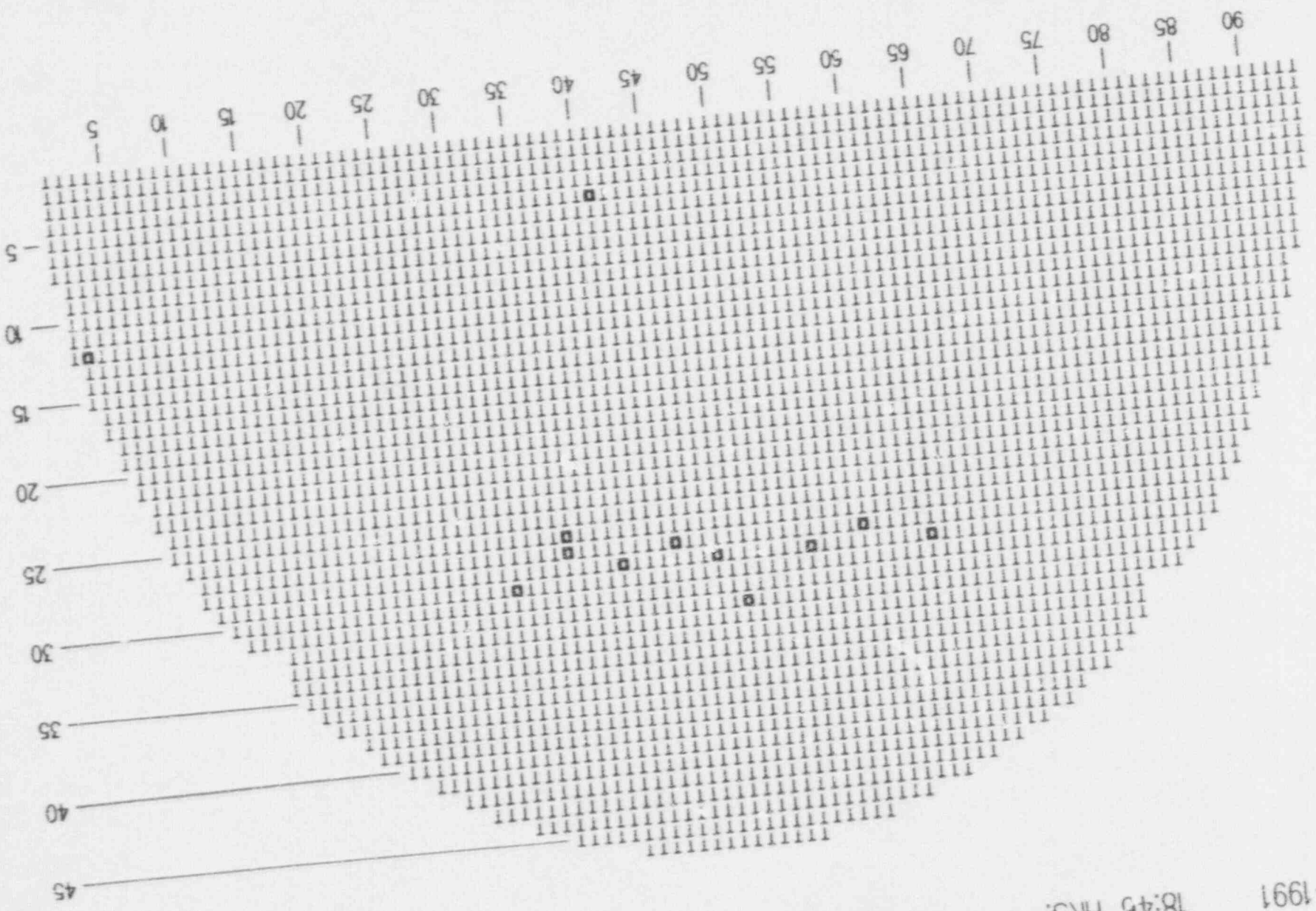
15:10 HRS.

SUPERTUBIN

/ : 185 TEST 7H THROUGH 6C  
P : 3 TUBES PLUGGED IN COLD LEG ONLY  
□ : 12 PLUGGED TUBES







HOT LEG TOP-OF-TUBESHEET RPC PROGRAM  
 (PLAN 3)  
 ALA-B SERIES 51  
 J. M. Farley Unit 1  
 18:46 HRS.  
 03-27-1991  
 SUPERTUBIN

# COLD LEG BOBBIN TEST EXTENTS

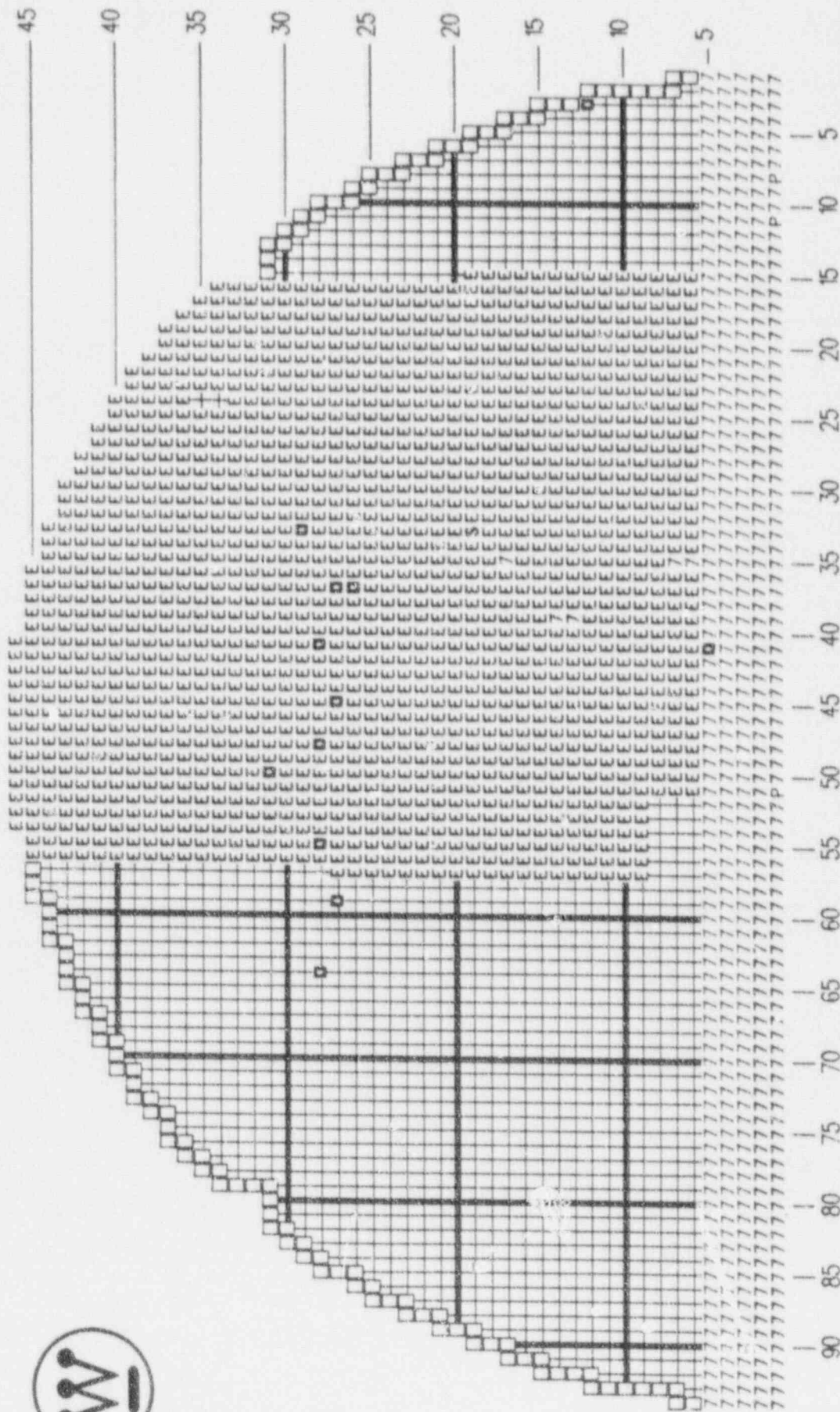
J. M. Farley Unit 1 ALA-B SERIES 51

04-22-1991 12:12 HRS. SUPERTUBIN



1558 TESTED TEH THROUGH TEC  
 1 TESTED TSH THROUGH TEC  
 284 TESTED 7C THROUGH TEC  
 187 TESTED 7H THROUGH TEC  
 3 NO TEST--TUBES PLUGGED IN C/L  
 12 PLUGGED TUBES

E : : : : :  
 S : : : : :  
 7 : : : : :  
 7 : : : : :  
 P : : : : :  
 □





# HOT LEG #7 TSP RPC TEST PROGRAM

(PLAN 12)

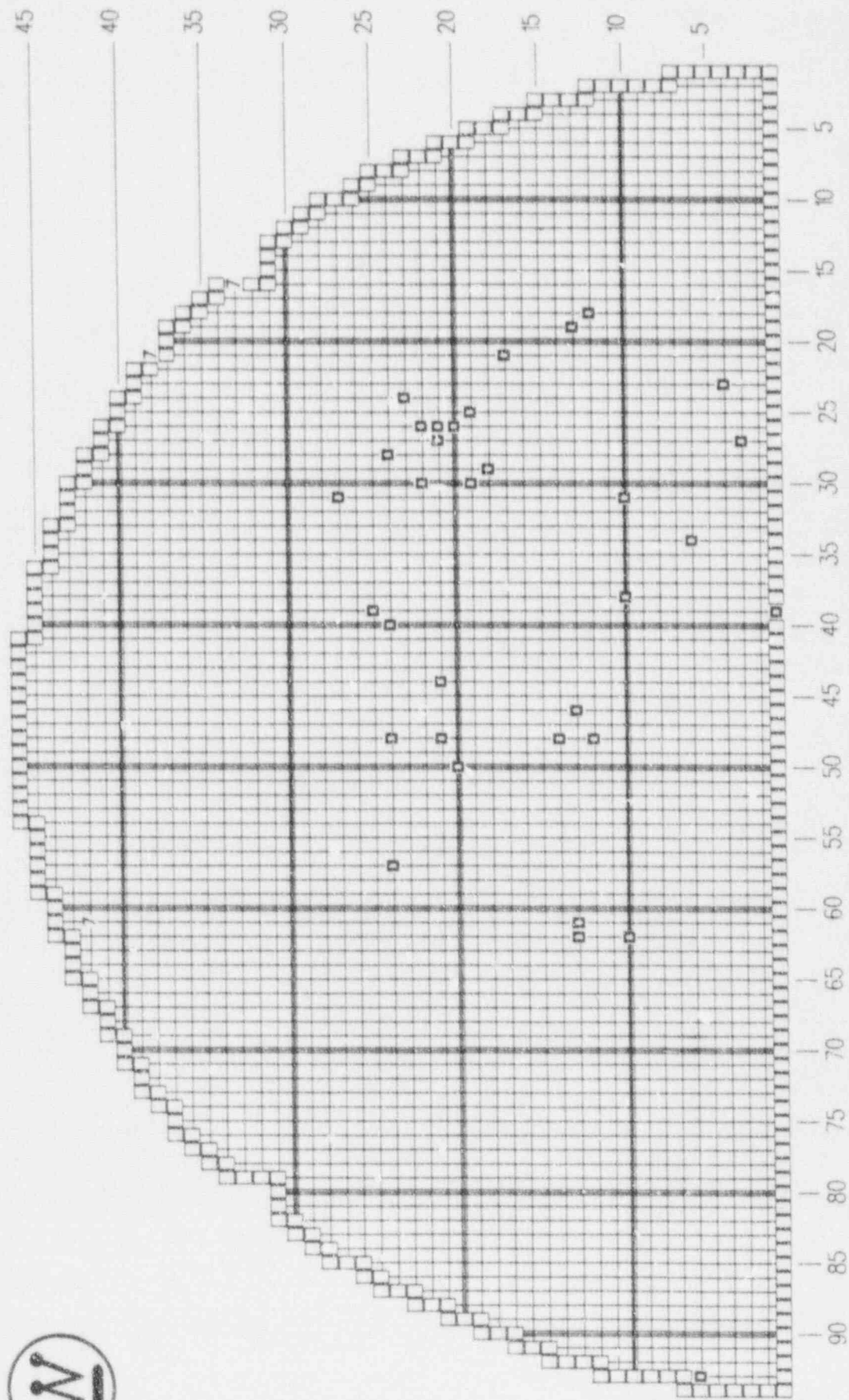
J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 09:23 HRS.

SUPERTUBIN



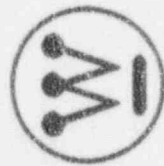
7 : 3 TEST 7H +/- 3"  
□ : 34 PLUGGED TUBES



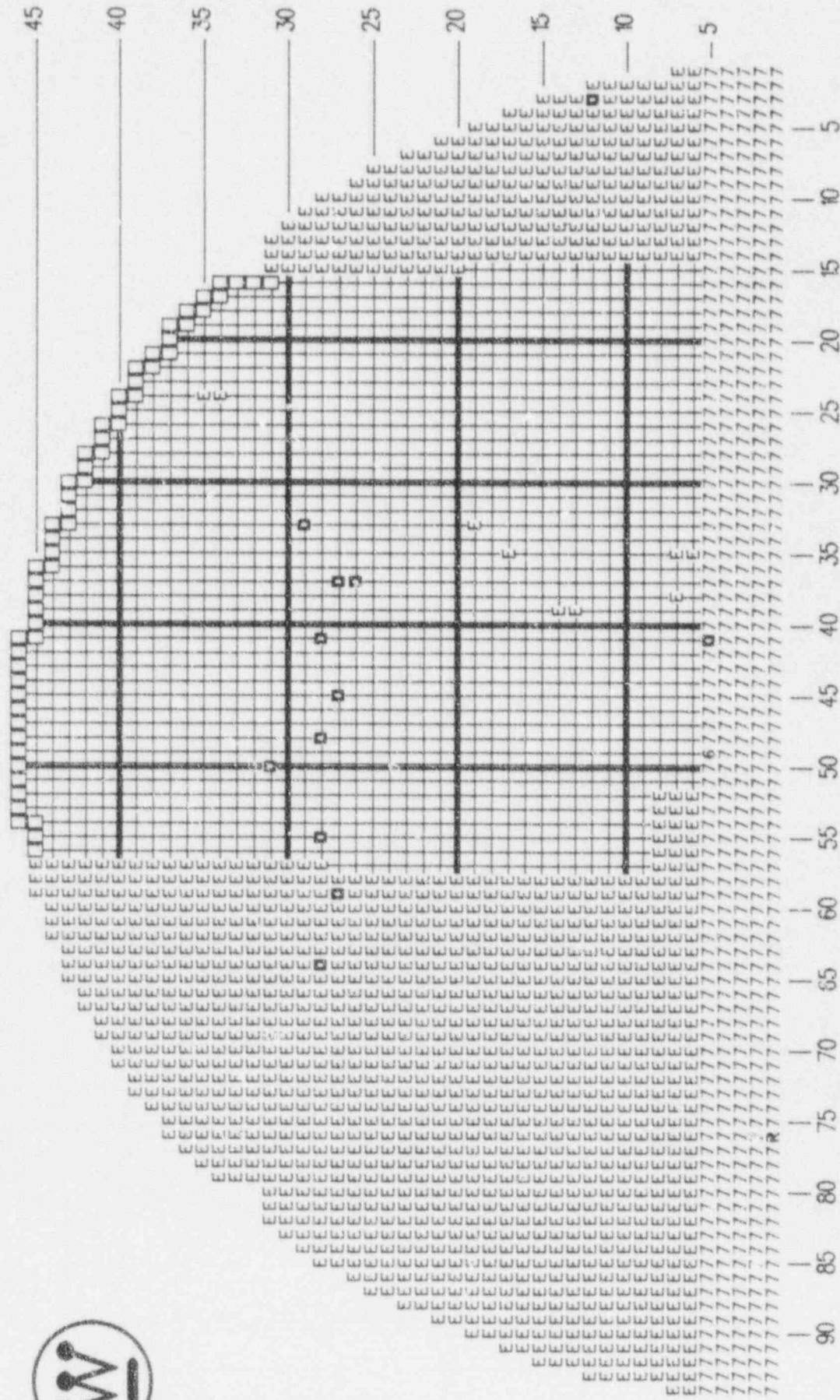
# HOT LEG BOBBIN TEST EXTENTS

J. M. Farley Unit 1 ALA-B SERIES 51

04-22-1991 10:05 HRS. SUPERTUBIN



E : 1350 TESTED TEC THROUGH TEH  
 6 : 1 TESTED 6C THROUGH TEH  
 7 : 280 TESTED 7C THROUGH TEH  
 7 : 187 TESTED 7H THROUGH TEH  
 R : 1 TUBE NOT TESTED--STUCK PLG TOP  
 : 12 PLUGGED TUBES



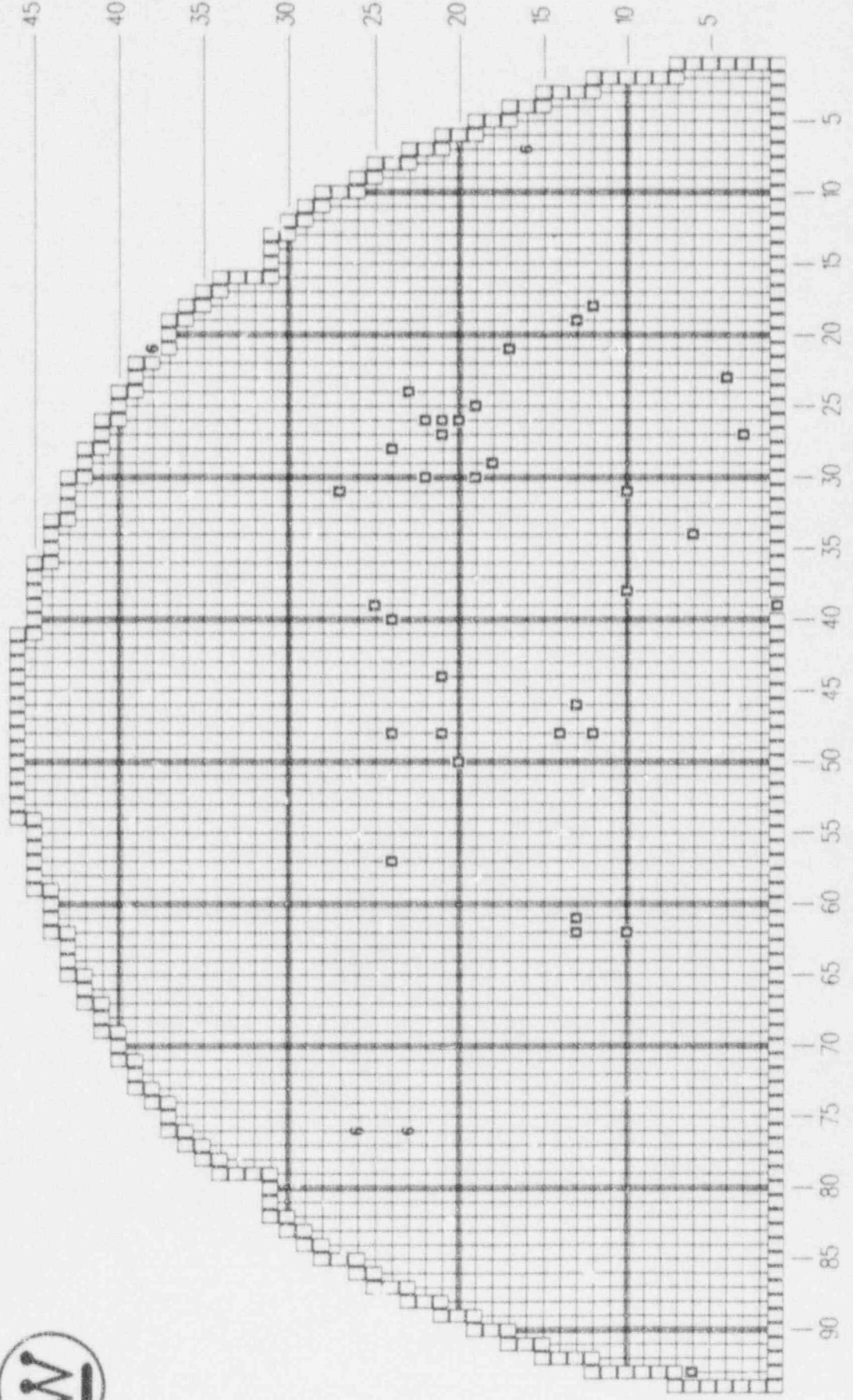
# HOT LEG #6 TSP RPC TEST PROGRAM

(PLAN 11)

J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 09:02 HRS. SUPERTUBIN

6 : 4 TEST 6H +/- 3"  
□ : 34 PLUGGED TUBES





# HOT LEG #5 TSP RPC TEST PROGRAM

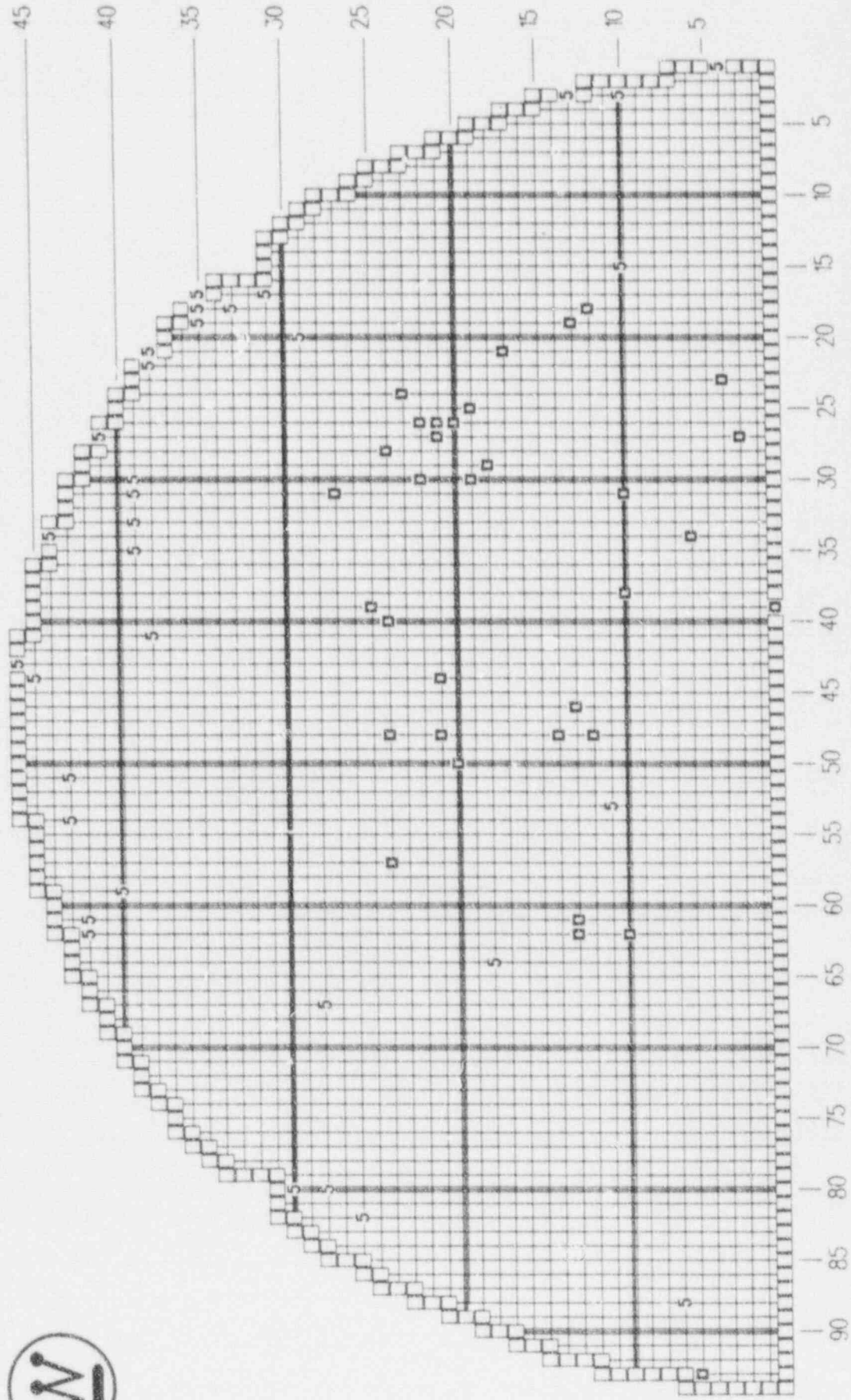
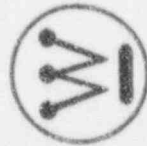
(PLAN 10)

J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 08:55 HRS.

SUPERTUBIN

5 : 33 TEST 5H +/- 3"  
 □ : 34 PLUGGED TUBES



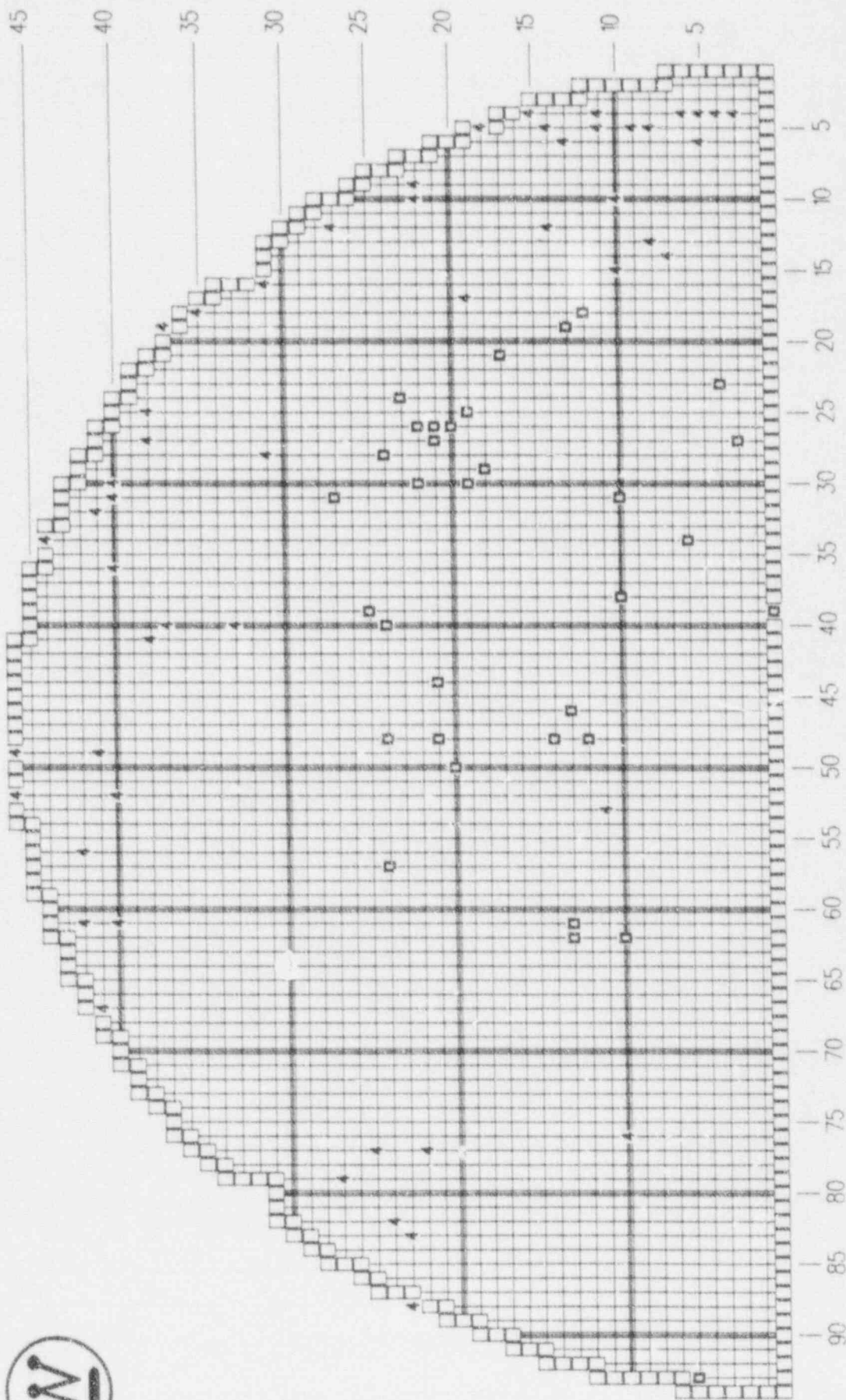
HOT LEG #4 TSP RPC TEST PROGRAM.  
(PLAN 9)

J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 08:03 HRS. SUPERTUBIN



4 : 52 TEST 4H +/- 3"  
□ : 34 PLUGGED TUBES





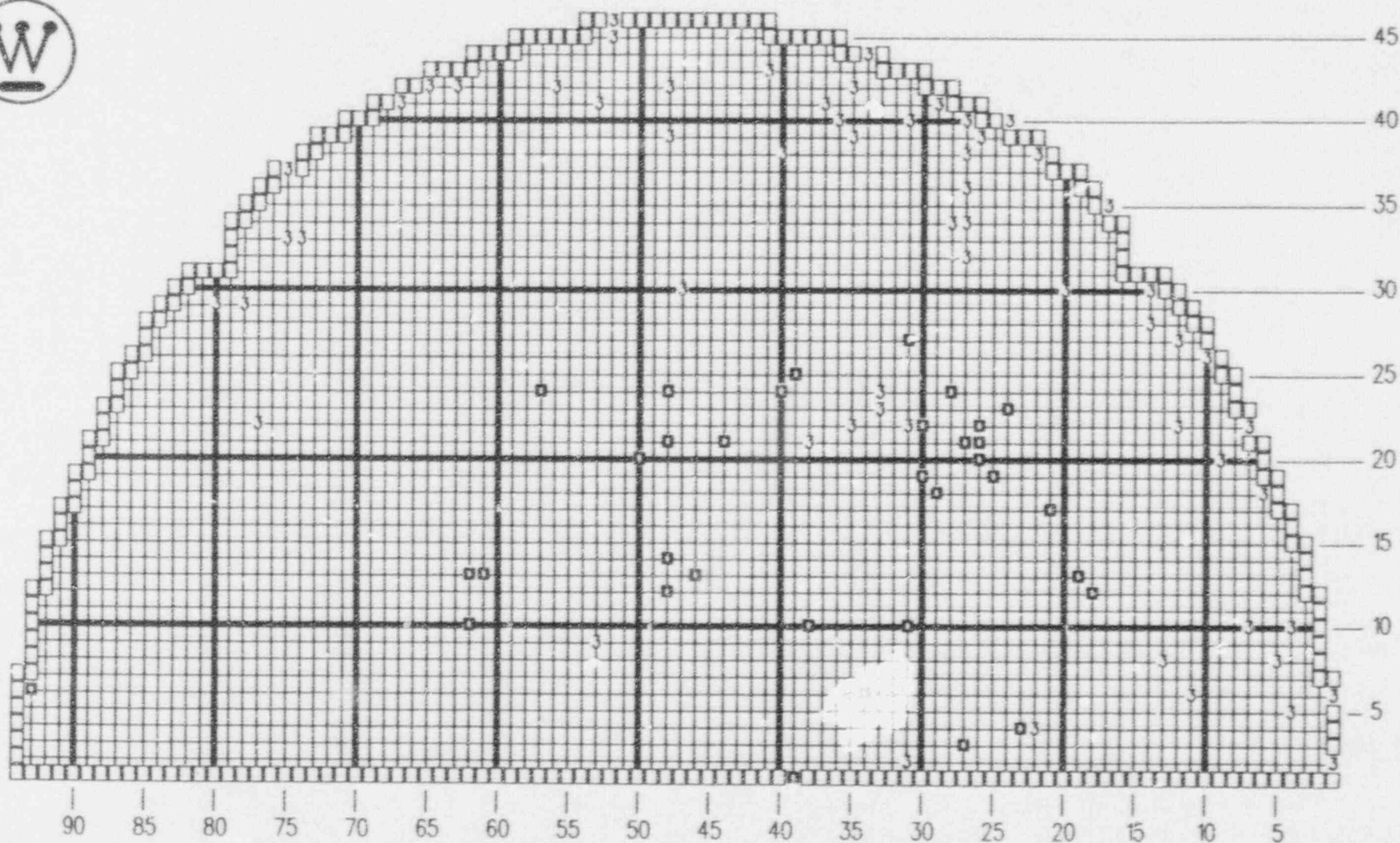
# HOT LEG #3 TSP RPC TEST PROGRAM

(PLAN 8)

J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 07:58 HRS. SUPERTUBIN

3 : 60 TEST 3H  $\pm$  3"  
■ : 34 PLUGGED TUBES



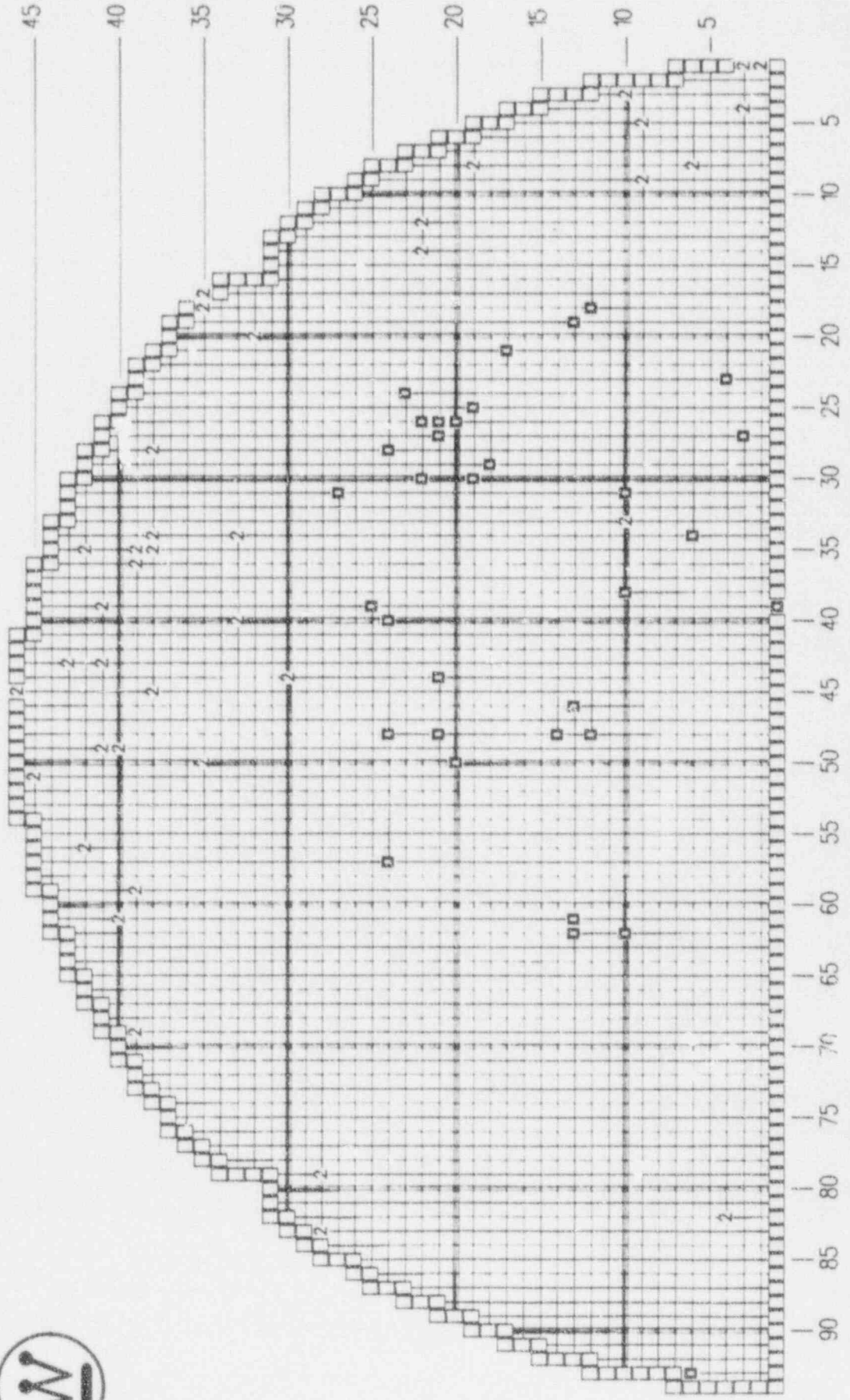
# HOT LEG #2 TSP RPC TEST PROGRAM

(PLAN 7)

J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 07:46 HRS. SUPERTUBIN

2 : 39 TEST 2H +/- 3"  
 □ : 34 PLUGGED TUBES



# HOT LEG #1 TSP RPC PROGRAM

(PLAN 6)

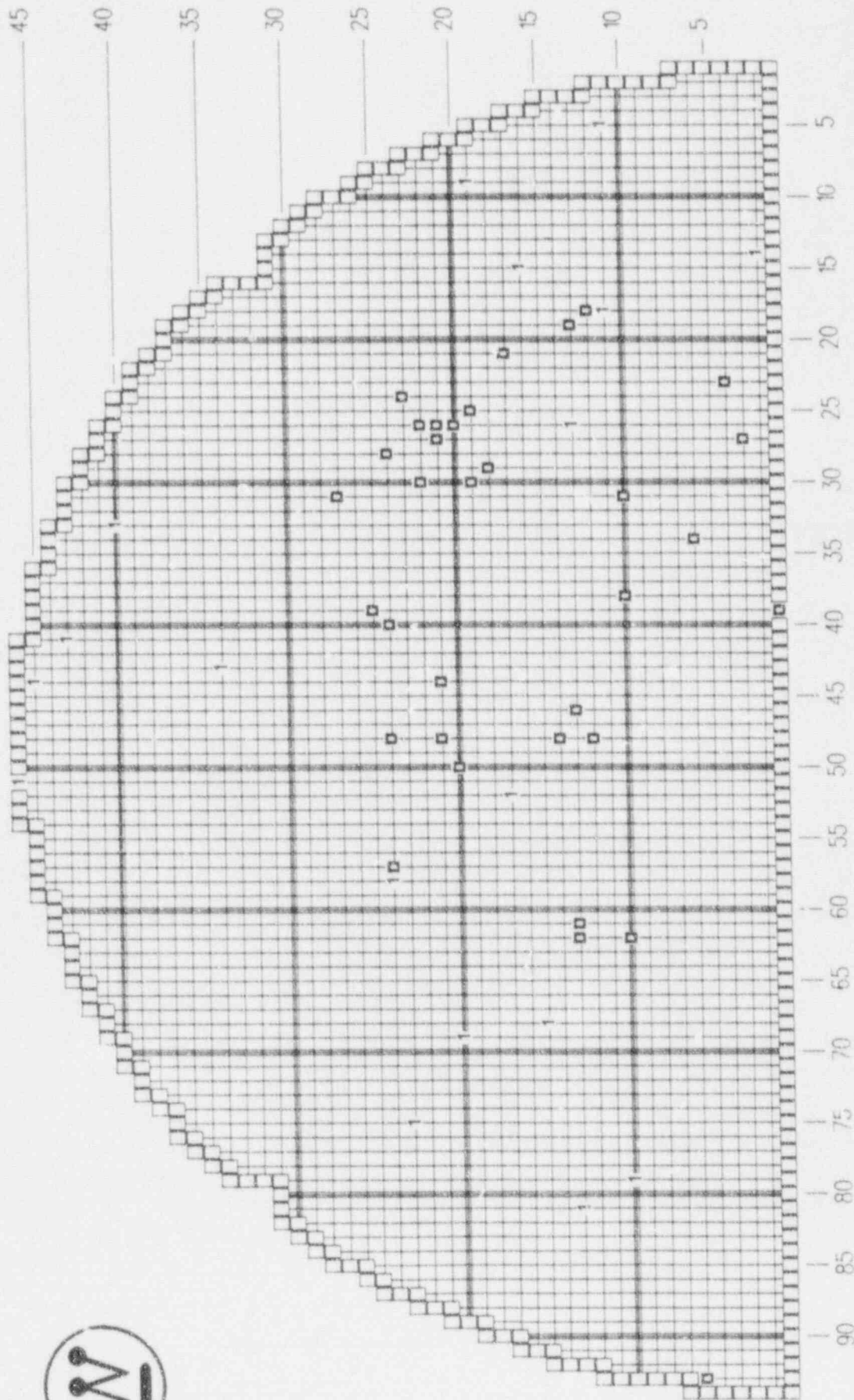
J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 07:54 HRS.

SUPERTUBIN



1 : 18 TEST 1H  $\pm 3''$   
□ : 34 PLUGGED TUBES





# U-BEND RPC PROGRAM

(PLAN 5)

J. M. Farley Unit 1

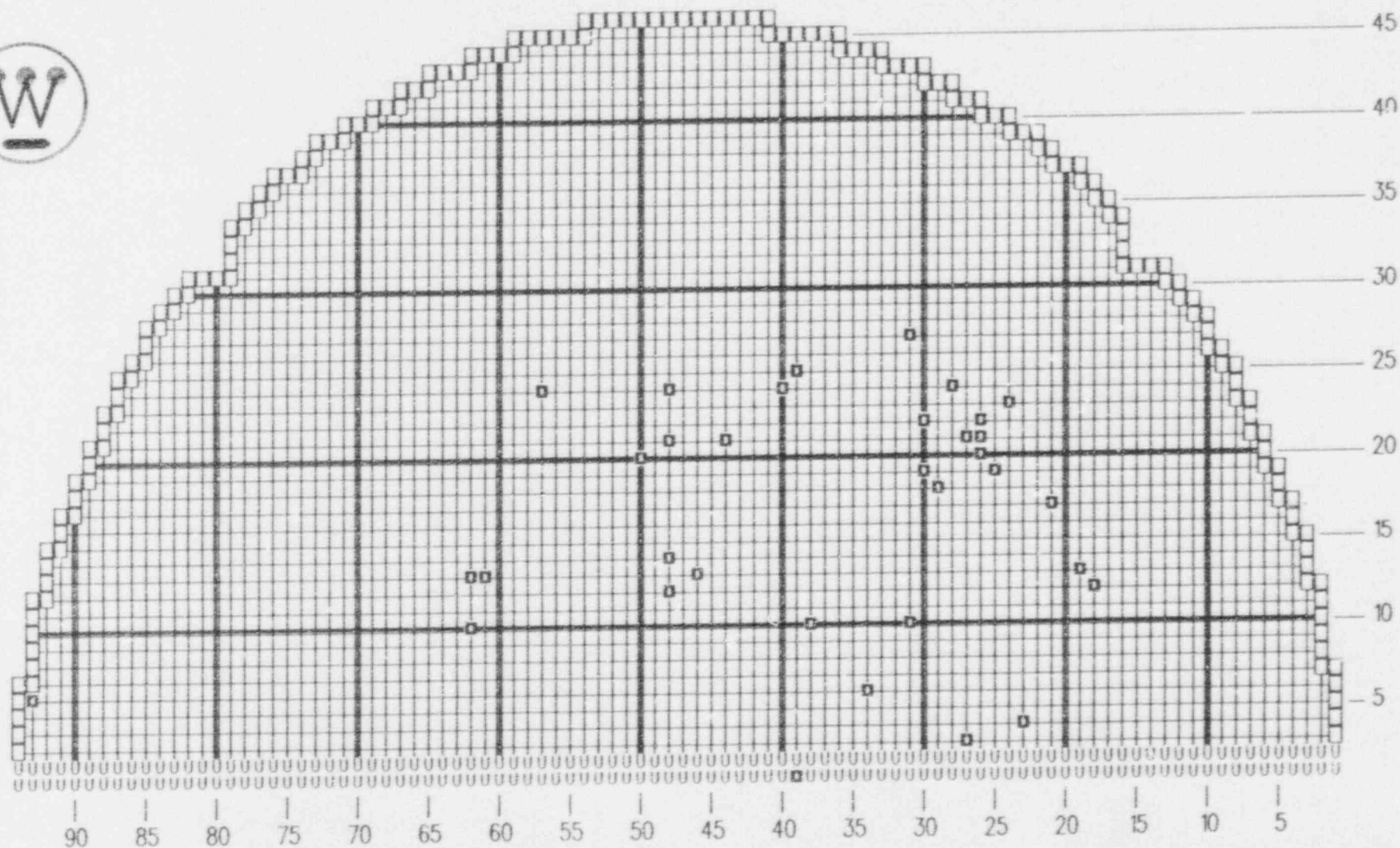
ALA-C SERIES 51

04-22-1991

10:46 HRS.

SUPERTUBIN

U : 187 TEST 7C THROUGH 7H  
□ : 34 PLUGGED TUBES





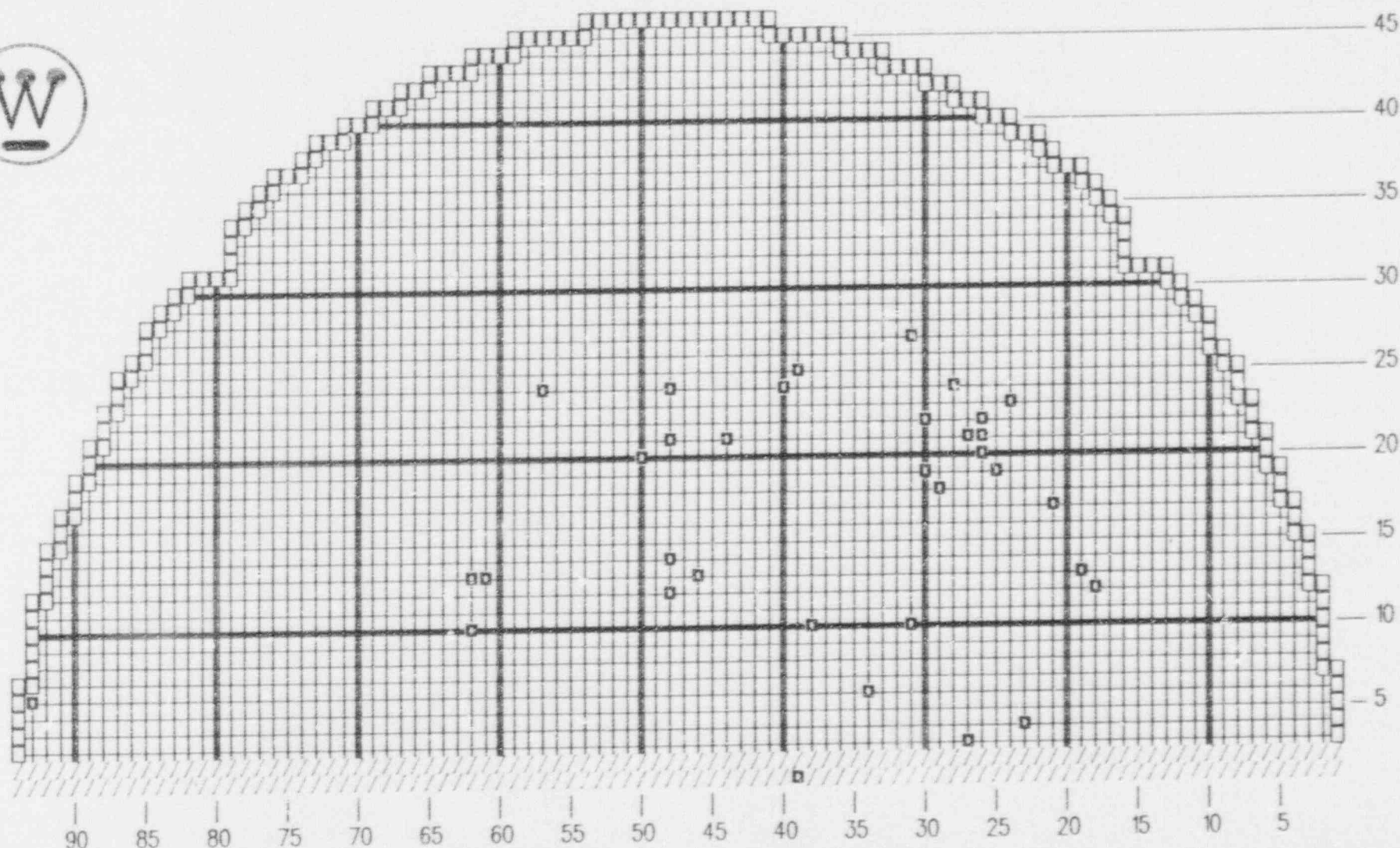
# U-BEND BOBBIN TEST PROGRAM

(PLAN 4)

J. M. Farley Unit 1 ALA-C SERIES 51

04-22-1991 10:41 HRS. SUPERTUBIN

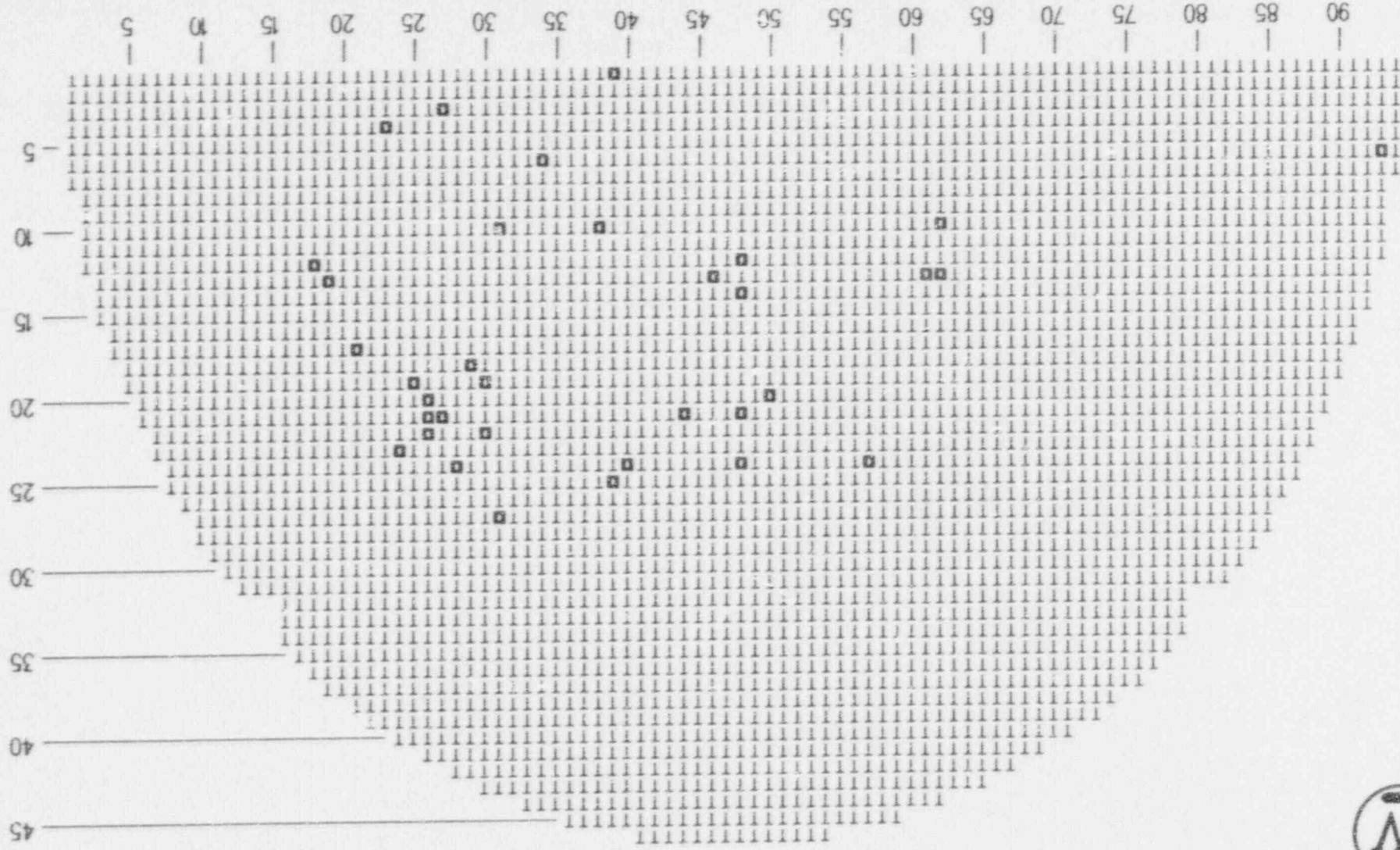
/ : 187 TEST 7C THROUGH 6H  
□ : 34 PLUGGED TUBES



# HOT LEG TOP-OFF-TUBESHEET RPC PROGRAM

(PLAN 3)  
J. M. Farley Unit 1 ALA-C SERIES 51

04-14-1991 16:43 HRS. SUPERTUBIN



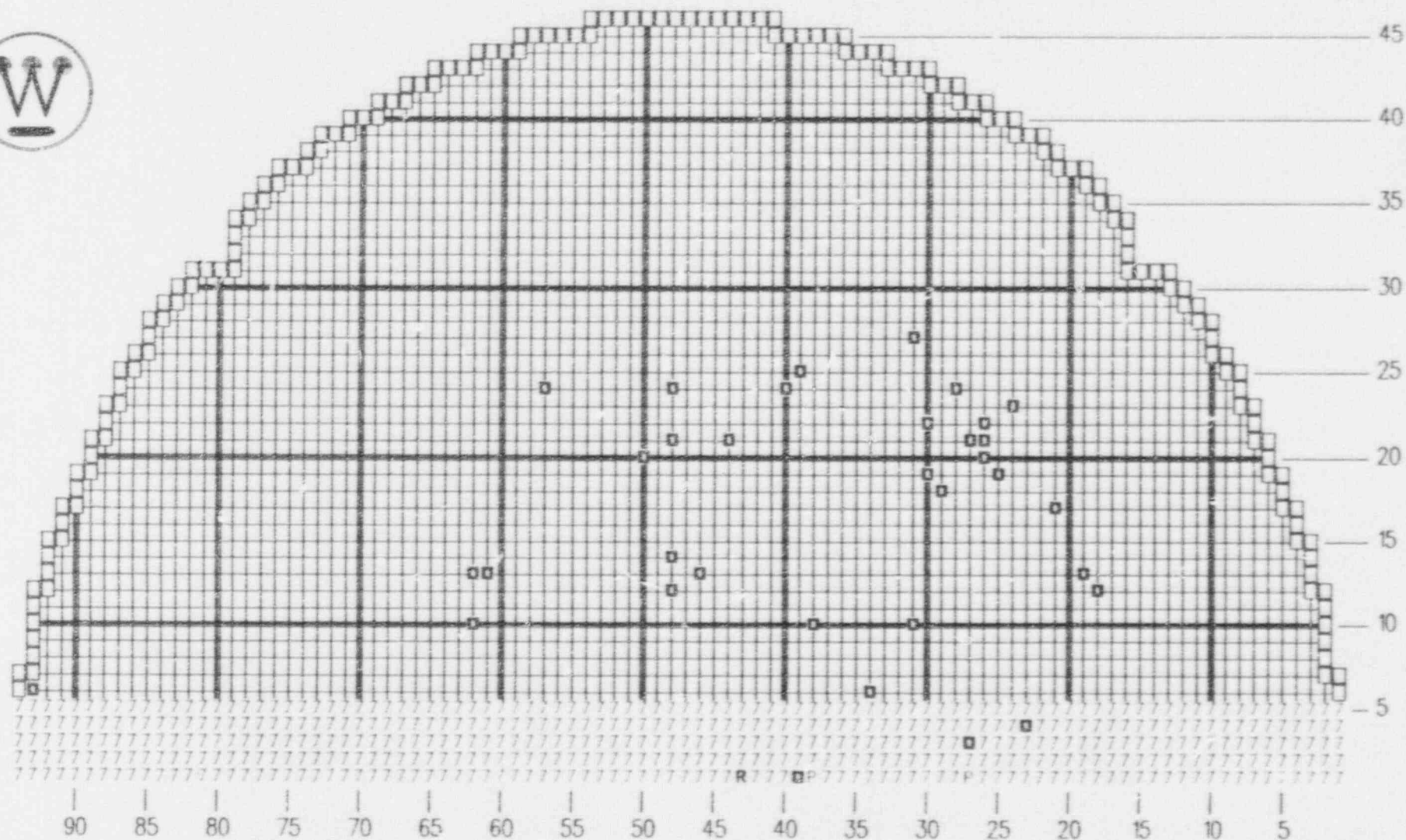
T : 3354 TEST TSH +/- 3"  
□ : 34 PLUGGED TUBES

# COLD LEG BOBBIN TEST EXTENTS

7 : 464 TESTED 7C THROUGH TEC  
R : 1 NO TEST--STUCK PLUG TOP  
P : 2 TUBES PLUGGED IN COLD LEG ONLY  
□ : 34 PLUGGED TUBES

J. M. Farley Unit 1 ALA-C SERIES 51

04-22-1991 13:56 HRS. SUPERTUBIN





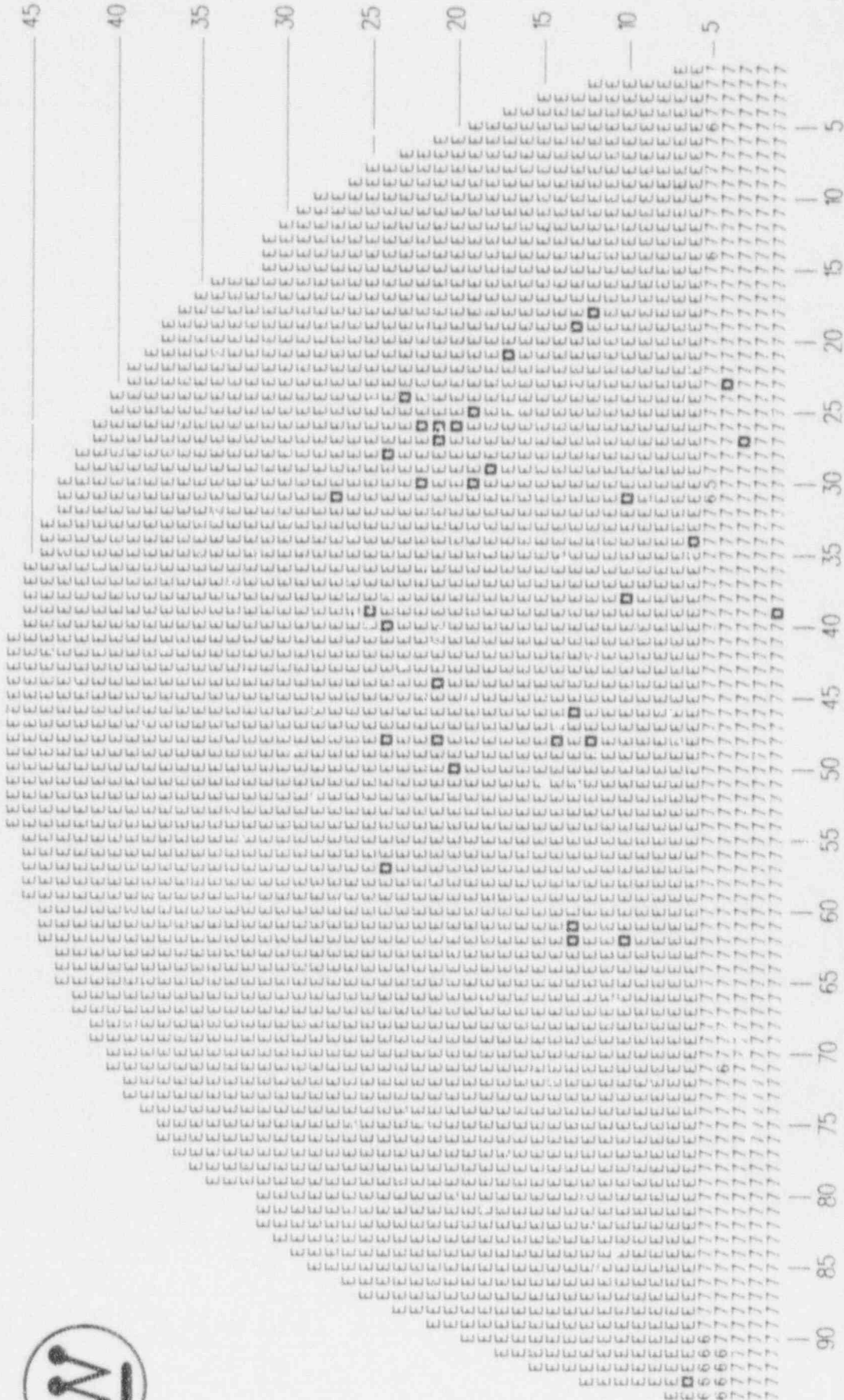
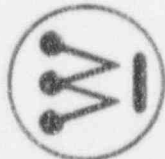
# HOT LEG BOBBIN TEST EXTENTS

E : 2867 TESTED TEC THROUGH TEH  
5 : 1 TESTED 5C THROUGH TEH  
6 : 13 TESTED 6C THROUGH TEH  
7 : 453 TESTED 7C THROUGH TEH  
34 PLUGGED TUBES

J. M. Farley Unit 1 ALA-C SERIES 51

04-15-1991 08:17 HRS.

SUPERTUBIN





# HOT LEG TUBES TESTED WITH UTEC SYSTEM

(RESULTS PRESENTED IN A SEPARATE REPORT)

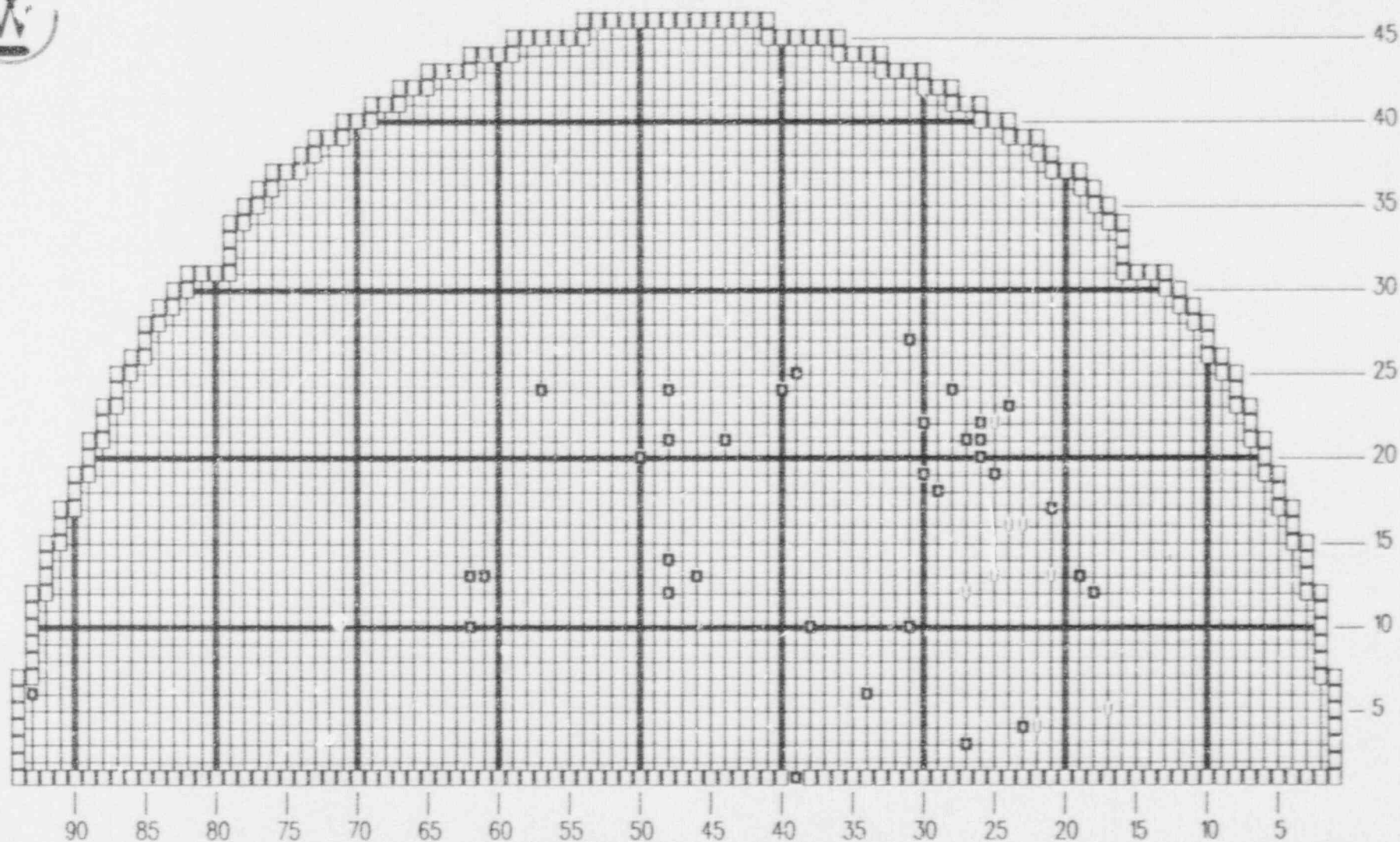
J. M. Farley Unit 1 ALA-C SERIES 51

04-23-1991

15:30 HRS.

SUPERTUBIN

U : 8 TUBES TESTED WITH UTEC  
□ : 34 PLUGGED TUBES



## RESULTS INDEX

<u>CLASS 1</u>	<u>TAB</u>
Reactor Vessel	1.1
Pressurizer	1.2
Heat Exchangers and Steam Generators	1.3
Piping	1.4
Pumps	1.5
Valves	1.6

<u>CLASS 2</u>	<u>TAB</u>
Pressure Vessels	2.1
Piping	2.2
Pumps	2.3
Valves	2.4

<u>HANGERS AND SUPPORTS</u>	<u>TAB</u>
Class 1	IWF (1.1)
Class 2	IWF (2.1)

NO EXAMINATIONS THIS OUTAGE

NO EXAMINATIONS THIS OUTAGE



NO EXAMINATIONS THIS OUTAGE

NO EXAMINATIONS THIS OUTAGE

NO EXAMINATIONS THIS OUTAGE

NO EXAMINATIONS THIS OUTAGE



SKETCH ALA 2-3500

[illegible]

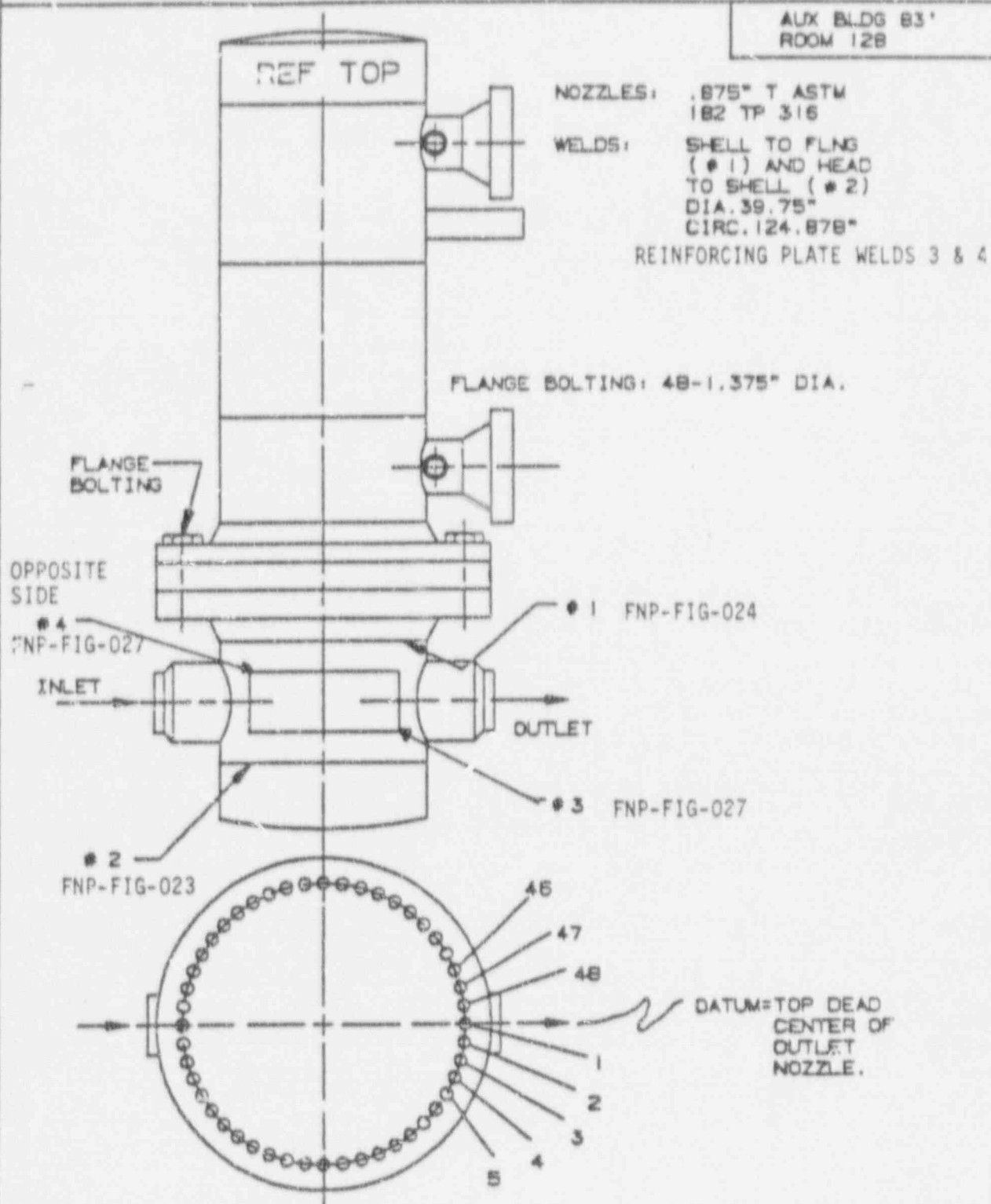
"ILLUSTRATIVE ONLY"

ALA2-3500

## RESIDUAL HEAT EXCHR. (A)

CAL. BLK. ALA-32

MATL: SHELL: .875" T ASTM 240 TP 3045ST 01E11H001A

AUX BLDG 83  
ROOM 12B

REV 3

A.MILR.3D21124.02.004.122188

# Surface Examination Record Farley Nuclear Plant

Alabama Power 

NDE Program Nuclear Generation Department  
NDE Form - 002

<input checked="" type="checkbox"/> Unit 1 <input type="checkbox"/> Unit 2 <input type="checkbox"/> Shared	TPNS Number <u>QIEIHO01A</u>	System/Component <u>RHR</u>	Location <u>Rm. 128</u>	MWR <u>91255</u>
HEAT EXCHANGER AUX. Bldg. 83 EL.			SW	

Procedure/Revision: NDE-PT-001 REV. 7 Traveler No./Drawing No.: AIA 2-3500

Acceptance Standard: ASME SECTION XI App. B-5

Description: SUPPORT PLATE TO VESSEL HEAD, SUPPORT PLATE TO NOZZLE (OUTER WEID #3) AIA 2-3500

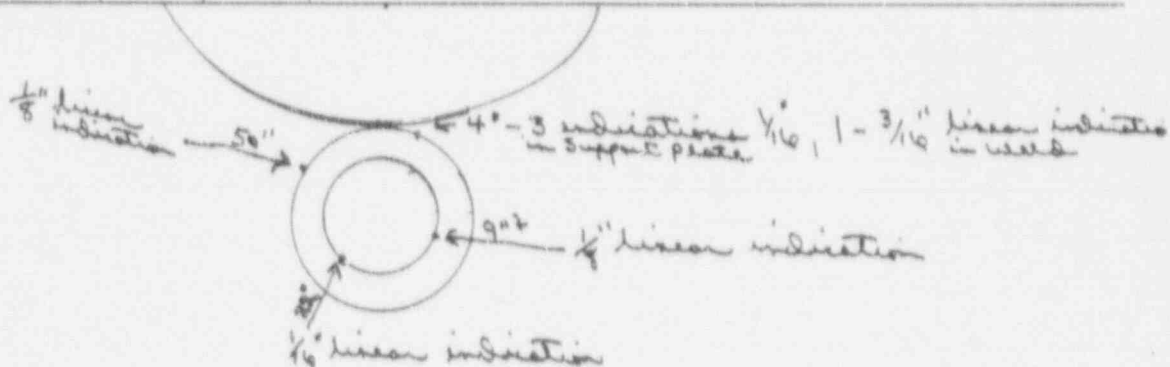
Material Type: ☐ C/S ☒ S/S ☐ Other

Thermometer: FNP I.D. DT-3 Cal. Due Date 6-3-91

PT Materials		RTYPE L1.07	MT Equipment		RTYPE L1.03
Method:	<input checked="" type="checkbox"/> Color Contrast	<input type="checkbox"/> Fluorescent			
Cleaner	Type: <u>SKC-NF</u>	Batch No: <u>90H08K</u>	MT Yoke Type: _____		
Penetrant	<u>SKL-HF/S</u>	<u>90H03K</u>	S/N: _____ Pole Spacing: _____		
Developer	<u>SKD-NF</u>	<u>90L01P</u>	MT Material: _____		
			MT Powder Color: _____		
			Batch No: _____		

Item No.	Surface Temp.	Results			Remarks (Description, Exam Limitations, etc.)
		NI	NRI	RI	
W-3	73°F			✓	SEVERAL LINEAR INDICATIONS

Sketch



Corrective Action (Attach additional sheets if necessary)

Examiner <u>Shucklight</u>	Level <u>II</u>	Date <u>3-22-91</u>	Time <u>4:00 P.M.</u>
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NO EXAMINATIONS THIS OUTAGE



NO EXAMINATIONS THIS OUTAGE

NO EXAMINATIONS THIS OUTAGE



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## SUPPORTS AND HANGERS CLASS I

SHEET 1 OF 12

ITEM No.	W SK No. (CV SK No.)		SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
1	ALAI-4100		U261454-5	C105		A
2			D176238	C105		H
3			U199708,709	C105		
4	ALAI-4101		RHR-R93	C105		R
5			RHR-R95	C105		R
6			RHR-R94	C108		V
7			RHR-R110	C105		R
8			RHR-R97	C105	2/X	H
9			RHR-R98	C105	2/X	H
10			RHR-R99	C105	2/X	R
11			RHR-R100, R101	C105	3/X	R
12	ALAI-4102		SI-R111	C129		R
13			SI-R113	C129	2/X	2/R
14			SI-R114	C129		V
15			SI-R115	C129		R
16			SI-R309	C127		R
17			SI-R310	C119		R
18			SI-R116	C118	2/X	2/R
19			SI-R117	C117		H
20			SI-R118	C118		R
21			SI-R119	C118		R
22			SI-R121	C110		R
23			SI-R120	C110		V
24	ALAI-4103		SI-R229	C126		H
25			SI-R228	C126		R
26			SI-R220	C120		H
27			SI-R221	C120		H
28			SI-R222	C120		H
29			SI-R223	C120	B/X	2/R
30			SI-R224	C114		H
31			SI-R225	C114		H
32			SI-R226	C114		H
33			SI-R230	C114	B/X	2/R
34			SI-R231	C114	B/X	2/R
35			SI-R233	C123		H
36			SI-R232	C123		H

REV. 3



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## SUPPORTS AND HANGERS CLASS I

SHEET 2 OF 12

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
37	ALAI-4103	SI-R234	C122	B/X	2/R
38	ALAI-4104	SI-R201	C118		R
39		SI-R202	C122		R
40		SI-R199	C118		R
41		SI-R198	C118		H
42		SI-R197	C118	B/X	2/R
43		SI-R260	C118		R
44		SI-R196	C116		H
45		SI-R190	C112	B/X	2/R
46		SI-R189	C112		R
47		SI-R191	C105		H
48		SI-R258	C115	B/X	2/R
49		SI-R214	C115		H
50		SS-4622	C105		H
51	ALAI-4105	RC-R48	C124		H
52		RC-R49	C121		H
53		RC-R47	C121		V
54		RC-R46	C121	B/X	2/R
55		RC-R45	C121		R
56		RC-R43	C121		V
57		RC-R42	C121		H
58		RC-R44	C121	B/X	2/R
59		RC-R41	C121		V
60		RC-R40	C122	B/X	2/R
61		RC-R39	C122		H
62		RC-R23, R25	C131		H
63		RC-R21	C136	4/X	2/V
64		RC-R19	C158		H
65		RC-R17	C170	4/X	4/V
66		RC-R12, R13	C173	16/X	4/R
67		RC-R14	C172		H
68	ALAI-4106	CVCS-R517	C125		R
69		CVCS-R681	C119		R
70		CVCS-R519	C119	X	2/V
71		CVCS-R520	C119	2/X	H
72		CVCS-R521	C119		H
73		CVCS-R530	C119		R

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## SUPPORTS AND HANGERS CLASS I

SHEET 3 OF 12

ITEM No.	W SK No. (CV SK No.)		SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
74	ALAI-4106		CVCS-#529	C119		H
75			CVCS-#528	C119	2/X	2/R
76			CVCS-#525	C119		R
77			CVCS-#526	C119		R
78			CVCS-#527	C119		V
79	ALAI-4107		RTD-R241	C124		H
80			RTD-R61	C125		R
81			RTD-R60	C124		H
82			RTD-R59	C125		R
83			RTD-R58	C124		H
84			RTD-R57	C125		R
85			RTD-R55	C124		H
86			RTD-R56	C125		R
87			RTD-R53	C124		H
88			RTD-R54	C124		H
89			RTD-R244	C124		R
90	ALAI-4108		CVCS-R684	C108		R
91			CVCS-R493	C107		R
92			CVCS-R494	C107	2/X	2/R
93			CVCS-R495	C107		V
94			CVCS-R496	C107		R
95			CVCS-R669	C107		R
96			CVCS-R500	C106		V
97	ALAI-4109		SS-4140	C125		H
98			SS-4141	C125		3/RM
99			SS-4142	C125		RM
100			SS-4143	C125		RM
101	ALAI-4110		RTD-R46	C124		H
102			RTD-R45	C124		2/R
103			RTD-R50	C125		R
104			RTD-R47	C124		H
105			RTD-R48	C124		H
106			RTD-R245	C124		RM
107			RTD-R52	C125		R
108			RTD-R51	C124		H
109	ALAI-4111		RTD-H66	C127		V
110			RTD-H67	C127		R

REV 3

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## SUPPORTS AND HANGERS CLASS I

SHEET 4 OF 12

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
111	ALA1-4111	RTD-R242	C126		R
112		RTD-R243	C126		R
113		RTD-R65	C126		H
114	ALA1-4112	SS-1992	C118		RM/V
115		SS-1990	C118		RM/V
116		SS-1991	C118		H
117		SS-1993	C118		H
118	ALA1-4200	U-261454, 5	C105		A
119		U-199708, 709	C105		H
120		D-176238	C105		H
121	ALA1-4201	SI-R175	C105		R
122		SI-R174	C105	X	2/R
123		SI-R173	C105		R
124		SI-R172	C123		R
125		SI-R311	C119		R
126		SI-R177	C115	4/X	H
127		SI-R176	C107		R
128		SI-R167	C107	2/X	H
129	ALA1-4202	SI-R164	C126		R
130		SI-R163	C123	B/X	H
131		SI-R162	C118		H
132		SI-R267	C115	B/X	2/R
133		SI-R161	C118		H
134		SI-R160	C112		H
135		SI-R159	C112		H
136		SI-R158	C112		H
137	ALA1-4203	SI-A14	C112	X	A
138		SI-R178	C114		H
139		SI-R182	C112	B/X	2/R
140		SI-R180	C112		H
141		SI-R219	C113		H
142		SI-R218	C113		H
143		SI-R216	C114	B/X	2/R
144		SI-R215	C114		H
145		SI-R195	C118		R
146	ALA1-4204	SI-R245	C126		R
147		SI-R244	C114		R

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## SUPPORTS AND HANGERS CLASS I

SHEET 5 OF 12

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
148	ALA1-4204	SI-R246	C117	B/X	H
149		SI-R242	C114		R
150		SI-R243	C114		H
151		SI-R241	C114	B/X	2/R
152		SI-R240	C114		H
153		SI-R239	C114		H
154		SI-R238	C114		H
155		SI-R247	C114		H
156		SI-R249	C115	B/X	H
157		SI-R248	C120	B/X	2/R
158		SI-R250	C120		H
159		SI-R251	C120		H
160		SI-R252	C120		H
161		SI-R253	C120		H
162		SI-R254	C120		H
163		SI-R235, R237	C120		H
164		SI-R236	C120	B/X	2/R
165	ALA1-4205	RC-R32	C123		R
166		RC-R27	C121		R
167		RC-R26	C121		H
168		RC-R29	C121		H
169		RC-R237	C121		R
170		RC-H38	C121		V
171		RC-R31	C121		R
172		RC-R34	C121		R
173		RC-R35	C121		V
174		RC-R36	C121		H
175		RC-R37	C121		R
176		RC-R30	C122	4/X	2/V
177		RC-R22	C125		H
178		RC-R24	C125		H
179		RC-R20	C131	4/X	2/V
180		RC-R18	C159		H
181		RC-R16	C171	4/X	2/V
182		RC-R15	C173		H
183		RC-R11	C175		R

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## SUPPORTS AND HANGERS CLASS I

SHEET 6 OF 12

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
184	ALAI-4205	RC-R10	C175		R
185		RC-R9	C174		V
186		RC-R8	C174		H
187		RTD-R2	C124		H
188	ALAI-4206	RTD-R1	C124		R
189		RTD-R3	C124	B/X	2/R
190		RTD-R4	C124		R
191		RTD-R5	C124		H
192		RTD-R6	C124		H
193		RTD-R8	C124		R
194		RTD-R9	C124		H
195		RTD-R10, R11	C125		R
196		RTD-R12	C126		R
197		RTD-R13	C127		R
198		RTD-R14	C127		H
199	ALAI-4207	CVCS-R515	C125		R
200		CVCS-R682	C119		R
201		CVCS-R514	C119		V
202		CVCS-R513	C119		H
203		CVCS-R512	C119	2/X	H
204		CVCS-R511	C119	2/X	H
205		CVCS-R510	C119	2/X	H
206		CVCS-R509	C119		H
207		CVCS-R508	C119		H
208		CVCS-R507	C105	2/X	H
209	ALAI-4208	CVCS-R505	C105	2/X	H
210		SS-4047	C118		V
211		SS-4046	C118		H
212		SS-4024	C118		H
213		SS-4023	C118		H

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## SUPPORTS AND HANGERS CLASS I

SHEET 7 OF 12

ITEM No.	W SK No. (CV SK No.)		SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
214	ALAI-4208		SS-4022	C115		H
215			SS-6121	C112		H
216	ALAI-4209		SS-5687	C123		RM
217			SS-5688	C123		H
218			SS-5685	C123		RM
219			SS-5686	C127		V
220	ALAI-4210		SS-4168	C105		RM
221	ALAI-4211		RTD-R16	C125		H
222			RTD-R17	C122	B/X	2/R
223			RTD-R19	C122		R
224			RTD-R18	C122		R
225			RTD-R250	C122		V
226			RTD-R251	C122		R
227			RTD-R21	C123		R
228			RTD-R20	C122		H
229	ALAI-4212		RTD-R7	C126		R
230			RTD-H15	C129	4/X	2/V
231	ALAI-4300		U-261454,5	C105		A
232			U-199708,9	C105		H
233			D-176238	C105		H
234	ALAI-4301		RHR-R105	C107		R
235			RHR-R106	C107		R
236			RHR-R107	C107		V
237			RHR-R108	C107		R
238			RHR-R104	C107	B/X	2/R
239			RHR-R102	C107	4/X	H
240			RHR-R103	C107	2/X	2/R
241	ALAI-4302		SI-R124	C129	2/X	2/R
242			SI-R125	C129		R
243			SI-R312	C129		R
244			SI-R127	C129		R
245			SI-R128	C129	2/X	H

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## SUPPORTS AND HANGERS CLASS I

SHEET 8 OF 12

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
246	ALA1-4302	SI-R129	C117		R
247		SI-R131	C109		R
248		SI-H130	C113		V
249		SI-R262	C124		R
250	ALA1-4303	SI-R149	C124	2/X	H
251		SI-R261	C123	X	2/R
252		SI-R148	C119	8/X	H
253		SI-R147	C119		H
254		SI-R146	C119	2/X	2/R
255		SI-R145	C119		H
256		SI-R144	C119		H
257		SI-R143	C119	8/X	H
258		SI-R142	C119		H
259		SI-R141	C119		R
260		SI-R156	C119	X	2/R
261		SI-R140	C118		H
262		SI-R139	C118		R
263		SI-R138	C118		H
264		SI-R137	C118		H
265		SI-R157	C129	2/X	2/R
266		SI-R135	C118		H
267		SI-R136	C118		H
268		SI-R134	C117	4/X	H
269		SI-A15	C114	X	A
270		SI-R179	C114		H
271		SI-R181	C114		H
272		SI-R217	C113	2/X	H
273		SI-R212	C113		H
274		SI-R264	C114		R
275		SI-R211	C114		H
276		SI-R263	C114	2/X	2/R
277		SI-R210	C114		H
278		SI-R213	C114		R
279	ALA1-4304	SI-R155	C126		R
280		SI-R154	C129	X	2/R
281		SI-R153	C129		H

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## SUPPORTS AND HANGERS CLASS I

SHEET 9 OF 12

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
282	ALAI-4304	SI-R152	C129		R
283		SI-R151	C129	2/X	2/R
284		SI-R150	C129	X	H
285		SI-R265	C126		H
286	ALAI-4305	SI-R266	C126		R
287		SS-4028	C119		H
288		SS-4027	C118		H
289		SS-4026	C118		H
290		SS-4025	C118		H
291		SS-4024	C118		H
292		SS-4023	C118		H
293		SS-4022	C118		H
294		SS-4021	C118		H
295		SS-4020	C119		H
296		SS-4014	C119		H
297		SS-4012	C119		H
298		SS-4003	C118		H
299		SS-4002	C118		H
300		RTD-R27	C120	8/X	2/R
301		RTD-R28	C120		R
302		RTD-R32	C120		H
303		RTD-R35	C124		H
304		RTD-R36	C124		R
305		RTD-R38	C124		H
306		RTD-R37	C127		R
307		RTD-R39	C128		R
308		RTD-R40	C128		H
309	ALAI-4307	SS-4101	C131		H
310		SS-4102	C131		H
311		SS-4104	C131		RM
312		SS-4103	C131		RM
313		SS-4105	C125		H
314		SS-4038	C117		H
315		SS-4037	C117		H

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## SUPPORTS AND HANGERS CLASS I

SHEET 10 OF 12

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
316	ALA1-4308	SS-2000	C117		H
317		SS-4000	C117		H
318		SS-1998	C117		H
319		SS-1997	C120		H
320		SS-1996	C120		H
321		SS-1995	C120		H
322		SS-4137	C121		H
323		SS-1994	C120		H
324	ALA1-4309	SS-4302	C121		H
325		SS-4301	C124		RM
326		SS-4300	C124		RM
327		SS-4299	C124		V
328	ALA1-4311	RTD-R22	C124		R
329		RTD-R25	C120	B/X	H
330		RTD-R24	C119		R
331		RTD-R26	C118		R
332		RTD-R30	C116		R
333		RTD-H31	C116		V
334		RTD-R33	C116		R
335		RTD-R34	C116		R
336		RTD-R29	C117		R
337	ALA1-4312	RTD-R41	C128	B/X	2/R
338		RTD-H43	C128		V
339		RTD-R42	C128		R
340		RTD-H44	C128		R
	ALA1-4500				
342		RC-R1	C123		2/V
343		RC-R7	C123		2/R
344		RC-R2	C123		2/V
345	ALA1-4501	RC-R212	C169		R
346		RC-R211	C167	4/X	2/V
347		RC-R213	C168		H
348	ALA1-4502	RC-R219	C155		R
349		RC-R220	C167	4/X	2/V
350		RC-R100	C168		H

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## SUPPORTS AND HANGERS CLASS I

SHEET 11 OF 12

ITEM No.	W SK No. (CV SK No.)	ISI IDENT.	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.	
351	ALAI-4503		RC-R226	C169	4/X	R	
352			RC-R225	C167		2/V	
353			RC-R224	C168		R	
354	ALAI-4504		RC-R173	C173		R	
355			RC-H77	C172		V	
356			RC-R77X	C172		R	
357	ALAI-4505		RC-R74	C172		R	
358			SS-2030	C173		RM	
359			SS-2029	C172		H	
360			SS-2028	C168		2/V	
361			SS-2027	C166		H	
362			SS-2026	C158		H	
363			SS-2025	C130		H	
364			SS-2024	C144		RM	
365			SS-2023	C143		RM	
366			SS-2021	C138		H	
367			SS-4898	C130		2/C	
368			SS-2020	C130		H	
369			SS-4899	C125		RM	
370			SS-2019	C130		H	
371			SS-2018	C125		H	
372			SS-2017	C125		H	
373			SS-2016	C125		H	
374			SS-2015	C125		H	
375			SS-2014	C125		H	
376			SS-2012, 13	C125		H/RM	
377			SS-2011	C125		RM	
378			SS-2010	C118		H	
379			SS-2009	C115		H	
380			SS-1999	C108		H	
381	ALAI-2100	CS-1	PRESSURIZER SUPPORTS			X	
382	ALAI-3100	CS-1	STEAM GENERATOR-A SUPPORTS				
383		CS-2	STEAM GENERATOR-A SUPPORTS				
384		CS-3	STEAM GENERATOR-A SUPPORTS				

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## SUPPORTS AND HANGERS CLASS I

SHEET 12 OF 12

ITEM No.	W SK No. (CV SK No.)	ISI IDENT.	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
385	ALAI-3100	CS-4	STEAM GENERATOR-A	SUPPORTS		
386	ALAI-3200	CS-1	STEAM GENERATOR-B	SUPPORTS		
387		CS-2	STEAM GENERATOR-B	SUPPORTS		
388		CS-3	STEAM GENERATOR-B	SUPPORTS		
389		CS-4	STEAM GENERATOR-B	SUPPORTS		
390	ALAI-3300	CS-1	STEAM GENERATOR-C	SUPPORTS		
391		CS-2	STEAM GENERATOR-C	SUPPORTS		
392		CS-3	STEAM GENERATOR-C	SUPPORTS		
393		CS-4	STEAM GENERATOR-C	SUPPORTS		
394	ALAI-5100	CS-1	REACTOR COOLANT PUMP-A	SUPPORTS		
395		CS-2	REACTOR COOLANT PUMP-A	SUPPORTS		
396		CS-3	REACTOR COOLANT PUMP-A	SUPPORTS		
397	ALAI-5200	CS-1	REACTOR COOLANT PUMP-B	SUPPORTS		
398		CS-2	REACTOR COOLANT PUMP-B	SUPPORTS		
399		CS-3	REACTOR COOLANT PUMP-B	SUPPORTS		
400	ALAI-5300	CS-1	REACTOR COOLANT PUMP-C	SUPPORTS		
401		CS-2	REACTOR COOLANT PUMP-C	SUPPORTS		
402		CS-3	REACTOR COOLANT PUMP-C	SUPPORTS		

## HANGER DESIGNATIONS:

A anchor, C constant spring can, H hanger, R restraint hydraulic snubber or RM mechanical snubber, V variable spring can elash / and number indicates the number of components or in welded supports the number of welds.

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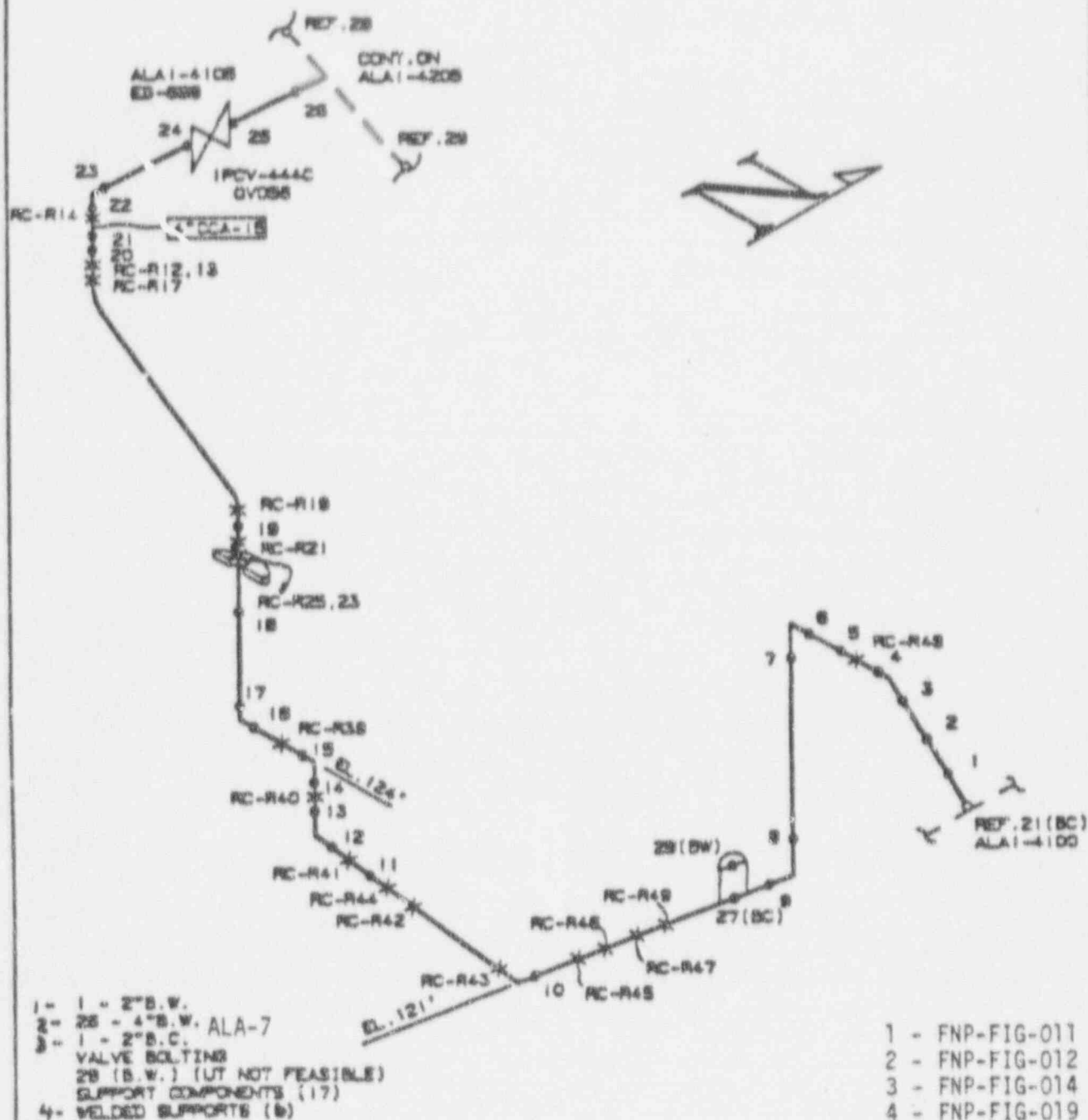
A.MILR.3D21116.02.004.122188

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## LOOP-1 4" SPRAY LINE (C.L.)

ALA1-4105

SCH-160


CAL. BLK. SEE BELOW  
VALVES 01B13EG-698  
D-351114 SH. 1 & 2

A. ARNO. 3D21101.01.002.111387



## Visual Examination Record

VT-1, VT-3

Alabama Power 

Plant/Unit <b>Farley One</b>		Line Number/Examination Area/Weld No. <b>LOOP-1 4" CCA-15 (RC-R17)</b>		Isometric Drawing Number <b>AIAI-4105</b>		Sheet No. <b>1</b>	
PHOTOS <input type="checkbox"/> YES <input type="checkbox"/> B & W <input checked="" type="checkbox"/> NO <input type="checkbox"/> COLOR		SKETCH <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		RESOLUTION <input checked="" type="checkbox"/> 1/32" DIVISION (SCALE) <input type="checkbox"/> 1/32" LINE (GRAY CARD)		TYPE EXAMINATION <input type="checkbox"/> VT 1 <input checked="" type="checkbox"/> VT 3	
TECHNIQUE <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> REMOTE <input type="checkbox"/> VIDEO		EQUIPMENT <input checked="" type="checkbox"/> MIRROR <input type="checkbox"/> MAGNIFIER <input type="checkbox"/> CCTV OTHER _____		LIGHTING <input type="checkbox"/> AMBIENT <input checked="" type="checkbox"/> FLASHLIGHT <input type="checkbox"/> DROPLIGHT		TOOLS <input checked="" type="checkbox"/> SCALE <input type="checkbox"/> DEPTH GAUGE <input type="checkbox"/> LEVEL <input type="checkbox"/> MICROMETER <input type="checkbox"/> COMPARATOR <input type="checkbox"/> CALIPER <input type="checkbox"/> WELD GAUGE	
MWR/WA/SWO <b>91255</b>						Procedure No. <b>NDE VT-003</b>	
Revision No. <b>1</b>						Examiner <b>Ducknight</b>	
Date (Month-Day-Year) <b>3-19-91</b>						Level <b>II</b>	

## ITEM INSPECTED FOR

WELDS & BASE MATERIAL VT-1				COMP'NT INER'LS & MAT'G SURF. VT-3				BOLTS, STUDS, AND WASHERS VT-1			
SAT	UN*	N/A		SAT	UN*	N/A		SAT	UN*	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GROUND BEND MATERIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PITTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LOOSE MEMBERS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNDERCUTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CORROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CRACKS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CORROSION BUILD-UP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CORROSION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GOUGES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FOREIGN MATERIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GOUGES
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GOUGED PARTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	THREAD DAMAGE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ARC STRIKES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WEAR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DEFORMATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER CRACKS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PROTECTIVE COATING
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER CRACKS **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EVIDENCE OF LEAKAGE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER **
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SNUBBERS VT-3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HANGERS & SUPPORTS VT-3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LOOSE BOLTING OR PIN CONNECTIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SETTING <input type="checkbox"/> HOT <input checked="" type="checkbox"/> COLD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SHAFT SEAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MISALIGNMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FLUID LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DAMAGED MEMBERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FLUID TUBING CONDITION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GOUGES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SHAFT CLEANLINESS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ARC STRIKES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SPHERICAL BEARINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GRIND MARKS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COTTER & CLEVIS PINS INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FREEDOM OF MOVEMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER ***	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

\* PROVIDE DETAILS ON UNSAT AREA'S BY USE OF SUPPLEMENTAL DATA SHEET

\*\* PROVIDE DETAILS ON OTHER AREAS EXAMINED

Comments	<b>Spring Can Readings 326 (RC-R17) 4 CANS</b>
	<b>F1000 651-4105</b>

SKETCH ALA F-2000

[illegible]

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## SUPPORTS AND HANGERS CLASS II

SHEET 1 OF 9

ITEM No.	W SK No. (CV SK No.)		SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
1	ALA 2-4100		MS3-R9	C190	B/X	2/R
2			MS3-R8	C175		R
3			MS3-H6	C154	4/X	2/V
4			MS3-R7	C156		R
5			MS3-R5	C149	2/X	2/R
6			MS3-R3	C149		R
7			MS3-R4	C149	2/X	H
8			MS3-R2	C149		R
9			MS3-R1	C149	2/X	H
10	ALA 2-4101		MS-R135	A130	2/X	H
11			MS-R134, R132	A130	2/X	3/R
12			MS-R133	A130		H
13			MS-R89	A133	X	H
14			MS-R90	A133		R
15	ALA 2-4150		FW-R50, H49	A141	X	H
16			FW-R4	C146	2/X	H
17			FW-R45	C146		R
18			FW-R46	C146	2/X	2/R
19			FW-R5	C146		H
20			FW-H9	C149	2/X	H
21			FW-R10, R11	C146	4/X	H
22			FW-H2	C146	X	2/V
23			FW-R3	C146		H
25	ALA 2-4200		FW-H1	C146		V
26			AFW-R97	A143		H
27			MS4-H14	C185	4/X	2/V
29			MS4-R13	C165	B/X	2/R
30			MS4-R11	C163		R
31			MS4-H10	C150	4/X	2/V
32	ALA 2-4201		MS-R130	A130	2/X	H
33			MS-R127, R129	A130	2/X	3/R
34			MS-R128	A130		H
35			MS-R81	A133	X	H

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## SUPPORTS AND HANGERS CLASS II

SHEET 2 OF 9

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
36	ALA 2-4250	FW-R53, R34	A141		H
40		FW-H8	C160	4/X	2/V
41		AFW-R59	A145		H
42		AFW-R98	A145		R
43	ALA 2-4300	MS-R20	C190	X	R
44		MS-R19	C180	2/X	2/R
45		MS5-H18	C157	8/X	2/V
46		MS3-R17	C149		R
47		MS5-H15	C149	X	V
48		MS5-R16	C149	2/X	2/R
49	ALA 2-4301	MS-R125, R124	A130		H
50		MS-R123, R121	A130	2/X	3/R
51		MS-R122	A130		H
52		MS-R73	A133	X	H
53	ALA 2-4350	FW-R19	C143	4/X	H
55		FW-R16	C146		R
56		FW-H17	C146	X	2/V
57		FW-H15	C146		V
58		FW-R12	C149		R
60		FW-H14	C155	4/X	2/V
61	ALA 2-4501	RHR-A2	C107	X	A
62		RHR-R91, R92	C115	2/X	H
63		RHR-R88, R90	C116	X	H/R
64		RHR-R89	C116	X	2/R
65		RHR-R87	C116	X	H
66		RHR-R86	C116		H
67		RHR-R84	C116		R
68		RHR-R83, R85	C116	2/X	H/R
69		RHR-R82	C116	X	H
70		RHR-R80, R81	C115	4/X	2/R

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## SUPPORTS AND HANGERS CLASS II

SHEET 3 OF 9

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LCC BLOC/EL ROOM No.	WELD. ATT.	HNGR DESC.
71	ALA 2-4501	RHR-H79	C113		H
72		RHR5-R41	C112	4/X	H
73		RHR5-R42	A112		R
74		RHR5-R40	A112		H
75		RHR5-R39	A112		R
76		RHR5-R38	A112	B/X	R
77		RHR5-R37	A112		H
78		RHR5-R36	A112	4/X	H
79		RHR5-R35	A111	4/X	H
80		RHR-R93X	A107		H
81	ALA 2-4502	RHR5-R34	A100		H
82		RHR5-R33	A96	X	H
83		RHR6-R71	A90	X	R
84		RHR6-R70	A90	X	R
85		RHR6-R68	A85		R
86		RHR6-R66, 67	A83	3/X	H/R
87		RHR6-R64	A81		H
88		RHR6-R65	A81		R
89		RHR2-R63	A79		H
90		SI-R291	A63	B/X	H
91	ALA 2-4503	SI-R290	A81		2/R
92		SI-R24	A81	4/X	H
93		RHR6-R60	A89	X	H
94		RHR6-R59	A90		H
95		RHR6-R57	A92	4/X	2/V
96		RHR6-R58	A91	X	R
97		RHR6-R56	A96		H
98		RHR6-R55	A86		H
99		RHR-H99X	A88	B/X	2/R
100		RHR1-R3	A94		H
101	ALA 2-4504	RHR1-R32	A94		H
102		RHR1-R2	A94		H
103		RHR1-R1	A94		H
104		RHR-R98X	A91	B/X	2/R
105		RHR1-R4	A94	4/X	H

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## SUPPORTS AND HANGERS CLASS II

SHEET 4 OF 9

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
106	ALA 2-4504	RHR2-R51	A95		H
107		RHR-A11	A95	X	A
108		RHR2-R72	A92	B/X	H
109		RHR2-R73	A92		H
110		RHR2-R74	A108	B/X	H
111		RHR2-R78	A108		H
112		RHR2-R75	A108		H
113		RHR2-R77	A120	B/X	H
114		RHR2-R76	A123	4/X	H
115		RHR-A3	A123	X	A
116		SI-R97	A122		H
117	ALA 2-4505	RHR9-R10	A111	4/X	H
118		RHR9-R9	A111	4/X	H
119		RHR9-R43	A111		H
120		RHR9-R8	A111	3/X	H
121		RHR9-R7	A112		H
122		RHR9-R6	A104	2/X	H
123		RHR9-R5	A102	4/X	H
124		RHR-A4	A94	X	A
125		RHR10-R30	A94	2/X	H
126		RHR10-R31	A94		R
127		RHR10-R29	A94	B/X	R
128		RHR10-R27	A94		H
129		RHR10-R28	A94		H
130		RHR10-R25	A86		R
131	ALA 2-4506	RHR10-R24	A84	4/X	H
132		RHR10-R45, R46	A81	3/X	R
133		RHR10-R47	A79	2/X	H
134		SI-R293	A81	B/X	H
135		SI-R17, R292	A81	4/X	H/R
136		RHR10-R23	A81	2/X	H
137		RHR10-R22	A97	2/X	R
138		RHR-A6	A97	X	A
139		RHR10-R21	A92	4/X	H

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## SUPPORTS AND HANGERS CLASS II

SHEET 5 OF 9

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
140	ALA 2-4506	RHR10-R20	A92		H
141		RHR7-R17	A94	4/X	H
142		RHR7-R18	A94	2/X	H
143		RHR7-R19	A90	4/X	H
144	ALA 2-4507	RHR-A8	A94	X	A
145		RHR7-R11	A96	4/X	H
146		RHR7-R12	A97		H
147		RHR7-R13	A99	4/X	H
148	ALA 2-4508	CVC-R44	A114	2/X	H
149		SI-R29	A104		H
150		SI-R30	A104	B/X	H
151		CVCS-R45	A112	B/X	H
152		CVCS-A19	A114	X	A
153		CVC-R13	A109	6/X	H
154		CVC-R14	A109	2/X	H
155		CVC-R18	A104	6/X	H
156	ALA 2-4509	CVC-R328	A121	B/X	H
157		CVC-R327	A133		H
158		CVC-R326	A133		H
159		CVCS-A1	A133	X	A
160		CVC-R234	A133	B/X	H
161		CVC-R233	A133	B/X	H
162		CVC-R232	A133		H
163	ALA 2-4510	RHR-A10	A85	X	A
164		CVC-R1	A96	2/X	H
165		CVC-R2	A96	2/X	H
166		CVC-R3	A97		H
167		CVC-R223	A106	4/X	H
168		CVC-R224	A105		H
169		CVC-R225	A113	E/X	H
170		CVC-R226	A130		H
171		CVC-R227	A133		H
172		CVC-R228	A133	B/X	H
173		CVC-R229	A133	B/X	H
174		CVC-R230	A133		H

REV. 3

"ILLUSTRATIVE ONLY"

ALAF-2000

## SUPPORTS AND HANGERS CLASS II

SHEET 5 OF 9

ITEM No.	W SK No. (CV SK No.)	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
175	ALA 2-4510	CVC-R231	A133		H
176	ALA 2-4511	CVC-R19	A101	2/X	H
177		CVCS-A20	A101	X	A
178		CVC-R17	A103	2/X	H
179		CVC-R16	A109	4/X	H
180		CVC-R15	A109	6/X	H
181	ALA 2-4512	CVC-R209	A101	4/X	H
182		CVC-R210	A107	4/X	H
183		CVC-R207	A109	2/X	H
184		CVC-R208	A109	4/X	H
185		CVCS-A23	A114	X	A
186		CVC-R211	A109	6/X	H
187	ALA 2-4513	RHR-A7	A85	X	A
188		CVC-R204	A94	B/X	H
189		CVC-R203	A97		H
190		CVC-R205	A102	4/X	H
191		CVC-R197	A113		H
192		CVC-R196	A113		H
193		CVC-R198	A113	4/X	H
194		CVC-R199	A113		H
195		CVC-R200	A113		H
196		CVC-R202	A113		H
197		CVC-R201	A113		H
198		CVC-A22	A113	X	A
199		CVC-R40	A113		H
200		CVC-R41	A112		H
201		CVC-R42	A113		H
202		CVC-R43	A113		H
203	ALA 2-4514	SI-A28	A122		R
204		SI-A2	A133	X	A
205		SI-R85	A133		H
206		SI-R78	A133	B/X	H
207		SI-R302	A133		H
208		SI-H301	A133		H

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ALAF-2000

## SUPPORTS AND HANGERS CLASS II

SHEET 7 OF 9

ITEM No.	W SK No. (CV SK No.)		SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
209	ALA 2-4514		SI-R86	A133		H
210			SI-R88	A124		H
211			SI-R87	A124	B/X	H
212			SI-R82	A122	X	H
213			SI-R81	A122	2/X	H
214			SI-R108	A133		H
215			SI-R84	A133		V
216			SI-R107	A133		R
217			SI-R80	A133	B/X	H
218			SI-R106	A133	X	R
219			SI-A10	A133	X	A
221	ALA 2-4516		SI-R187	C108		R
222			SI-R186	C110	2/X	H
223			SI-R208	C110		R
224			SI-R259	C114		R
225			SI-R207	C114		H
226			SI-R206	C114	B/X	2/R
227			SI-R185	C112		R
228			SI-R183	C110		H
229			SI-R184	C110		R
230			SI-R194	C112		R
231	ALA 2-4517		SI-R192	C118		H
232			SI-R193	C118	B/X	H
233			SI-R209	C122		H
234			RHR7-R14	A99	2/X	H
235			RHR-A9	A97	X	A
236			RHR8-R49	A101		H
237			RHR8-R48	A103	4/X	H
238			RHR8-R50	A110		H
239			RHR8-R51	A110	X	H
240			RHR8-R52	A112		H
241			RHR8-R53	A126	B/X	H
242			RHR8-R54	A126		H
243			SI-R101	A122		H

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ALAF-2000

## SUPPORTS AND HANGERS CLASS II

SHEET 6 OF 9

ITEM No.	W SK No. (CV SK No.)	ISI IDENT.	SUPPORT MARK No.	LOC BLDG/EL ROOM No.	WELD. ATT.	HNGR DESC.
244	ALA 2-4517		SI-R205	C122	B/X	H
245			SI-R204	C119		H
246			SI-R203	C117		R
247			SI-R188	C110		H
248			SI-R100	A128		R
250	ALA 2-4518		SI-R99	A123	B/X	H
251			SI-R23	A78		H
252			SI-R22	A90		H
253			SI-R21	A93		H
254			SI-A1	A93	X	A
255			SI-H11, R12	A93	X	H
256			SI-A16	A93		A
257			SI-R16	A90	B/X	H
258			SI-R15	A85		
259	ALA 2-1100	CS-1(W)		A121/RM217	X	
260	V.C.TANK	CS-2(W)		A121/RM217	X	
261		CS-3(W)		A121/RM217	X	
262		CS-4(W)		A121/RM217	X	
263	ALA 2-1110	CS-1 (W)	CVC -R453	C118	X	R
264	L.D.TANK	CS-2 (W)	CVC -R453	C118	X	R
265		CS-3 (W)	CVC -R452	C118	X	V
266		CS-4 (W)	CVC -R452	C118	X	V
267		CS-5 (W)	CVC -R451	C118	X	R
268		CS-6 (W)	CVC -R451	C118	X	R
269		CS-7 (W)	CVC -R450	C118	X	V
270		CS-8 (W)	CVC -R450	C118	X	V
271		CS-11	CVC -R447	C109		R
272		CS-10	CVCS-R668	C110		
273		CS-9	CVC -R446	C109		H
274		CS-12	CVCS-R667	C120		H
275	ALA 2-1120	CS-1(W)	CVCS-H662	C113	4/X	H
276	E.L.D.TANK	CS-2(W)	CVCS-H662	C113	4/X	H
277		CS-3(W)	CVCS-H665	C113	4/X	H
278		CS-4(W)	CVCS-H665	C113	4/X	H
315		CS-5	CVCS-R663	C120		H
316		CS-6	CVCS-R666	C120		H
317		CS-7	CVCS-R664	C108		H
318		CS-8	CVCS-R661	C108		H

REV. 3



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ALAF-2000

## SUPPORTS AND HANGERS CLASS II

SHEET 9 OF 9

ITEM No.	W SK No. (CV SK No.)	ISI IDENT.	SUPPORT MARK No.	LOC BLDG/EI ROOM No.	WELD. ATT.	HNGR DESC.
279	ALA2-1130	CS-1(W)		DIT TANK	X	
280		CS-2(W)			X	
281		CS-3(W)			X	
282		CS-4(W)			X	
283	ALA2-2100	CS-1(W)	SEALWATER RETURN FILTER		X	
284		CS-2(W)			X	
285		CS-3(W)			X	
286	ALA2-2110	CS-1(W)	REACTOR COOLANT FILTER		X	
287		CS-2(W)			X	
288		CS-3(W)			X	
289	ALA2-3540	CS-1(W)	LETDOWN REHEAT H/X		X	
290		CS-2(W)			X	
291	ALA2-3560	CS-1	REGENERATIVE H/X			
292		CS-2				
293		CS-3				
294		CS-4				
295		CS-5				
296		CS-6				
297	ALA2-5100	CS-1(W)	CHARGING PUMP A		X	
298		CS-2(W)			X	
299		CS-3(W)			X	
300		CS-4(W)			X	
301	ALA2-5110	CS-1(W)	CHARGING PUMP B		X	
302		CS-2(W)			X	
303		CS-3(W)			X	
304		CS-4(W)			X	
305	ALA2-5120	CS-1(W)	CHARGING PUMP C		X	
306		CS-2(W)			X	
307		CS-3(W)			X	
308		CS-4(W)			X	
309	ALA2-5130	CS-1	RHR PUMP A			
310		CS-2				
311		CS-3				
312	ALA2-5140	CS-1	RHR PUMP B			
313		CS-2				
314		CS-3				

## HANGER DESIGNATIONS:

A anchor, C constant spring can, H hanger, R restraint hydraulic snubber or RM mechanical snubber, V variable spring can slash / and number indicates the number of components or in welded supports the number of welds.

REV. 3

"ILLUSTRATIVE ONLY"  
LETDOWN DELAY TANKS

ALA2-1110

CAL. BLK. ALA-10

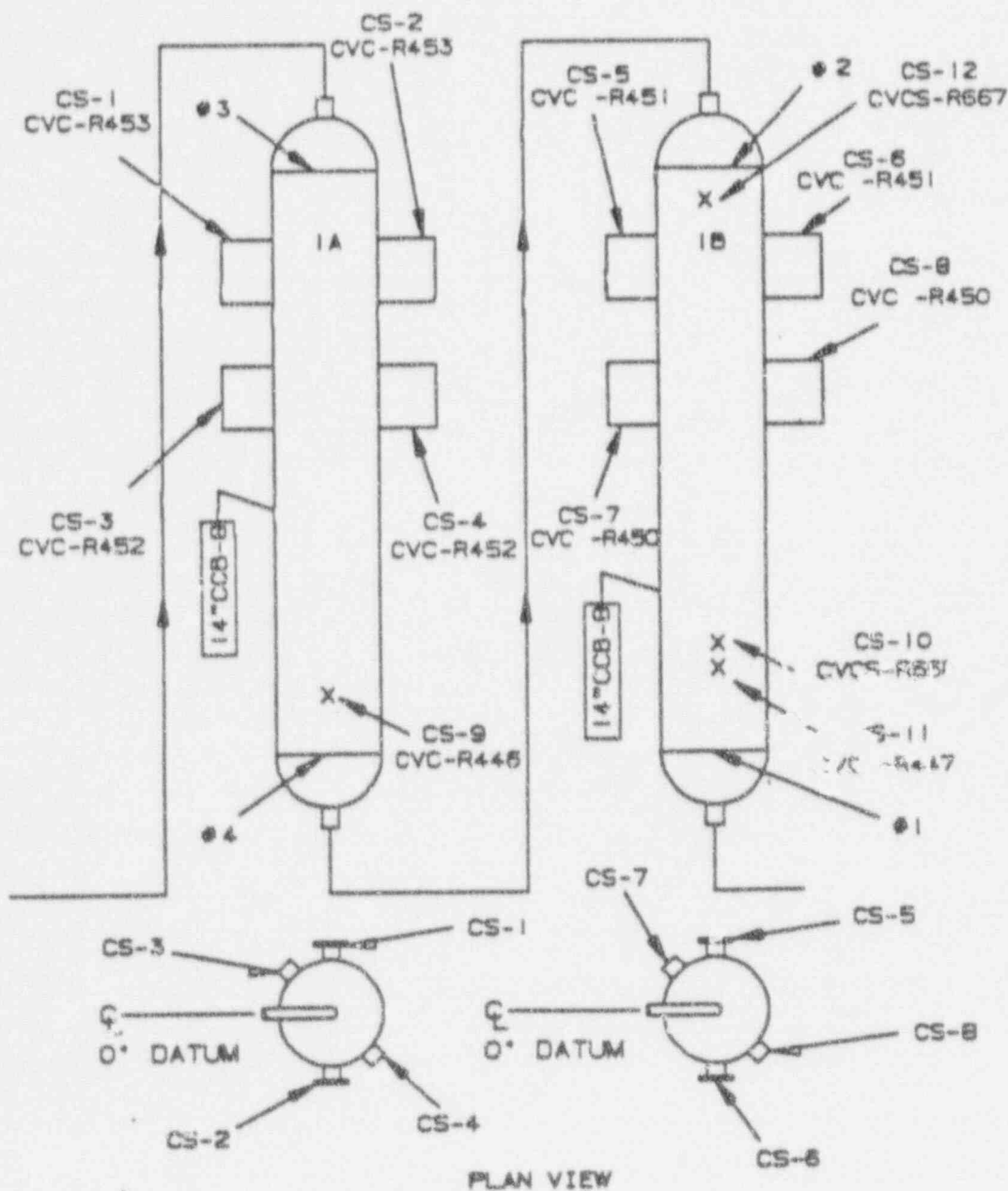
EG-639

FNP-FIG-023

CONTAINMENT  
106 EL

MATERIAL: 1.25" T 14" SCH 140  
WELDS: 14" DIA, 43.96" CIRC (4)

INTEGRALLY WELDED SUPPORTS: 8 WELDED 6" SCH 160 PIPE THICKNESS .719"  
SUPPORT COMPONENTS: 12



REV. 2

"ILLUSTRATIVE ONLY"

ALA2-1120

## EXCESS LETDOWN DLY TANKS

CAL. BLK. ALA-1B

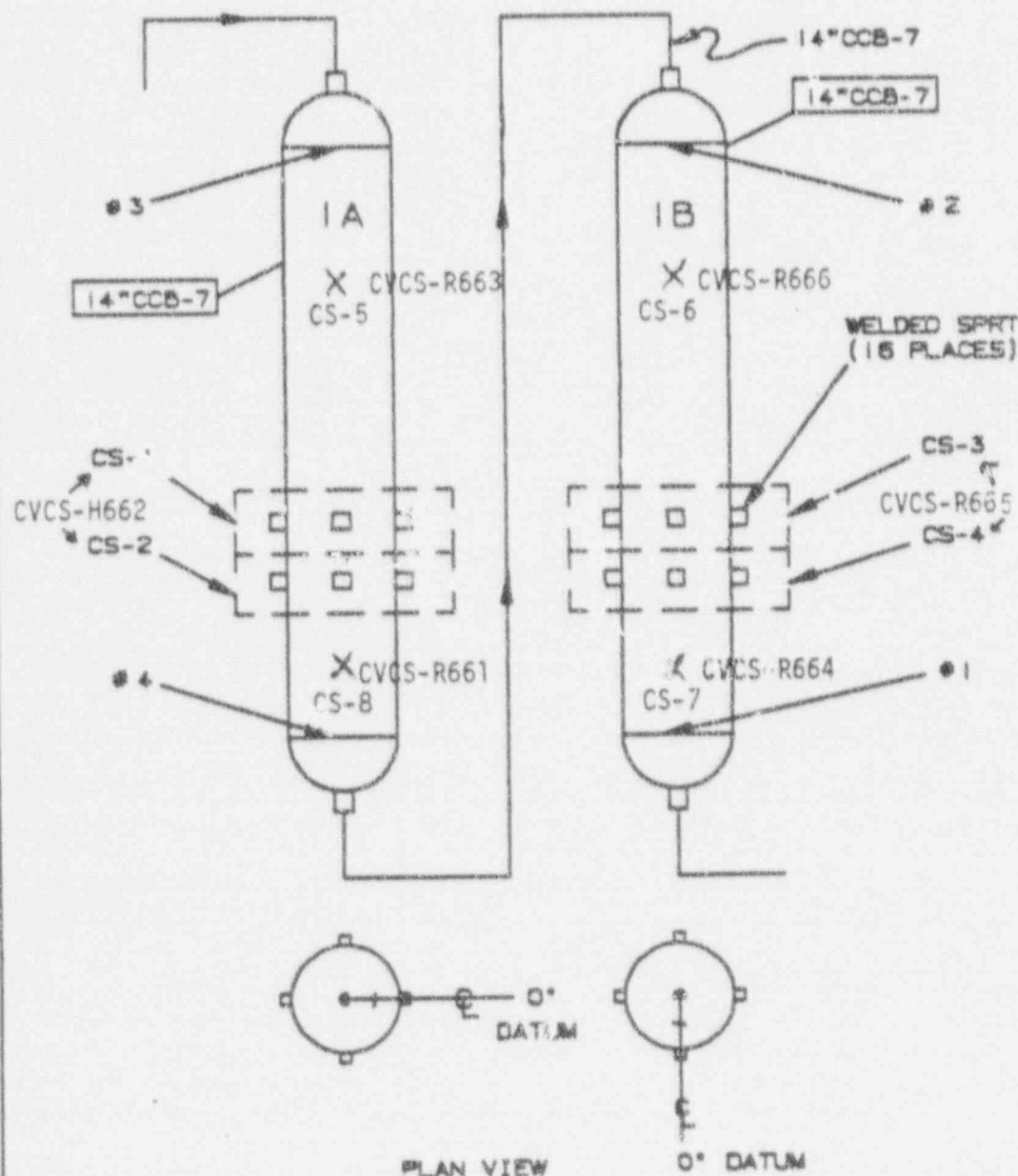
E-1433

MATERIAL: 1.25" T 14" SCH 140  
 WELDS: 14" DIA, 43.96" CIRC (4)

FNP-FIG-023

CONTAINMENT  
 106 EL

INTEGRALLY WELDED SUPPORTS: (4) WELDED LUGS 1 1/2" X 1 3/4" X 1 3/4"  
 8 SUPPORT COMPONENTS



REV. 3

## Visual Examination Record

VT-1, VT-3

Alabama Power

Plant/Unit <b>FARLEY ONE</b>	Line Number/Examination Area/Weld No. <b>LET DOWN DELAY TANKS</b>	Isometric Drawing Number <b>1-A CVC-R44G</b>	Sheet No. <b>1</b>
PHOTOS <input type="checkbox"/> YES <input type="checkbox"/> B&W <input type="checkbox"/> NO <input type="checkbox"/> COLOR	SKETCH <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Resolution <input checked="" type="checkbox"/> 1/32" DIVISION (SCALE) <input type="checkbox"/> 1/16" LINE (GRAY CARD)	MPH (MPS) SWO <b>91255</b>
TECHNIQUE <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> REMOTE <input type="checkbox"/> VIDEO	EQUIPMENT <input checked="" type="checkbox"/> MIRROR <input type="checkbox"/> MAGNIFIER <input type="checkbox"/> CCTV <input type="checkbox"/> OTHER	LIGHTING <input type="checkbox"/> AMBIENT <input checked="" type="checkbox"/> FLASHLIGHT <input type="checkbox"/> DROP LIGHT	Procedure No. <b>NDE-VT-003</b>
	TOOLS <input checked="" type="checkbox"/> SCALE <input type="checkbox"/> DEPTH GAUGE <input type="checkbox"/> LEVEL <input type="checkbox"/> MICROMETER <input type="checkbox"/> COMPARATOR <input type="checkbox"/> <input type="checkbox"/> CALIPER <input type="checkbox"/> WELD GAUGE	TYPE EXAMINATION <input type="checkbox"/> VT-1 <input checked="" type="checkbox"/> VT-3	Revision No. <b>1</b>
			Examiner <b>Blacklight</b>
			Date (Month-Day-Year) <b>3-19-99</b>
			Level <b>II</b>

## ITEM INSPECTED FOR

WELDS & BASE MATERIAL VT-1		COMP'NT INERTLS & MAT'G SURF VT-3		BOLTS, STUDS, AND WASHERS VT-1		N/A	
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## Alabama Power

Form 5760 Rev 11/85





Plating/and	Line Number/Examination Area/Weld No.	Isometric Drawing Number	Sheet No
FARLEY ONE	EXCESS LETDOWN DRY TANKS	1-A EVCS-R663	1
PHOTOS	SKETCH	RESOLUTION	TYPE EXAMINATION
<input type="checkbox"/> YES <input type="checkbox"/> B & W <input type="checkbox"/> NO <input type="checkbox"/> COLOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> 1/32" DIVISION (SCALE) <input type="checkbox"/> 1/32" LINE (GRAY CARD)	<input type="checkbox"/> VT 1 <input checked="" type="checkbox"/> VT 3
TECHNIQUE	EQUIPMENT	LIGHTING	TOOLS
<input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> REMOTE <input type="checkbox"/> VIDEO	<input checked="" type="checkbox"/> MIRROR <input type="checkbox"/> MAGNIFIER <input type="checkbox"/> CCTV <input type="checkbox"/> OTHER	<input type="checkbox"/> AMBIENT <input checked="" type="checkbox"/> FLASHLIGHT <input type="checkbox"/> DROPLIGHT	<input type="checkbox"/> SCALE <input checked="" type="checkbox"/> DEPTH GAUGE <input type="checkbox"/> COMPARATOR <input type="checkbox"/> WELD GAUGE
			LEVEL
			Level
			II
			3-19-61

ITEM INSPECTED FOR			
VT-1	SAT	UN <sup>+</sup> SAT	N/A
<input type="checkbox"/> WELDS & BASE MATERIAL			
GROUND BEND MATERIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNDERCUTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CORROSION BUILD-UP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GOUGES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ARC STRIKES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER CRACKS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>N A</i>			
<input type="checkbox"/> SNUBBERS			
LOOSE BOLTING OR PIN CONNECTIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SHAFT SEAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLUID LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLUID TUBING CONDITION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SHAFT CLEANLINESS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SPHERICAL BEARINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COTTER & CLEVIS PINS INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>N A</i>			
<input type="checkbox"/> COMP'NT INER'LS & MAT'G SURF			
PITTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CORROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FOREIGN MATERIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GOUGED PARTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WEAR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER CRACKS **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>N A</i>			
<input type="checkbox"/> HANGERS & SUPPORTS			
SETTING <input type="checkbox"/> HOT <input type="checkbox"/> COLD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MISALIGNMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DAMAGED MEMBERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GOUGES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ARC STRIKES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GRIND MARKS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FREEDOM OF MOVEMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER **	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>N A</i>			
<input type="checkbox"/> BOLTS, STUDS, AND WACHERS			
LOOSE MEMBERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CRACKS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CORROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GOUGES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
THREAD DAMAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DEFORMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROTECTIVE COATING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>N A</i>			

\* PROVIDE DETAILS ON UNSAT AREA'S BY USE OF SUPPLEMENTAL DATA SHEET


\*\* PROVIDE DETAILS ON OTHER AREAS EXAMINED

UN<sup>+</sup> SAT

Comments
F2000 315 2-1120

## Visual Examination Record

VT-1, VT-3

Alabama Power 

Plant/Unit <b>FARLEY ONE</b>	Line Number/Examination Area/Weld No. <b>EXCESS LETDOWN DLY. TANKS</b>	Isometric Drawing Number <b>1-A CYCS-R661</b>	Sheet No. <b>1</b>
PHOTOS <input type="checkbox"/> YES <input type="checkbox"/> B&W <input checked="" type="checkbox"/> NO <input type="checkbox"/> COLOR	SKETCH <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	RESOLUTION <input checked="" type="checkbox"/> 1/32" DIVISION (SCALE) <input type="checkbox"/> 1/32" LINE (GRAY CARD)	TYPE EXAMINATION <input type="checkbox"/> VT 1 <input checked="" type="checkbox"/> VT 3
TECHNIQUE <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> REMOTE <input type="checkbox"/> VIDEO	EQUIPMENT <input checked="" type="checkbox"/> MIRROR <input type="checkbox"/> MAGNIFIER <input type="checkbox"/> CCTV OTHER _____	LIGHTING <input type="checkbox"/> AMBIENT <input checked="" type="checkbox"/> FLASHLIGHT <input type="checkbox"/> DROPLIGHT	TOOLS <input checked="" type="checkbox"/> SCALE <input type="checkbox"/> DEPTH GAUGE <input type="checkbox"/> LEVEL <input type="checkbox"/> MICROMETER <input type="checkbox"/> COMPARATOR <input type="checkbox"/> CALIPER <input type="checkbox"/> WELD GAUGE
MWR RWA/ SWO <b>91255</b> Procedure No <b>NDE-VT-003</b> Revision No <b>1</b> Examiner _____ Level _____ Examiner <b>DM Knight</b> Level <b>II</b> Date (Month-Day-Year) <b>3-19-91</b>			

## ITEM INSPECTED FOR

WELDS & BASE MATERIAL VT-1				COMP'NT INER'LS & MAT'G SURF. VT-3				BOLTS, STUDS, AND WASHERS Vi-1			
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A		SAT	UN-SAT	N/A
GRO'ND BE'ND MATERIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PITTING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LOOSE MEMBERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNDERCUTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CORROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CRACKS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CORROSION BUILD-UP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CORROSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GOUGES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FOREIGN MATERIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GOUGES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GOUGED PARTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	THREAD DAMAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ARC STRIKES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WEAR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DEFORMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER CRACKS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PROTECTIVE COATING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER CRACKS **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EVIDENCE OF LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SNUBBERS VT-3				HANGERS & SUPPORTS VT-3							
	SAT	UN-SAT	N/A		SAT	UN-SAT	N/A		SAT	UN-SAT	N/A
LOOSE BOLTING OR PIN CONNECTIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SETTING <input type="checkbox"/> HOT <input type="checkbox"/> COLD	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SHAFT SEAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MISALIGNMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLUID LEAKAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DAMAGED MEMBERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLUID TUBING CONDITION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GOUGES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SHAFT CLEANLINESS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ARC STRIKES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SPHERICAL BEARINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GRIND MARKS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COTTER & CLEVIS PINS INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FREEDOM OF MOVEMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER **	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER **	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* PROVIDE DETAILS ON UNSAT AREA'S BY USE OF SUPPLEMENTAL DATA SHEET

\*\* PROVIDE DETAILS ON OTHER AREAS EXAMINED

Comments

F2000 318 2-1120

ALMA: CSH 3/20/91

ALABAMA POWER COMPANY  
J. M. FARLEY NUCLEAR PLANT UNIT 1  
INTERVAL 2 PERIOD 1 OUTAGE 3

TAB E-ADDITIONAL EXAMINATIONS

1. Class 1 System Leakage Test

In accordance with ASME Section XI 1983 Edition IWB-5120(a), leak testing of the Class 1 Reactor Coolant System Pressure Boundary was performed prior to startup following the seventh refueling outage. The testing was completed by plant personnel on 5/17/91 using procedure FNP-1-SOP-1.4, Reactor Coolant System Leak Test, OTC 910516-1 and procedure FNP-1-STP-9.0, RCS Leakage Test, OTC 910513-3. Copies of the completed test procedures are retained by the Farley Nuclear Plant Document Control.

2. Class 1 & 2 Hydrostatic Testing

A hydrostatic test of a Class 2 system was performed during the third outage of the first forty-month period of the second interval in accordance with the requirements of ASME Code Section XI, Articles IWA-5000 and IWC-5000.

The table below is a listing of the test procedure used and discrepancies found during testing. The completed test procedure is retained in the Farley Nuclear Plant Document Control for the life of the plant.

FARLEY NUCLEAR PLANT UNIT 1

HYDROSTATIC TESTS - TENTH REFUELING OUTAGE

<u>PROCEDURE</u>	<u>DESCRIPTION OF LEAKS</u>
1. FNP-1-STP-160.9 WA 91273 VCT and connecting lines, Charging Pumps Suction header Inservice Hydrotest	None
3. <u>Steam Generator Feedwater Nozzle-to-Reducer Weld Examinations</u>	
The feedwater nozzle-to-reducer welds on Steam Generators A/B/C were examined during the seventh refueling outage by 100% ultrasonic testing on March 13, 1991 using WA 91257, procedure FNP-0-NDE-480, OTC 901128-1. All examinations were acceptable. A copy of the completed test procedure is retained by the FNP Document Control.	

#### 4. Miscellaneous Examinations

- a. Examination of Steam Generator Support Bolting in response to INPO SOER 84-05. UT examinations were performed of Steam Generator Support bolting per FNP-0-NDE-888, OTC 901127-1 WA 93245 on Steam Generator A--Pads 3,4; Steam Generator B--Pads 1, 3; and Steam Generator C--Pads 2,3,4. No indications were noted. A copy of the completed test procedure is retained by the FNP Document Control.

#### 5. Verification of Spring Hanger Settings

Verification of constant spring supports and hangers as required by ASME Section XI is summarized on the attached Table 1 for the Unit 1 Tenth Refueling Outage. The one spring hanger observed was within the acceptance criteria.

TABLE 1  
FARLEY NUCLEAR PLANT UNIT 1  
SPRING HANGER SETTING VERIFICATION SHEET  
2ND TEN YEAR INTERVAL - 1ST 40 MONTH PERIOD - 3RD OUTAGE


ALA SKETCH	FNP MARK NO.	GRINELL FIG/SIZE	ACCEPTANCE CRITERIA ±LB	DESIGN COLD LOAD/LB	AS FOUND COLD LOAD/LB	LOAD SAT/ C*	WORKING RANGE **SAT/ UNSAT	MWR	AS LEFT LOI LBS/C*
1-4105	RC-R17	98/6	±1/4 = ±11	324E	326E	SAT	294/504 SAT	N/A	326E
		98/6	±1/4 = ±11	324E	326E	SAT	294/504 SAT	N/A	326E
		98/6	±1/4 = ±11	324E	326E	SAT	294/504 SAT	N/A	326E
		98/6	±1/4 = ±11	324E	326E	SAT	294/504 SAT	N/A	326E

**NDE INDICATION  
EVALUATION  
REPORTS**



## NDE INDICATION EVALUATION REPORT

Farley Nuclear Plant

Alabama Power 

Unit No.	1
IER No.	001
Date	3/22/91

2<sup>nd</sup>

10 Year Interval

1<sup>st</sup>

40 Month Period

3<sup>rd</sup>

Outage

## Part I -- FINDINGS

Sketch Ref. <b>ALA-3500 #3</b>	NDE Method: <input type="checkbox"/> UT <input checked="" type="checkbox"/> PT <input type="checkbox"/> MT <input type="checkbox"/> VT <input type="checkbox"/> Other _____	Procedure/Rev. <b>NDE-PT-001 Rev. 7</b>
Component Inspected: <b>RHR Heat Exchanger 'A'</b>		
Description of Indication:		

Seven (7) linear indications as follows:

1 at 50" - 1/8" long

3 at 4" - 1/16" long (base material)

1 at 22" - 1/16" long

1 at 4" - 3/16" long

1 at 9" - 1/8" long

## Part II -- CONTRACTOR ASSESSMENT

- ☐ Not Acceptable  
☐ Acceptable  
☐ Not Service Induced  
☐ Under Investigation  
☐ Prior Existing

- ☐ Acceptance Limits Not Specific  
☐ Outside Examination Zone  
☐ For Information Only  
☐ More Preparation Required  
☐ Other

- Recommendations:  
☐ Correct  
☐ Further Investigation  
☐ Future Monitoring  
☐ Supplementary Examination

Contractor Representative

N/A

Date

N/A

Acknowledged By

R. Badham

Date

3/22/91

## Part III -- APCO NDE INSPECTOR ASSESSMENT

- ☐ Repair and Reexamine  
☒ Indication Acceptable  
☐ Monitoring Recommended  
☐ Prior Existing  
☐ Supplementary Examination  
☐ Design Evaluation

☐ Other \_\_\_\_\_

Code References:

2.31, IWB-3000 (REFERENCE IWB-3000) ASME  
 SECTION XI, 1983 EDITION THRU 5'83 ADDENDA.

Basis:

ASME

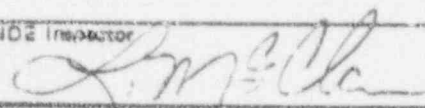
BASED ON THE ACCEPTABLE STANDARD OF TABLE IWB-354-2  
 THIS IS AN ACCEPTABLE CONDITION.

ALL INDICATIONS ARE LESS THAN .2"

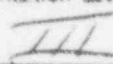
Review of Previous Examinations:

NO PREVIOUS EXAMINATIONS

NDE Inspector



Certification Level



Date

3/23/91

Unit No.	1
IER No.	001
Date	3/22/91

# Part IV - APCO EVALUATION

Cause of Indication: *Unable to ascertain; however the indications were probably produced during the marking process.*

Action Required To Correct Indication: *None required - indications are acceptable based on size.*

License Event Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		10CFR21 Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Prepared By <i>RW Badt</i>	Date <i>3/23/91</i>	System Performance Supervisor <i>SG Casey</i>	Date <i>3-23-91</i>
		Work Request No. <i>N/A</i>	


# Part V - DISPOSITION

Corrective Action Taken: *None required*

Corrective Action Initiated To Prevent Recurrence: *None required*

Prepared By <i>RW Badt</i>	Date <i>3/23/91</i>	Approved (System Performance Supervisor) <i>SG Casey</i>	Date <i>3-23-91</i>
-------------------------------	------------------------	---	------------------------

# Surface Examination Record Farley Nuclear Plant

Alabama Power 

NDE Program Nuclear Generation Department  
NDE Form - 002

<input checked="" type="checkbox"/> Unit 1 <input type="checkbox"/> Unit 2 <input type="checkbox"/> Shared	TPNS Number <u>QIEIHO01A</u>	System/Component <u>RHR</u>	Location <u>Rm. 128</u>	MWR WA <u>91255</u> SWO
--	---------------------------------	--------------------------------	----------------------------	-------------------------------

Procedure/Revision <u>NDE-PT-001 REV. 7</u>	Traveler No./Drawing No. <u>AIA 2-3500</u>
--	---

Acceptance Standard  
ASME SECTION XI App. B-5

Description  
SUPPORT PLATE TO VESSEL HEAD, SUPPORT PLATE TO NOZZLE (OUT)  
WEID #3 AIA 2-3500

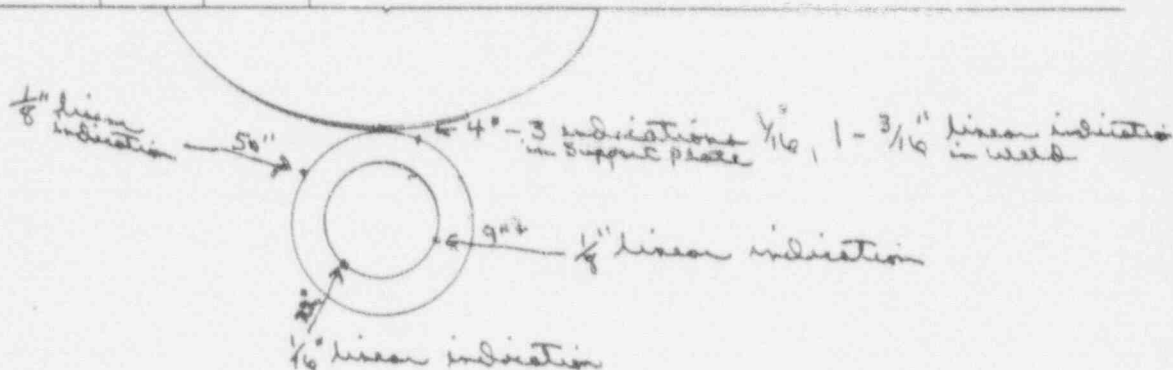
Material Type: ☐ C/S ☒ S/S ☐ Other \_\_\_\_\_

Thermometer: FNP I.D. DT-3 Cal. Due Date 6-3-91

PT Materials		RTYPE: L1.07		MT Equipment		RTYPE: L1.03	
Method: <input checked="" type="checkbox"/> Color Contrast <input type="checkbox"/> Fluorescent				MT Yoke Type _____			
Cleaner <u>SKC-NF</u> Type <u>90H08K</u> Batch No. <u>90H03K</u>				S/N _____ Pole Spacing _____			
Penetrant <u>SKL-HF/S</u> Type <u>90H03K</u> Batch No. <u>90L01P</u>				MT Material _____			
Developer <u>SKD-NF</u> Type <u>90L01P</u>				MT Powder Color _____			
				Batch No. _____			

Item No.	Surface Temp.	Results			Remarks (Description, Exam Limitations, etc.)
		NI	NRI	RI	
W-3	73°F			✓	SEVERAL LINEAR INDICATIONS

Sketch




Corrective Action (Attach additional sheets if necessary)

Examiner <u>Shucklight</u>	Level <u>II</u>	Date <u>3-22-91</u>	Time <u>4:00 P.M.</u>
-------------------------------	--------------------	------------------------	--------------------------

**PERSONNEL  
CERTIFICATIONS**

**Certification of Nondestructive Examination Personnel**  
**Nuclear Generation Department**  
NDE-001A

Alabama Power 

NDE Method Liquid Penetrant	Level of Certification II
Name David McKnight	Date of Employment 12/12/83
Education and Experience Graduate of Newton High School, Newton, Alabama.	
Employed by Daniel/Davcon 1977 to 1983 in NDE. Initial Certification 3/28/77.	
Recertified Level II 12/18/79 and 1/5/82.	
Four (4) hours work experience 1/12/84 by AFCo/SCS.	
Employed APCo/Systems Performance 1983 to present.	
Recertified in PT 1/8/87.	

Date of Eye Examination  
5/30/89

**FORMAL TRAINING**

Name of Course Review for Liquid Penetrant Recertification	Hours 8	Date Completed 2/16/90
---	------------	---------------------------

**EXAMINATIONS**

General Grade	98	X percentile weight	0.3	=	29.4	
Specific Grade	93	X percentile weight	0.3	=	28.5	
Practical Grade	92	X percentile weight	0.4	=	36.8	
					Composite Grade	94.7

I have reviewed the education, training and experience information provided above and certify, to the best of my knowledge, that this information is true and correct.


Reviewed By David McKnight 3-5-90  
Employee Date

Qualified By Kenneth S. Jones SCS Level III 3-26-90  
NDE Level III Date

Certified By Robert D. Beneshall 4-2-90  
Manager — Performance and Planning or  
Vice President — Nuclear Generation (For Level III) Date



Certification of Nondestructive Examination Personnel  
Nuclear Generation Department  
NDE - 001A

Alabama Power 

NDE Method VT-1, VT-2, VT-3	Level of Certification II
Name David McKnight	Date of Employment 12-12-83

Education and Experience

Graduate of Newton High School, Newton, Alabama. Various training courses since 12-12-83. Visual Training 40-hrs.-EPRI Training Center. Visual Training 40 hrs.-Plant Hatch for Levels I & II. Ultrasonic Training(Krautkramer Branson)-40 hrs

Retraining and certification in Magnetic Particle and Liquid Penetrant.

Retraining and certification in Visual Inspection.

Date of Eye Examination

4/30/90

FORMAL TRAINING

Name of Course

VT Level II (ASME Sec XI)

Hours

40

Date Completed

8/30/90

EXAMINATIONS

General Grade 92 X percentile weight .3 = 27.6

Specific Grade 93.3 X percentile weight .3 = 27.99

Practical Grade 80 X percentile weight .4 = 32.0

Composite Grade 87.59

I have reviewed the education, training and experience information provided above and certify, to the best of my knowledge, that this information is true and correct.

Reviewed By

Employee

*David McKnight*

10-1-90

Date

Qualified By

NDE Level III

*Kenneth L. Jones*

SCS Level III

10-3-90

Date

Certified By

Manager - Performance and Planning or  
Vice President - Nuclear Generation (For Level III)


*Robert D. Bumpall*

10-5-90

Date

## VISION TEST

NDE Program — Nuclear Generation Department

Alabama Power 

NHL Form - 003

Last Name		First Name		Middle Name		Age
McKnight		Ellis		David		46
Address		City		State		Zip
Rt 7		Dothan		Alabama		36301

An eye examination shall be given to assure natural or corrected near distance acuity in at least one eye such that the individual is capable of reading a minimum of Jaeger Number 1 letters at a distance of not less than 12 inches (30.5 cm) on a standard Jaeger test chart or by equivalent examination. Also an examination for far distance acuity, such as a Snellen test at 20 feet or equivalent shall be given.

Individuals shall also be capable of distinguishing and differentiating contrast between colors when required by the particular NDE method (i.e. Liquid Penetrant).

## Distance Vision:

Uncorrected: Right Eye 20/17 or J-1  
Left Eye 20/18 or J-1  
Corrected: Right Eye \_\_\_\_\_  
Left Eye \_\_\_\_\_

## Near Vision:

Uncorrected: Right Eye J-1  
Left Eye J-1  
Corrected: Right Eye \_\_\_\_\_  
Left Eye \_\_\_\_\_

## Color Vision

Normal using Titmus Color tester & Ishihara's Test

## Remarks

Distant vision - using Titmus Vision Tester  
Near - Vision using " " " and  
Jaeger's test Chart

I certify that Ellis David McKnight has successfully passed the vision and color vision examinations.

Examiner Signature

Linda B. Sanders, N.

Date

4-30-90

Employee Signature

David McKnight

Date

4-30-90

**MATERIAL  
CERTIFICATIONS**

Date: AUGUST 20, 1990

Purchase Order No. \_\_\_\_\_

SUBJECT: Spotcheck Penetrant Type: SKL-HF/S Batch No. 90H03K

We hereby certify that when tested at the time of manufacture, the above material:

1. Meets the requirements of and has been tested for sulfur and halogens according to:
  - (a) ASME Boiler and Pressure Vessel Code, 1985 Edition, Section V, Nondestructive Examination, including all Addenda through Winter 1983 Addendum, Paragraph T-625 and Article 34 as applicable.
  - (b) ASME Boiler and Pressure Vessel Code, 1975 Edition, Section V, Nondestructive Examination, Paragraph T-625 and Article 34 as applicable.
  - (c) ASME Boiler and Pressure Vessel Code, 1983 Edition, Section V, Nondestructive Examination, Paragraph T-625 and Article 34 as applicable.
  - (d) ASTM E-165-80, Paragraph 7.1.
  - (e) NAVSEA 280-1500-1 (Rev. 10 June 1979, Rev. 10 May 1983, Rev. 12 December 1987) Paragraphs 12.5.1.1 and 12.5.1.1.1.
  - (f) MIL-STD-271F(SH), 27 June 1982, Paragraphs 8.3 and 8.3.1.
  - (g) MIL-STD-124(SH), 15 March 1983, Paragraphs 7.1.1, 7.1.2, and 7.1.3 and Appendix C Paragraph 30.

The following test results were obtained:

Sulfur: 0.0151 wt. % of residue. Halogen: 0.0218 wt. % of residue  
Glosser residue (see Note 3) NA g/100g. NA g/100 ml.

2. We further certify that this material does not contain mercury as a basic element, and no mercury bearing equipment was used in its manufacture.

MAGNAFLUX®

M. Plamondon  
M. Plamondon - Manager, Quality Assurance

- NOTES:
1. Our batch number appears on the bottom of all aerosol cans and on the label of all bulk containers.
  2. Most specifications require test results stated in percent but some require parts per million (ppm). To convert "percent" figures to "parts per million" move the decimal four places to the right.
  3. NAVSEA 280-1500-1, MIL-STD-271, MIL-STD-2155, and ASME Section V all require that materials be subject to a procedure to evaporate off volatile solvents before analysis for sulfur and halogen. According to these specifications, only those residues higher than 0.005 g/100 ml shall be analyzed for sulfur and halogen. Lower residues shall be reported.
  4. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

Form No. 1589 R-1/80

# MAGNAFLUX®

Date: November 16, 1990

Purchase Order No. \_\_\_\_\_

SUBJECT: Spotcheck Developer Type: SKD-NF Batch No. 90L01P

We hereby certify that when tested at the time of manufacture, the above material:

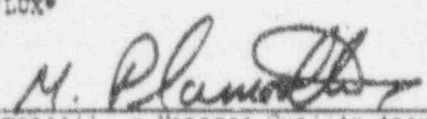
1. Meets the requirements of and has been tested for sulfur and halogens according to:
  - (a) ASME Boiler and Pressure Vessel Code, 1983 Edition, Section V, Nondestructive Examination, including all Addenda through Winter 1983 Addendum, Paragraph T-625 and Article 24 as applicable.
  - (b) ASME Boiler and Pressure Vessel Code, 1988 Edition, Section V, Nondestructive Examination, Paragraph T-625 and Article 24 as applicable.
  - (c) ASME Boiler and Pressure Vessel Code, 1988 Edition, Section V, Nondestructive Examination, Paragraph T-625 and Article 24 as applicable.
  - (d) ASTM E-165-80, Paragraph 7.1.
  - (e) NAVSEA 250-1500-1 (Rev. 10 June 1979, Rev. 11 May 1983, Rev. 12 December 1987) Paragraphs 12.3.1.1 and 12.3.1.1.1.
  - (f) MIL-STD-271F(SH), 27 June 1985, Paragraphs 3.3 and 3.3.1.
  - (g) MIL-STD-2132A(SH), 15 March 1985, Paragraphs 7.1.1, 7.1.2, and 7.1.3 and Appendix C, Paragraph 30.

The following test results were obtained:

Sulfur: 0.0151 wt. % of residue. Halogens: 0.0371 wt. % of residue  
Cleaner residue (see Note 3) NA g/100g. NA g/100 ml.

2. We further certify that this material does not contain mercury as a basic element, and no mercury bearing equipment was used in its manufacture.

MAGNAFLUX®

  
M. Plamondon - Manager, Quality Assurance

- NOTES:
1. Our batch number appears on the bottom of all aerosol cans and on the label of all bulk containers.
  2. Most specifications require test results stated in percent but some require parts per million (ppm). To convert "percent" figures to "parts per million" move the decimal four places to the right.
  3. NAVSEA 250-1500-1, MIL-STD-271, MIL-STD-2132, and ASME Section V all require that materials be subject to a procedure to evaporate off volatile solvents before analysis for sulfur and halogen. According to these specifications, only those residues higher than 0.005 g/100 ml shall be analyzed for sulfur and halogen. Lower residues shall be reported.
  4. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

Form No. 1568 R-1/90



Purchase Order No. QP5271

SUBJECT: Spotcheck Cleaner/Remover Type: SKC-NF Batch No. 90H08K

We hereby certify that when tested at the time of manufacture, the above material:

1. Meets the requirements of and has been tested for sulfur and halogens according to:
  - (a) ASME Boiler and Pressure Vessel Code, 1983 Edition, Section V, Nondestructive Examination, including all Addenda through Winter 1983 Addendum, Paragraph T-625 and Article 24 as applicable.
  - (b) ASME Boiler and Pressure Vessel Code, 1985 Edition, Section V, Nondestructive Examination, Paragraph T-625 and Article 24 as applicable.
  - (c) ASME Boiler and Pressure Vessel Code, 1989 Edition, Section V, Nondestructive Examination, Paragraph T-625 and Article 24 as applicable.
  - (d) ASTM E-165-40, Paragraph 7.1.
  - (e) NAVSEA 250-1500-1 (Rev. 10 June 1979, Rev. 11 May 1983, Rev. 12 December 1987) Paragraphs 12.5.1.1 and 12.5.1.1.1.
  - (f) MIL-STD-271F(SH), 27 June 1986, Paragraphs 5.3 and 5.3.1.
  - (g) MIL-STD-2132A(SH), 15 March 1985, Paragraphs 7.1.1, 7.1.2, and 7.1.3 and Appendix C, Paragraph 30.

The following test results were obtained:

Sulfur: NA wt. % of residue. Halogen: NA wt. % of residue  
 Cleaner residue (see Note 3) 0.0018 g/100g. 0.0024 g/100 ml.

2. We further certify that this material does not contain mercury as a basic element, and no mercury bearing equipment was used in its manufacture.

MAGNAFLUX®

M. Plamoottil  
 M. Plamoottil - Manager, Quality Assurance

- NOTES:
1. Our batch number appears on the bottom of all aerosol cans and on the label of all bulk containers.
  2. Most specifications require test results stated in percent but some require parts per million (ppm). To convert "percent" figures to "parts per million" move the decimal four places to the right.
  3. NAVSEA 250-1500-1, MIL-STD-271, MIL-STD-2132, and ASME Section V all require that materials be subject to a procedure to evaporate off volatile solvents before analysis for sulfur and halogen. According to these specifications, only those residues higher than 0.005 g/100 ml shall be analyzed for sulfur and halogen. Lower residues shall be reported.
  4. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

Form No. 1569 R-1/90

# Pocket Thermometer

RANGE

0 - 1000 °F

IDENTIFICATION NO. FNP-DT-3

☐ PERIODIC CALIBRATION

REASON FOR CALIBRATION.  
(CHECK ONE):

☒ CALIBRATION CHECK

☐ OTHER: \_\_\_\_\_

LAST CALIBRATION DATE: 7-3-90

Ambient Temperature: 71°F

CALIBRATION DUE DATE: 1-3-91

Relative Humidity: 51%

NEXT CALIBRATION DUE DATE: 7-3-91

STANDARDS USED	IDENT NUMBER	CAL. DUE DATE
Digi-Cal II	FNP-ATC-9353	6-20-91

* INPUT	AS FOUND	INDICATION	ADJUSTED	ERROR
°F Read off of F Digi-Cal II		DESIRED °F		°F
0	000	-4 - +4		0
100	100	96 - 104		0
200	203	196 - 204		+3
300	303	296 - 304		+3
400	402	396 - 404		+2
500	500	496 - 504		0
600	599	596 - 604		-1
700	700	696 - 704		0
800	801	796 - 804		+1
900	901	896 - 904		+1
1000	1002	996 - 1004		+2

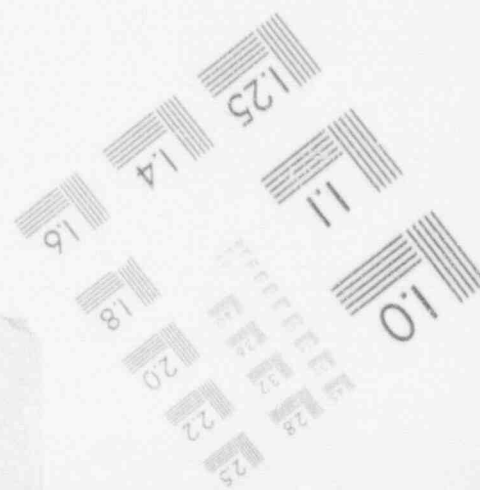
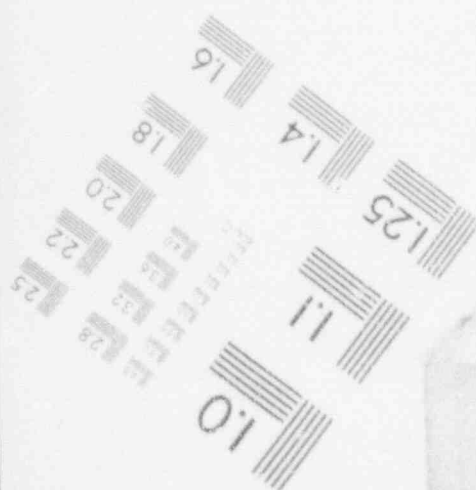
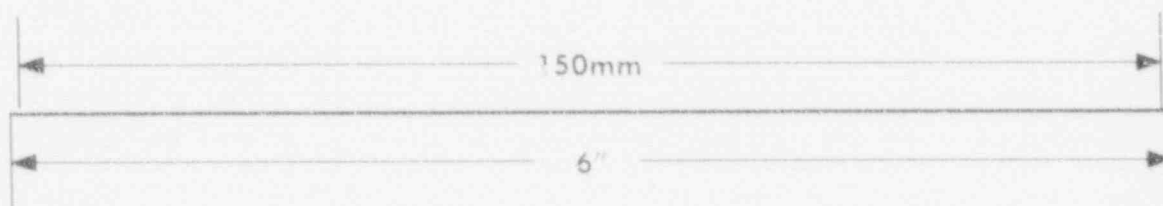
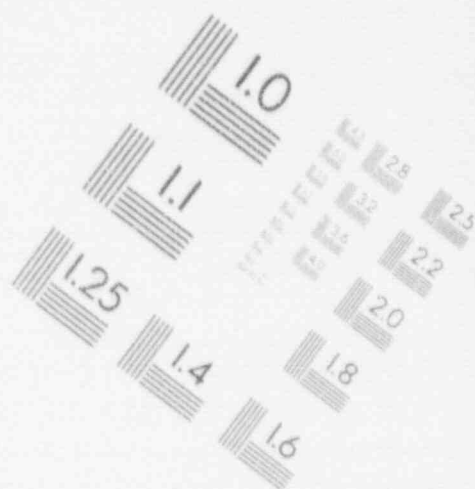
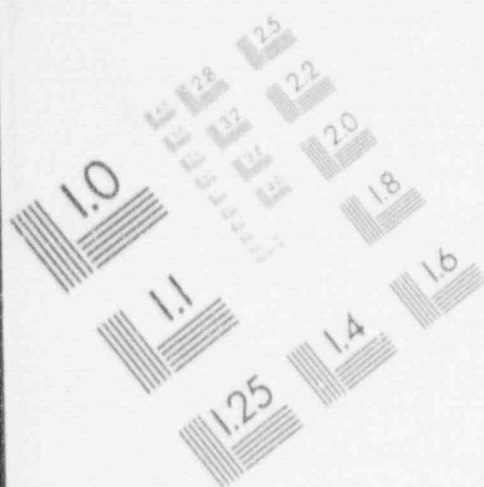
REMARKS: Actual input is millivolts converted to °F By Digi-Cal II

CALIBRATED BY: Jordan/C. Cal DATE: 1-3-91

REVIEWED BY: Cassie Camack DATE: 1-4-91

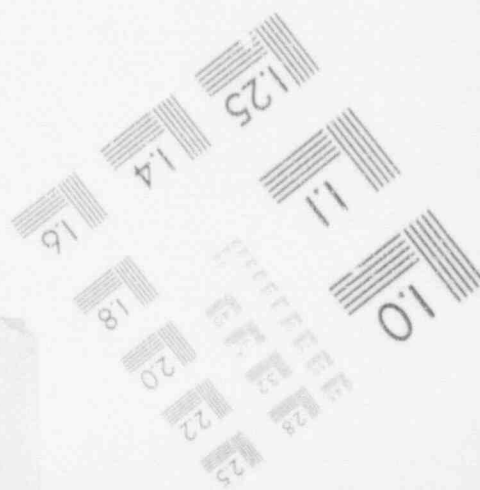
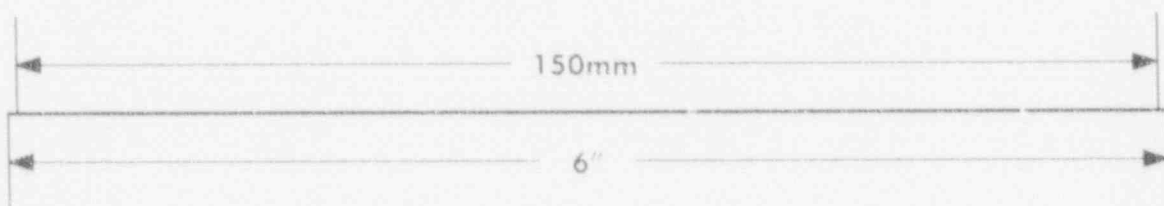
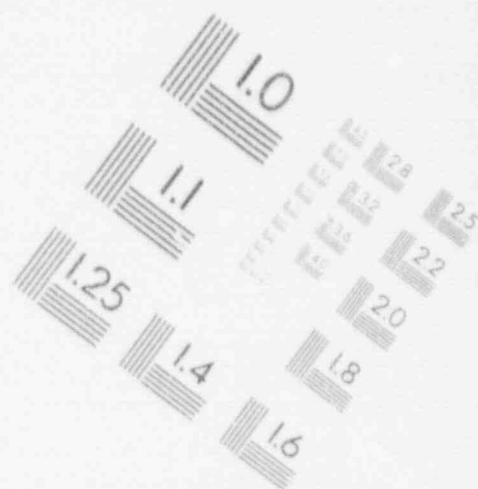
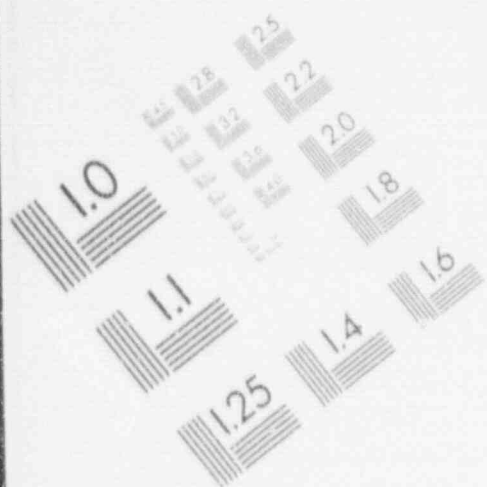
# 1

## IMAGE EVALUATION TEST TARGET (MT-3)



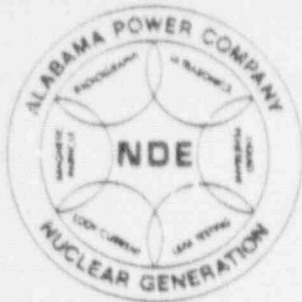
# 1

## IMAGE EVALUATION TEST TARGET (MT-3)



**NONDESTRUCTIVE  
EXAMINATION  
PROCEDURES**





# NUCLEAR GENERATION NDE PROGRAM



Alabama Power

FNP-0-M-024

TITLE Liquid Penetrant Examination (Color Contrast and Fluorescent)		
PROCEDURE NDE-PT-001	REVISION NO. 7	EFFECTIVE DATE

Tom McClain 1-22-91  
Prepared By (NDE Level III)

Donald E. Mansfield 1/22/91  
Manager - Nuclear Maintenance Support

Quinn D. Mays 1-22-91  
Approved By (NDE Level III)

Robert H. Bengtson  
Manager - Performance and Planning, Farley Nuclear Plant

Rev. 8

NDE-PT-001

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2		X			X	X				
3		X			X	X				
4		X				X				
5		X				X				
6		X				X				
7		X				X				
8		X				X				
9		X				X				
10		X				X				
11		X				X				
12		X				X				
13		X	X			X		X		
14		X				X				
15		X								
16		X				X				

NDE-PT-001

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19		X								
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21		X								
22		X								
23		X								
24		X								
25		X								
26		X								
27		X								
28		X								
29		X								
30		X								
31		X								
32		X				X				


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1.0 PURPOSE

This procedure provides techniques to be used for performance of Liquid Penetrant Examinations at Farley Nuclear Plant (FNP) in accordance with the 1983 Edition through the Summer 1983 Addenda of the ASME Boiler and Pressure Vessel Code, Section V, Article 6.

2.0 SCOPE

2.1 This procedure is for the liquid penetrant examination of nonporous materials of nuclear power plant components.

2.2 All liquid penetrant examinations shall be performed in accordance with this procedure and when required by the following referencing codes:

ASME Section III, 1974 Edition, with Addenda through Summer 1975

ASME Section V, 1983 with Addenda through Summer 1983

ASME Section VIII, Division 1, 1974 Edition, with Addenda through Summer 1975

ASME Section XI, 1983 Edition, with Addenda through Summer 1983

ANSI B31.1-1973

AWS D1.1-1986


2.3 Appendix A to this procedure provides detailed information as to specific techniques to be used for application of this procedure.

2.4 Appendix B to this procedure provides the acceptance criteria associated with the above codes.

3.0 PERSONNEL QUALIFICATION3.1 Requirements

3.1.1 All APC examiners performing Liquid Penetrant examinations per this procedure shall be qualified and certified in accordance with the requirements of the Alabama Power Company Nuclear Generation Department NDE Training, Qualification and Certification Procedure, NDE-001, which meets or exceeds the requirements of the American Society of Nondestructive Testing Recommended Practice No. SNT-TC-1A 1980 Edition.

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3.1.2 All contractor personnel performing liquid penetrant examinations under the FNP-QQA Program shall be qualified and certified in accordance with their employer's written practice, which has been reviewed and approved by APC per Section 7.0 of FNP-O-AP-31.

3.1.3 The Liquid Penetrant examinations may be performed by a Level I examiner under direct supervision of a Level II or III; however, all interpretation of the results of the examinations shall be performed by a certified Level II or III examiner.

#### 4.0 EXAMINATION METHODS, TECHNIQUES AND MATERIALS

##### 4.1 Methods and Techniques

4.1.1 Either color contrast or fluorescent penetrant methods may be used in accordance with the techniques described in Appendix A. For each method, either solvent removable or water washable techniques will be used.

4.1.2 Fluorescent penetrant inspection shall not follow a color contrast penetrant examination.

4.1.3 A retest with water washable penetrant is not recommended as it may cause loss of marginal indications.

##### 4.2 Materials

4.2.1 Intermixing of penetrant materials from different family groups or brands is not permitted.


4.2.2 Clean, dry, lint-free cloths or absorbent paper towels shall be used for cleaning and removal of penetrant.

4.2.3 Inspection aids such as pyrometers, thermometers, magnifying glasses, flashlights, rulers, and comparators may be used.

4.2.4 Penetrant materials shall be analyzed for sulfur and halogen content in accordance with the ASME Code, Section V, Article 6, Paragraph T-640. The residual amounts of total sulfur or halogen shall not exceed one percent by weight. These records shall be maintained onsite by Farley Nuclear Plant

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Document Control. Only materials approved by FNP Procedure FNP-AP-44 shall be used. These approved materials are listed in Appendix A.


5.0 GENERAL PROCEDURE5.1 Safety

- 5.1.1 Safety precautions shall be followed in accordance with instructions furnished by the manufacturer with each material.
- 5.1.2 Some penetrant systems are highly flammable and should be used cautiously. They are not to be heated or used near an open flame.
- 5.1.3 Proper ventilation should be maintained during normal use. For elevated temperature examinations, avoid breathing vapors. Proper ventilation should be used when applying high temperature penetrant materials to a heated surface. Airline masks or self-contained breathing equipment may be required if excessive vapors are generated.
- 5.1.4 When using high temperature penetrant materials, avoid open flames and other sources of ignition. Do not set spray cans on heated surfaces.
- 5.1.5 Hands should be washed after contact with penetrant materials, as these materials may irritate the skin.

5.2 Temperature Limits

- 5.2.1 Except as qualified for the specific technique (refer to Appendix A), the temperature of the penetrant and the surface of the part to be processed shall not be below 60° F nor above 125° F throughout the examination period. Local heating or cooling is permitted provided the part temperature remains in the range of 60° F to 125° F during the examination.
- 5.2.2 Where it is not practical to comply with these temperature limitations, other temperatures may be used provided the specific method and technique to be used is qualified in accordance with the ASME Code, Section V, Article 6, paragraph T-680. When qualified, extended temperature ranges will be specified in Appendix A of this procedure.

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### 5.3 Surface Preparation

5.3.1 In general, satisfactory results may be obtained when the surface is in the as-welded, as-rolled, as-cast, or as-forged condition, but surface preparation by grinding or machining may be necessary in some instances to remove such soils as carbon, rust, scale, and slag which could mask indications of unacceptable discontinuities.

5.3.2 Blasting with shot or dull sand or acid treatment shall not be used for surface preparation of any material prior to the liquid penetrant examination. Power wire brushing shall not be used.

### 5.4 Area of Examination

5.4.1 If the surface to be examined is large enough to preclude complete examination within the prescribed time, the surface shall be examined in increments.

5.4.2 When inspecting welds, the weld and adjacent base material within a half inch of the weld shall be examined, except for the following Section XI examinations:

#### Class 1


- 1) Head-to-Flange Weld Joint - Figure 001-1
- 2) Pipe Branch Connection - Figure 001-2, 3, 4
- 3) Similar and Dissimilar  
Metal Welds in Components  
and Piping and Socket Welds-Figure 001-5

#### Class 2

- 1) Nozzle-to-Vessel - Figure 001-6, 7, 8
- 2) Branch Connection Welds - Figure 001-9, 10, 11, 12, 13

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- 5.4.3 When inspecting base material, the entire area of interest shall be inspected.
- 5.4.4 The examination area for bolts, studs, nuts, bushings, washers, and cap screws shall include the entire surface.
- 5.4.5 When required, 100 percent of the machined bore and each of the three keyways on the reactor coolant pump flywheel shall be examined when the flywheel is disassembled.
- 5.4.6 When conditions limit the area of examination, the limitations shall be recorded and an approximate percentage value assigned governing the area examined.

6.0 GENERAL EXAMINATION TECHNIQUE6.1 Illumination

## 6.1.1 Color Contrast Method

Adequate illumination is required to ensure no loss of sensitivity of the examination. When prevailing light is not adequate, acceptable lighting may be obtained by a 100 watt light bulb within three feet of the test surface, a two "C" or "D" cell size flashlight within six inches of the test surface, or an equivalent light source. When in question, adequate illumination shall be verified by observation of a 1/32 inch black line on an 18 percent neutral gray card or a 1/32 inch division line on a scale.

## 6.1.2 Fluorescent Method

- 6.1.2.1 Examination shall be conducted in a darkened area using a filtered 100 watt "black light" bulb, as a minimum, placed no further than 15 inches from the surface. The black light intensity at the surface under examination shall be determined at the beginning and conclusion of work, at least every eight hours and whenever the work location is changed, using a meter which is sensitive to light in the ultraviolet spectrum, centered on 365 nm (3650A).



6.1.2.2 Two readings shall be taken: The first without a filter and the second with an ultraviolet (365 nm) filter over the sensing element of the meter. The second reading is deducted from the first and the difference shall be a minimum of 800 MW/cm<sup>2</sup>. As an alternate, the black light intensity shall be at least 90 foot candles at the work station using a Weston 703 Type III meter, or equivalent, without a filter in the meter and with a 10X multiplier disk. The "black light" shall be filtered ultraviolet radiation of wavelengths within the range of 330 nm to 390 nm (3300-3900A). The bulb shall be allowed to warm up for not less than five minutes prior to use in the examination.

## 6.2 Precleaning

6.2.1 Prior to examination, the surface to be examined and the adjacent areas within at least one inch shall be dry and free of any dirt, grease, lint, water, paint, scale, welding flux, weld spatter, oil or any other extraneous matter that could obscure surface openings or otherwise interfere with the examination.

6.2.2 The test area shall be cleaned to remove surface oil and dirt using penetrant cleaner prior to penetrant application. After cleaning, the area shall be wiped dry to ensure the cleaner has been removed.


## 6.3 Drying

After precleaning, drying of the surfaces to be examined shall be accomplished by normal evaporation or with forced hot air, as appropriate.

## 6.4 Penetrant Application

After the surface shall be kept wetted with penetrant during the entire application time specified for the method employed. If the penetrant does not wet the surface, but tends to pull away, leaving local areas of unwet surface, or if the penetrant is allowed to become dry, the surface shall be recleaned and the procedure shall be repeated.

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## 6.5 Removal of Penetrant

After the specified penetration time has elapsed, any penetrant remaining on the surface shall be removed as follows, taking care to minimize removal of penetrant from discontinuities. With fluorescent penetrants, excess penetrant removal shall be verified using a black light to ensure adequate removal.

### 6.5.1 Solvent Removable Penetrants

To the extent practical, excess penetrant shall be removed by wiping with a cloth or absorbent paper towel, repeating the operation until most traces of penetrant have been removed. The remaining traces shall be removed by wiping the surface lightly with a cloth or absorbent paper towel moistened with solvent. To minimize removal of penetrant from discontinuities, care shall be taken to avoid the use of excess solvent. Flushing the surface with solvent following the application of the penetrant and prior to developing, is prohibited.

### 6.5.2 Water Washable Penetrant

Excess penetrant shall be removed with a demineralized/sanitary water spray.


## 6.6 Drying

For the solvent removable technique, the surfaces may be dried by normal evaporation, blotting, wiping, or forced air. For the water washable technique, the surfaces shall be dry before a solvent based (nonaqueous) developer is applied.

## 6.7 Developing

Only solvent based (nonaqueous) wet developer shall be used. Immediately before application to the surface, the developer must be thoroughly agitated to ensure adequate dispersion of the suspended particles. A smooth, thin, uniform layer of the suspended powder shall be sprayed on the surface. Insufficient coating thickness may not draw the penetrant out of the discontinuities. Conversely, excessive coating thickness may result in pooling and, thus, mask indications.

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### 6.8 Evaluation

- 6.8.1 With color contrast penetrants, the developer forms a more or less uniform white coating. Surface discontinuities are indicated by bleeding out of the penetrant, which is normally of a deep red color, staining the developer. Indications with a light pink color may indicate excessive cleaning. Inadequate cleaning may leave an excessive background making interpretation difficult.
- 6.8.2 With fluorescent penetrant, evaluation is essentially the same as for color contrast penetrants, except that the examination is conducted under a black light.
- 6.8.3 The true size and type of a discontinuity are difficult to evaluate if the dye diffuses excessively in the developer. Consequently, it is required that the examiner observe the surface during the application of the developer to detect the nature of certain indications which might tend to bleed out profusely.
- 6.8.4 Broad areas of fluorescence or pigmentation which could mask indications of discontinuities are unacceptable, and the areas shall be cleaned and re-examined.
- 6.8.5 Relevant indications are those which result from mechanical discontinuities, as discussed in Appendix B.
- 6.8.6 Nonrelevant indications which could mask indications of defects are unacceptable. Any indication which is believed to be nonrelevant shall be re-examined to verify whether or not actual defects are present. Surface conditioning may precede the re-examination.
- 6.8.7 Discontinuities at the surface will be indicated by bleeding out of the penetrant; however, localized surface irregularities such as machining marks or other surface conditions, may produce false indications.

### 6.9 Post Examination Cleaning

After completion of the test, penetrant material shall be cleaned from the area of the test.

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### 7.0 DEFECT REMOVAL AND REPAIR

Unacceptable defects shall be removed and a re-examination shall be made to assure complete removal or reduction to an acceptable size. Whenever a defect is removed and subsequent repair welding is not required, the excavated area shall be blended into the surface so as to avoid sharp notches, crevices, or corners. Completed repairs shall be re-examined in accordance with this procedure and other methods as required.

### 8.0 DETAILED EXAMINATION TECHNIQUES

Various examination techniques are provided in Appendix A of this procedure. The NDE Examiner shall document the technique used for examination on the Surface Examination Record (NDE Form 002). This procedure shall be revised to include additional examination techniques when required.

### 9.0 ACCEPTANCE CRITERIA

Acceptance standards from the following codes are given in Appendix B to this procedure. The NDE Examiner shall document the section of this appendix used for acceptance on the Surface Examination Record (NDE Form 002). This procedure shall be revised to include other frequently used acceptance standards as necessary.

ASME Section III, 1974 Edition, with Addenda through Summer 1975.

ASME Section VIII, Division 1, 1974 Edition with Addenda through Summer 1975.

ASME Section XI, 1983 Edition, with Addenda through Summer 1983.

ANSI B31.1-1973.

AWS D1.1-1986.



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#### 10.0 RESPONSIBILITY

An NDE Level III Examiner certified in liquid penetrant examination is responsible for developing and approving liquid penetrant examination procedures and techniques. The Manager Performance and Planning or his designee is responsible for the satisfactory implementation of the NDE Program, including this procedure.

#### 11.0 SURFACE EXAMINATION RECORD

NDE Form 002 shall be used to document the method of inspection, the inspection results, and any applicable information. A copy of the Surface Examination Record shall be maintained with the Maintenance Work Request, Shop Work Order or other document as appropriate and retained on file with FNP Document Control as a permanent record.

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Examination Techniques  
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APPENDIX A-1

Technique: Color Contrast, Solvent Removable - Welds and Base Materials  
(400° F to 1500°)

1.0 Materials - Magnaflux Spotcheck

<u>Penetrant</u>	<u>Developer</u>	<u>Cleaner</u>	<u>Type</u>
SKL-HF/SKL-S	SKD-S	SKC-S	Visible Solvent Removable
SKL-HF/S	SKD-NF/ZP-9B or SKD-NF	SNC-NF/ZC-7B or SKC-NF	Visible Solvent Removable

2.0 Equipment

- a. 100 watt light or two "C" or "D" cell or equivalent flashlights (as required).
- b. Calibration thermometer or pyrometer.
- c. Clean lint free cloths or absorbent paper towels.
- d. Bristle applicator brush.
- e. Machinist scale with at least 1/32 inch graduations.

3.0 Pre-Examination

- a. Verify penetrant materials are certified.
- b. Check surface condition of examination area for excessive roughness and irregularity.
- c. Measured temperature of surface to be examined with thermometer and record: 400° F to 1500° F maximum.
- d. Verify lighting on examination surface is adequate.

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#### 4.0 Examination

- a. Preclean surface to be examined and at least one inch of base material using cleaner and appropriate cloth or paper towel.
- b. Dry by evaporation; 5 minutes minimum.
- c. Apply Penetrant by spraying or brushing. Cover examination area and an additional half inch of base material as a minimum (See Paragraph 5.4 of General Section). Penetration time: 10 minutes minimum - 30 minutes maximum. Keep surface wetted during entire period.
- d. Remove Excess Penetrant by first wiping surface with appropriate dry, clean cloth or paper towel until most visible traces are removed. Finally, wipe lightly with cloth or towel moistened with cleaner until only a slight trace of penetrant remains on the towel.
- e. Dry by evaporation. Developer should be applied as soon as excess cleaner is removed.
- f. Apply Developer by spraying in light uniform coats. Observe examination surface during application and development.
- g. Examine and evaluate per paragraph 5.0 within 7 to 30 minutes after application of developer.

#### 5.0 Acceptance Standard

Perform evaluation as required to appropriate standard found in Appendix B of this procedure.

#### 6.0 Post Clean

The developer and penetrant should be removed by wiping the surface thoroughly with cloths saturated with a suitable solvent. Spraying directly onto the examination area from pressurized containers is allowed for post-examination cleaning. The surface shall be wiped dry with clean, lint-free cloths or absorbent paper.

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## APPENDIX A-2

Technique: Color Contrast, Solvent Removable - Welds and Base Materials at High Temperature (1450 F to 3250 F)

1.0 Materials - Magnaflux Spotcheck

<u>Penetrant</u>	<u>Developer</u>	<u>Cleaner</u>	<u>Type</u>
SKL-HT	SKD-HT	SKC-NF/ZC-7B or SKC-NF/ZC-7	Visible Solvent Removable

2.0 Equipment


- 100 watt light or two "C" or "D" cell or equivalent flashlight (as required).
- Calibrated thermometer or pyrometer.
- Gloves.
- Swab or bristle applicator brush.
- Wire brush.
- Clean, lint-free cloths or absorbent paper towels.
- Machinist scale with at least 1/32 inch graduations.

3.0 Safety

- Avoid breathing vapor spray mist. Use in well ventilated areas only. Do not spray or use near open flames, welding arcs, or on hot surfaces over 3250 F. SKC-NF/ZC-7B or SKC-NF/ZC-7 and SKD-HT contain chlorinated solvents whose vapors partially decompose to toxic gases when subjected to temperature over 5000 F.
- Do not smoke or eat while using high temperature Spotcheck. Wash hands thoroughly after use.
- Protective hand-wear is recommended to prevent drying out and staining of skin as well as protection from hot test part surface.

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4.0 Pre-Examination

- a. Verify penetrant materials are certified.
- b. Check surface condition of examination area for excessive roughness and irregularity.
- c. Measure temperature of surface to be examined and record: 145° F to 325° F maximum.
- d. Verify lighting on examination surface is adequate.
- e. Do not process areas larger than can be conveniently handled within the maximum dwell times.

5.0 Examination

- a. Preclean by spraying cleaner directly onto examination surface and then wipe with appropriate clean cloth or paper towel. Spray cleaner onto cloth or towel if cleaner evaporates from hot surface too quickly for adequate cleaning.
- b. Drying at elevated temperature is not a practical concern as only minimum time is required for complete evaporation: 2 minutes minimum.
- c. Apply Penetrant by spraying or brushing. Cover examination area and an additional half inch of material as a minimum (See Paragraph 5.4 of General Section).  
Penetration Time:

TemperaturePenetration Time

145° F up to 200° F

4 to 5 minutes

200° F to 325° F

3 to 4 minutes


Keep surface wetted during entire period.

- d. Remove Excess Penetrant by first wiping surface with appropriate dry, clean cloth or paper towel. When required, final traces of penetrant are then removed by a cloth or paper towel dampened with cleaner. Final wiping with a dampened cloth or towel may not be required on very smooth surfaces provided background is not excessive. Do not flood surface with cleaner as sensitivity may be impaired.



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- e. Drying at elevated temperature is not a practical concern as only minimal time is required for complete evaporation and drying: two minutes minimum.
- f. Apply Developer by spraying over examination area such that a thin wet coating is applied. Observe examination surface during application and development.
- g. Examine and evaluate within 3 to 15 minutes after developer has dried (i.e., white coating is formed).

6.0 Acceptance Standard

Perform evaluation as required to appropriate standard found in Appendix B of this procedure.

7.0 Post Clean

Use a clean wire brush to remove the bulk of the developer coating. Then spray cleaner directly onto surface and wipe clean with a cloth or paper towel.

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APPENDIX A-3

Technique: Fluorescent Dye, Solvent Removable - Bolting

1.0 Materials - Magnaflux Zyglo

<u>Penetrant</u>	<u>Developer</u>	<u>Cleaner</u>	<u>Type</u>
ZL22C	SKD-NZ/ZP-9B or SKD-NF	SKC-NF/ZC-7B or SKC-NF/ZC-7	Fluorescent Solvent Removable

2.0 Equipment


- a. 100 watt filtered black light.
- b. Calibrated light meter capable of measuring black light intensity in microwatts per square centimeter (MW/cm<sup>2</sup>) or Weston 703 Type III meter, or equal without filter in the meter and with a 10X multiplier disk.
- c. Calibrated thermometer or pyrometer.
- d. Clean lint-free cloths or absorbent paper towels.
- e. Bristle applicator brush.
- f. Machinist scale with at least 1/32 inch graduations.

3.0 Pre-Examination

- a. Verify penetrant materials are certified.
- b. Check surface condition of part for excessive roughness and irregularity.
- c. Measure temperature of surface to be examined with thermometer and record.
- d. Verify black light intensity on examination surface is adequate. A minimum difference of 800 MW/cm<sup>2</sup> or 90 ft. - candles shall be measured at 15 inches maximum distance.

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4.0 Examination

- a. Preclean part using cleaner and appropriate cloth or paper towels. Other cleaning methods may be used provided they meet the requirements of paragraph 5.3 of this procedure and the cleaning materials are approved by FNP Procedure FNP-O-AP-44.
- b. Dry: For Magnaflux cleaner, dry by evaporation 5 minutes minimum.
- c. Apply Penetrant by spraying or brushing. Completely cover part. Penetration time: 10 minutes minimum - 30 minutes maximum. Keep surface wetted during entire period.
- d. Remove Excess Penetrant using appropriate dry, clean cloth or paper towel until most visible traces are removed. Finally, wipe lightly with cloth or towel moistened with cleaner until only slightly trace of penetrant remains on towel. Verify removal on examination surface using black light.
- e. Dry by evaporation 5 minutes minimum to 10 minutes maximum.
- f. Apply Developer
  1. Turn on black light allowing 5 minutes minimum warmup.
  2. Apply developer by spraying in light, uniform coats.
  3. Observe examination surface under black light immediately after application and during development.
- g. Examine and evaluate under black light within 7 to 30 minutes after application of developer.


5.0 Acceptance Standard

Perform evaluation as required to appropriate acceptance standard found in Appendix B of this procedure.

6.0 Post Clean

The developer and penetrant should be removed by wiping the surface thoroughly with cloths saturated with a suitable solvent. Spraying directly onto the examination area from pressurized containers is allowed for post-examination cleaning. The surface shall be wiped dry with clean, lint-free cloths or absorbent paper.

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APPENDIX A-4

Technique: Fluorescent Dye, Water Washable - Bolting

1.0 Materials - Magnaflux Zyglo

<u>Penetrant</u>	<u>Developer</u>	<u>Type</u>
ZL-17C	ZP-9C or ZP-9E	Fluorescent Water Washable


2.0 Equipment

- 100 watt filtered black light.
- Calibrated light meter capable of measuring black light intensity in microwatts per square centimeter ( $\text{MW}/\text{cm}^2$ ) or Weston 703 Type III meter, or equal without filter in the meter and with a 10X multiplier disk.
- Calibrated thermometer or pyrometer.
- Clean lint-free cloths or absorbent paper towels.
- Bristle applicator brush.
- Machinist scale with at least 1/32 inch graduations.

3.0 Pre-Examination

- Verify penetrant materials are certified.
- Check surface conditions of examination area for excessive roughness and irregularity.
- Measure temperature of surface to be examined with thermometer and record.
- Verify black light intensity on examination surface is adequate. A minimum difference of  $800 \text{ MW}/\text{cm}^2$  or 90 ft. - candles shall be measured at 15 inches maximum distance.

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#### 4.0 Examination

- a. Preclean part by vapor degreasing, ultrasonic cleaning or other cleaning methods, provided they meet the requirements of paragraph 5.3 of this procedure and the cleaning materials are approved by FNP Procedure FNP-O-AP-44. Parts must be left clean, free of all oil, grease or other foreign contaminating substances. Allow a minimum of five minutes for drying to ensure that part is thoroughly dry.
- b. Apply Penetrant by spraying, brushing or dipping. Completely cover part. Penetration time: 5 minutes minimum - 30 minutes maximum. Keep surface wetted during entire period.
- c. Remove Excess Penetrant with water spray. Water pressure shall not exceed 50 psi and the temperature shall not be below 40° F nor exceed 110° F. Verify removal of excess penetrant using black light.
- d. Dry:
  1. Drying may be accomplished by either blotting with an appropriate cloth or paper towel or by using circulating warm air provided the temperature of the part is not raised above 125° F. Drying is adequate when all surface moisture has evaporated.
  2. The part may be placed in a thermostatically controlled recirculating warm air dryer. An air blow-off of rinse water prior to placement in the dryer will hasten the drying rate. The part should be removed from the dryer as soon as all surface moisture has evaporated. Excessive drying is detrimental to the examination process.
- e. Apply Developer
  1. Turn on black light allowing 5 minutes minimum warmup.
  2. Apply developer by spraying in light, uniform coats.
  3. Observe examination surface under black light immediately after application and during development.
- f. Examine and evaluate within 7 to 30 minutes after application of developer.



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5.0 Acceptance Standard

Perform evaluation are required to appropriate acceptance standard found in Appendix B of this procedure.

6.0 Post Clean

Cleaning may be accomplished using clean demineralized/sanitary water and a scrub brush followed by drying.

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APPENDIX B  
Acceptance Standards  
Contents

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APPENDIX B-1

Weld Examination

Acceptance Standard

- (a) Applicability: Welds in ASME Code, Section III, Class 1, 2 and 3 Components, Component and Core Supports (NB, NC, ND, NF, and NG)
1. Evaluation of Indications
    - a. Relevant indications are those which result from mechanical discontinuities. Linear indications have a length more than three times the width. Rounded indications are circular or elliptical with the length equal to or less than three times the width.
    - b. Only indications with major dimensions greater than 1/16 inch shall be considered relevant.
  2. The following relevant indications are unacceptable:
    - a. Any cracks or linear indications.
    - b. Rounded indications with dimensions greater than 3/16 inch.
    - c. Ten or more rounded indications in any six square inch areas with the major dimension of this area not to exceed six inches with the dimension taken in the most unfavorable location relative to the indications being evaluated.
    - d. Four or more rounded indications in a line separated by 1/16 inch or less edge-to-edge.

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## APPENDIX B-1

Weld ExaminationAcceptance Standard

(b) Applicability: Welds in ASME Code, Section III Metal Containments (NE)


1. Evaluation of Indications

- a. Relevant indications are those which result from mechanical discontinuities. Linear indications have a length more than two times the width. Rounded indications are circular or elliptical with the length equal to or less than two times the width.
- b. Only indications with major dimensions greater than 1/16 inch shall be considered relevant.

2. The following relevant indications are unacceptable.

- a. All surfaces required to be examined shall be free of linear defects.
- b. Rounded indications with dimensions greater than 3/16 inch.
- c. Four or more rounded indications in a line separated by 1/16 inch or less edge-to-edge.

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APPENDIX B-1

Weld Examination

Acceptance Standard

(c) Applicability: Welds in ANSI B31.1 Piping


1. The following relevant indications are unacceptable:

- a. Any cracks or linear indications.
- b. Rounded indications with dimensions greater than 3/16 inch.
- c. Four or more rounded indications in a line separated by 1/16 inch or less edge-to-edge.
- d. Ten or more rounded indications in any six square inch area with the major dimension of this area not to exceed six inches with the dimension taken in the most unfavorable location relative to the indications being evaluated.



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## APPENDIX B-1

Weld Examination


## Acceptance Standard

(d) Applicability: Welds in AWS D1.1 Structures

1. Examination of ASTM A514 and A517 steels shall be performed not less than 48 hours after completion of welding.
2. A weld shall be acceptable by liquid penetrant examination if it shows that:
  - a. The weld has no cracks.
  - b. Through fusion exists between weld metal and base metal.
  - c. After removal of penetrant materials used for examination, the sum of diameters of piping porosity does not exceed 3/8 inch in any linear inch of weld nor does it exceed 3/4 inch in any 12 inch length of weld.

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## APPENDIX B-2

Weld Edge Preparation Examination

## Acceptance Standard

- (a) Applicability: Weld edge preparations in ASME Code, Section III, Class 1 and 2 Components (NB and NC).
1. Evaluation of Indications
    - a. Relevant indications are those which result from mechanical discontinuities. Linear indications have a length more than three times the width. Rounded indications are circular or elliptical with the length equal to or less than three times the width.
    - b. Only indications with major dimensions greater than 1/16 inch shall be considered relevant.
  2. The following relevant indications are considered unacceptable:
    - a. Laminar type discontinuities are acceptable without repair if they do not exceed one inch in length. The extent of all laminar type discontinuities shall be determined by ultrasonic examination. Indications exceeding one inch in length shall be repaired by welding to a depth of 3/8 inches or the depth of the indication, whichever is less, unless the ultrasonic examination reveals that the additional depth of repair is required to meet the ultrasonic examination requirements for the product form.
    - b. Other nonlaminar indications which are unacceptable are:
      1. Any linear indication greater than 3/16 inch long.
      2. Rounded indications with dimensions greater than 3/16 inch.
      3. Four or more indications in a line separated by 1/16 inch or less edge-to-edge.

## APPENDIX B-2

### Weld Edge Preparation Examination

#### Acceptance Standard

- (b) Applicability: Weld edge preparations in ASME Code, Section III, Core Supports (NG)

#### 1. Evaluation of Indications

- a. Relevant indications are those which result from mechanical discontinuities. Linear indications have a length more than three times the width. Rounded indications are circular or elliptical with the length equal to or less than three times the width.
- b. Only indications with major dimensions greater than 1/16 inch shall be considered relevant.
- c. Laminar type discontinuities in plate are acceptable repair if they do not exceed 1/2 inch in length. The extent of all laminar type indications exceeding 1/2 inch in length shall be determined by ultrasonic examination. Indications exceeding 1/2 inch shall be repaired by welding to a depth of 3/8 inch or the depth of the indication, whichever is less, unless the ultrasonic examination reveals that additional depth of repair is required to meet the ultrasonic examination requirement for the product form.

#### 2. The following relevant indications are unacceptable:

- a. Any linear indication greater than 1/8 inch long for materials one inch thick to under two inches thick and 3/16 inch for materials two inches thick and greater.
- b. Rounded indications with dimensions greater than 3/16 inch.
- c. Four or more indications greater than 1/16 inch long in a line separated by 1/16 inch or less edge-to-edge.
- d. Ten or more indications greater than 1/16 inch long in any six square inch area whose major dimension is no more than six inches with the dimensions taken in the most unfavorable location relative to the indications being evaluated.

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## APPENDIX B-3

Base Material Examination

## Acceptance Standard

- (a) Applicability: Base material for ASME Code, Section III, Class 1, 2 and 3 Components, and Core Supports (NB, NC, ND and NG).
1. Evaluation of Indications
    - a. Relevant indications are those which result from mechanical discontinuities. Linear indications have a length more than three times the width. Rounded indications are circular or elliptical with the length equal to or less than three times the width.
    - b. Only indications with major dimensions greater than 1/16 inch shall be considered relevant.
  2. The following relevant indications are unacceptable:
    - a. Any linear indication greater than 1/16 inch long for materials less than 5/8 inch thick, greater than 1/8 inch long for materials from 5/8 inch thick to less than two inches thick, and 3/16 inch for thicknesses two inches and greater.
    - b. Rounded indications with dimensions greater than 1/8 inch for thicknesses less than 5/8 inch and greater than 3/16 inch for thicknesses 5/8 inch and greater.
    - c. Four or more indications in a line separated by 1/16 inch or less edge-to-edge.
    - d. Ten or more indications in any six square inch area whose major dimension is no more than six inches with the dimension taken in the most unfavorable location relative to the indications being evaluated.

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## APPENDIX B-4

Material Examination

## Acceptance Standard

- (a) Applicability: Welds and materials in ASME Code, Section VIII, Division 1 Vessels
1. Evaluation of Indications
    - a. Relevant indications are those which result from mechanical discontinuities. Linear indications have a length more than three times the width. Rounded indications are circular or elliptical with the length equal to or less than three times the width.
    - b. Only indications with major dimensions greater than 1/16 inch shall be considered relevant.
  2. All surfaces to be examined shall be free of:
    - a. Relevant linear indications.
    - b. Rounded indications with dimensions greater than 3/16 inch.
    - c. Four or more defects in a line separated by 1/16 inch or less (edge-to-edge) except where the specification for the material establishes different requirements for acceptance.



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APPENDIX B-5

Material Examination

Acceptance Standard


- (a) Applicability: Welds and materials within the inservice inspection requirements of Section XI.
- Indications shall be evaluated per the applicable section of IWB-3500 of Section XI.
- (b) Applicability: ASME Code, Section XI, Pressure Retaining Bolting Two Inches and Larger in Diameter.

Allowable surface indications in pressure retaining bolting shall not exceed the following limits:

- a. Nonaxial indications, 1/4 inch in length.
- b. Axial indications, 1 inch in length.

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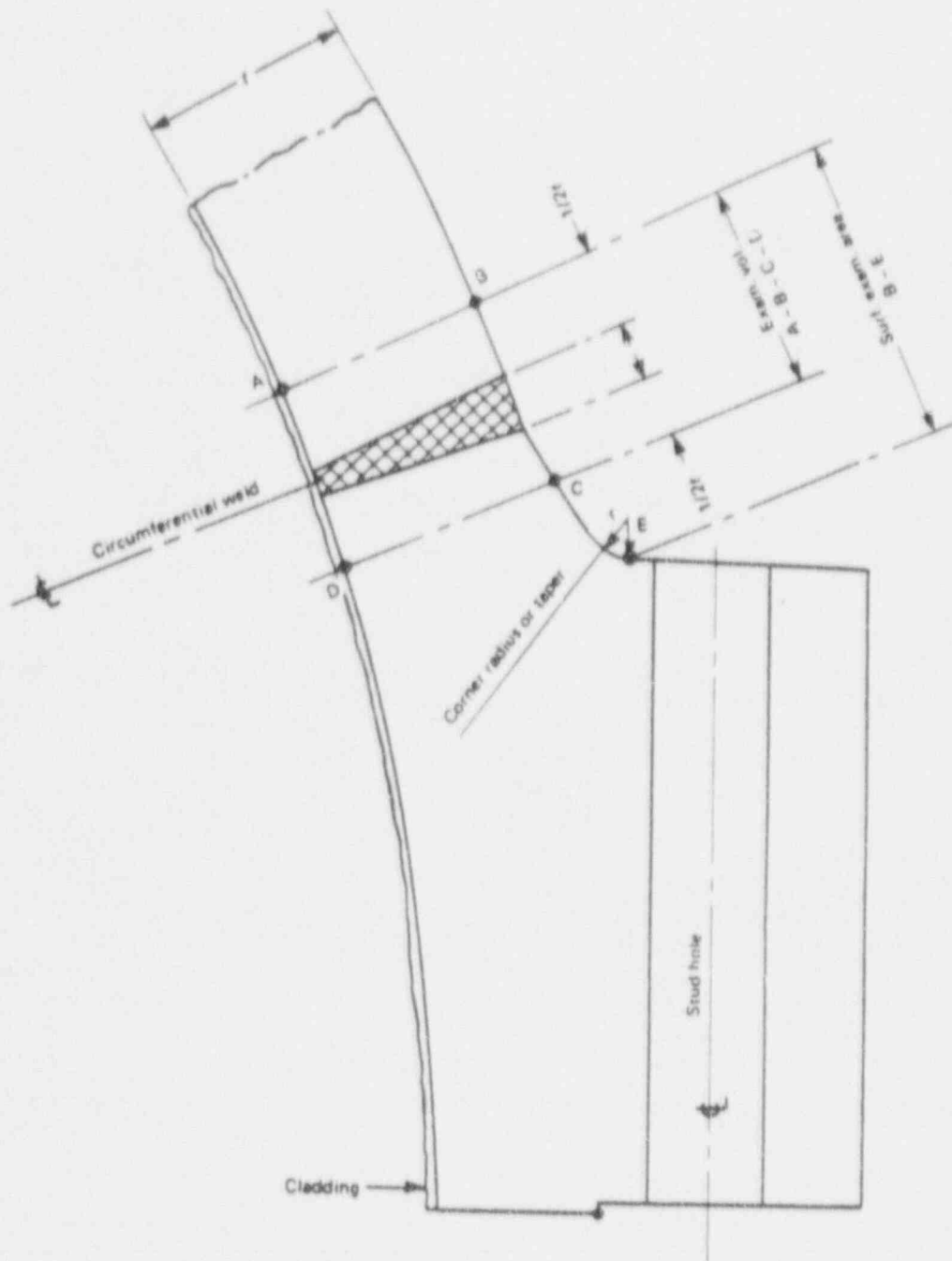



Figure 001-1  
Class 1  
Head-to-Flange Weld Joint

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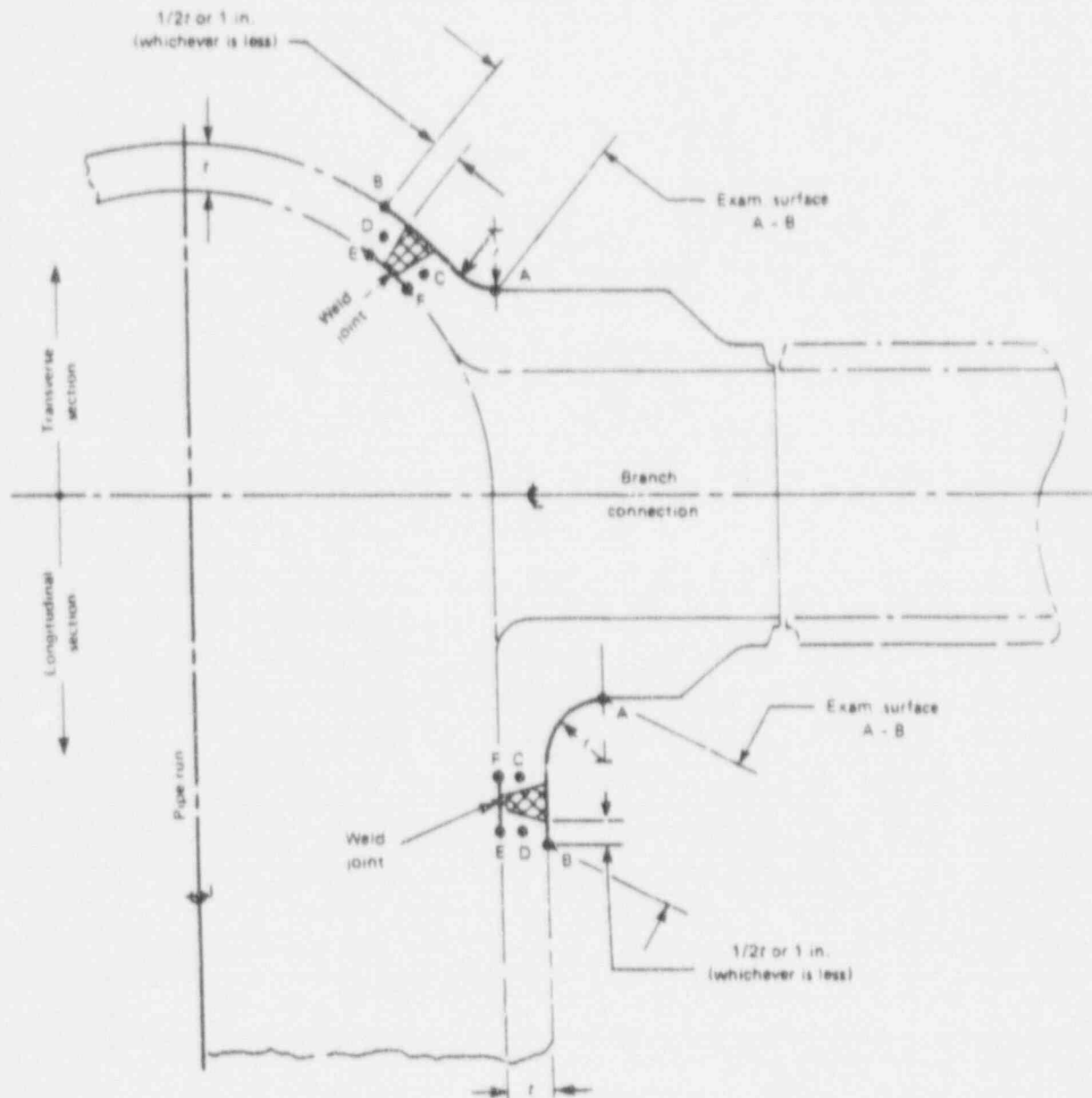



Figure 001-2  
Class 1  
Pipe Branch Connection

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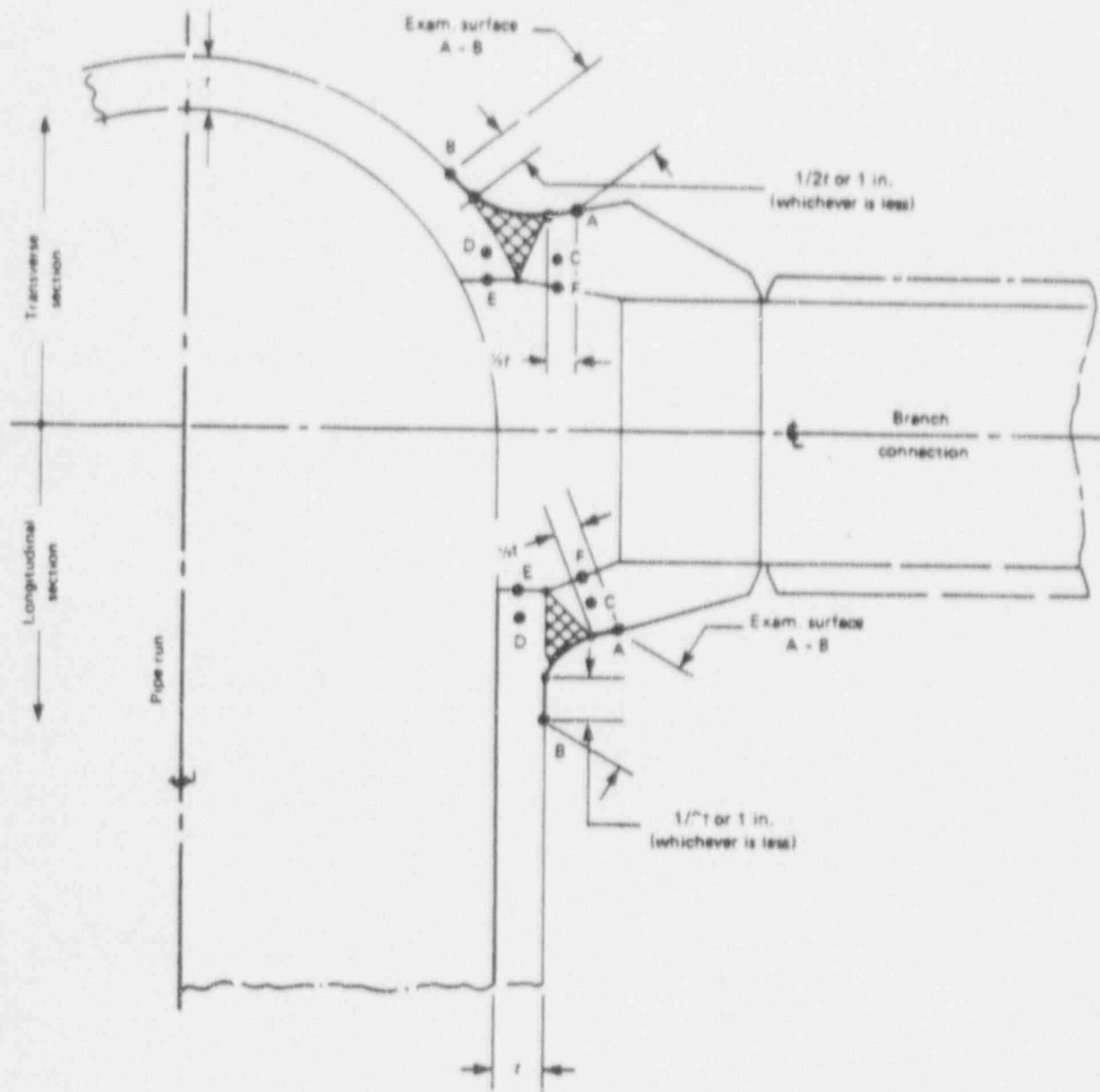



Figure 001-3  
Class 1  
Pipe Branch Connection

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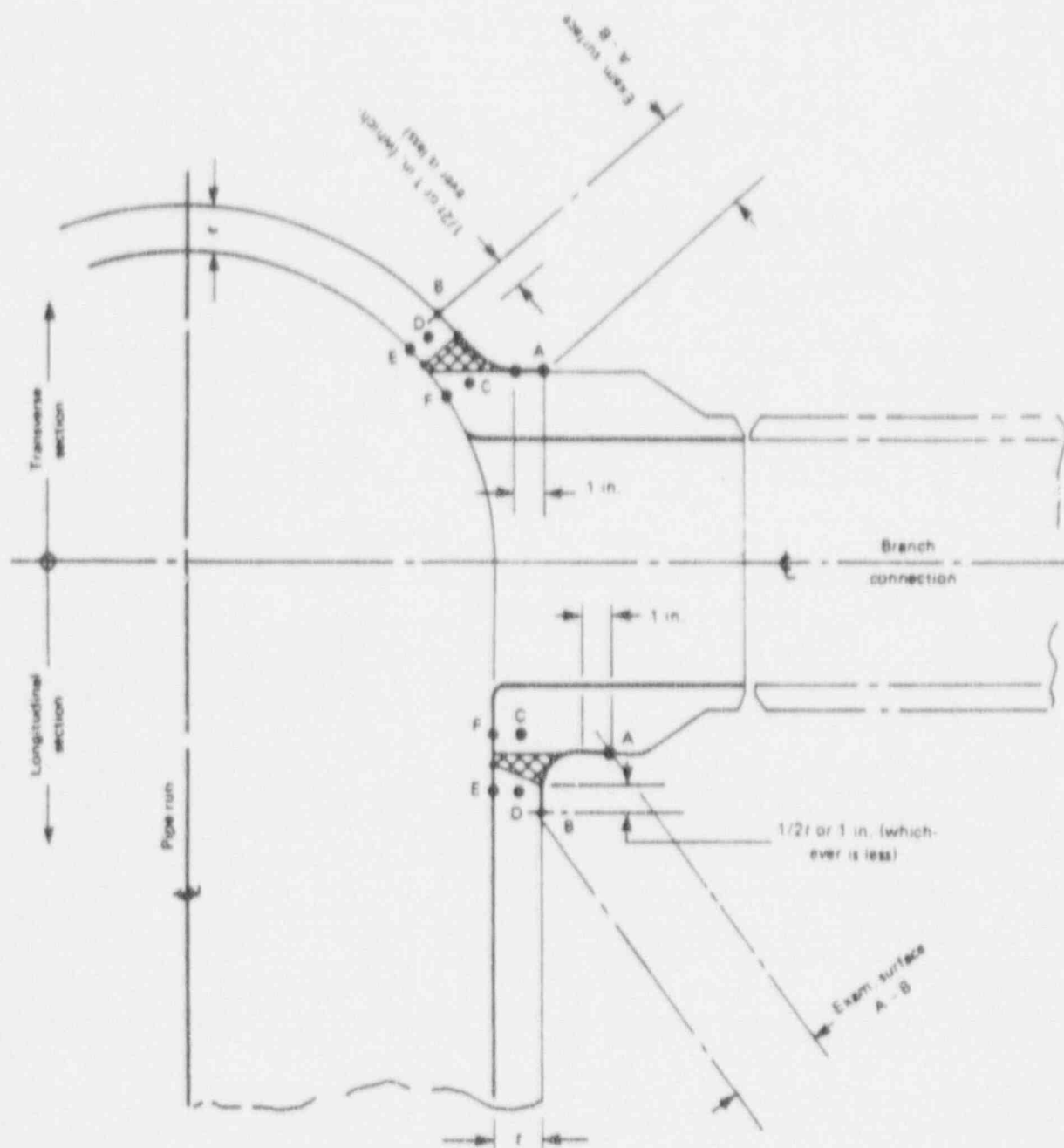


Figure 001-4  
Class 1  
Pipe Branch Connection



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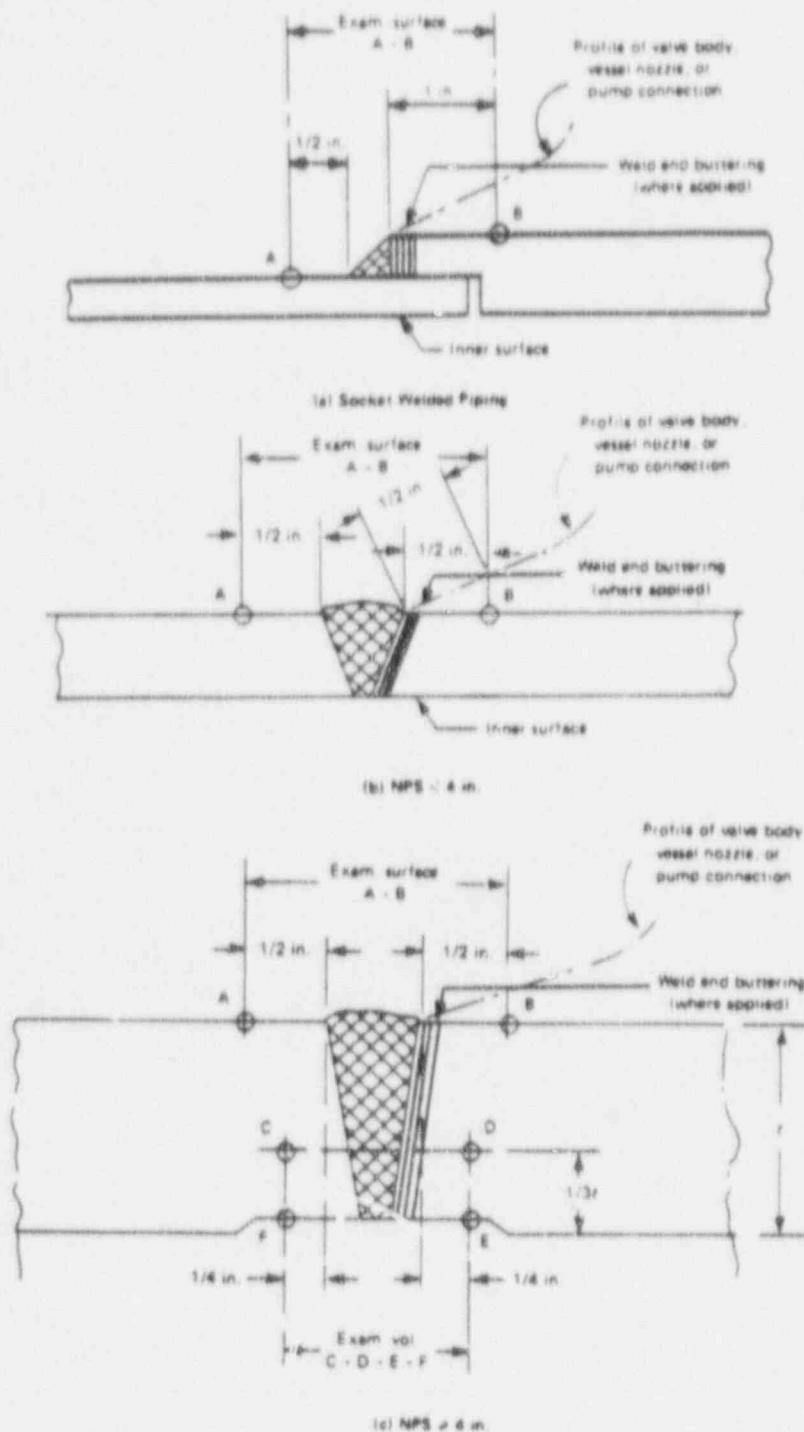



Figure 001-5

Class 1  
Similar and Dissimilar Metal Welds in Components and Piping  
and Socket Welds

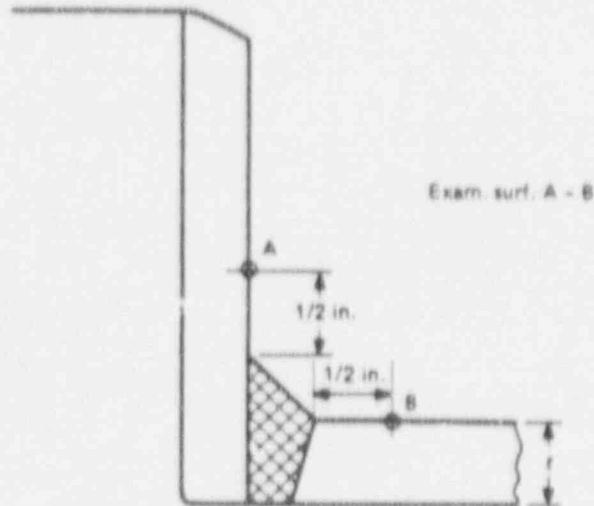
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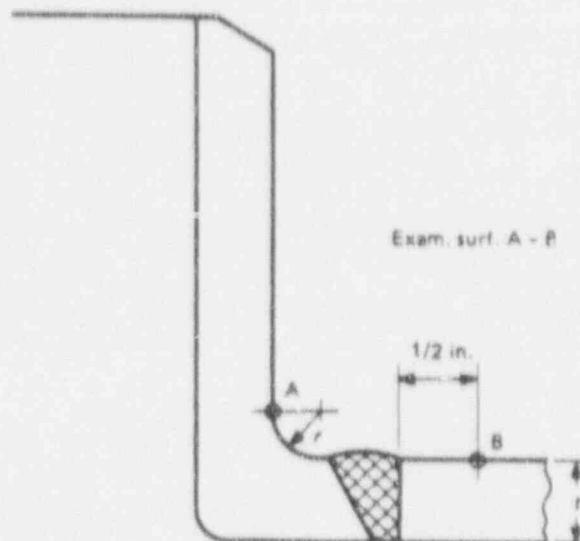
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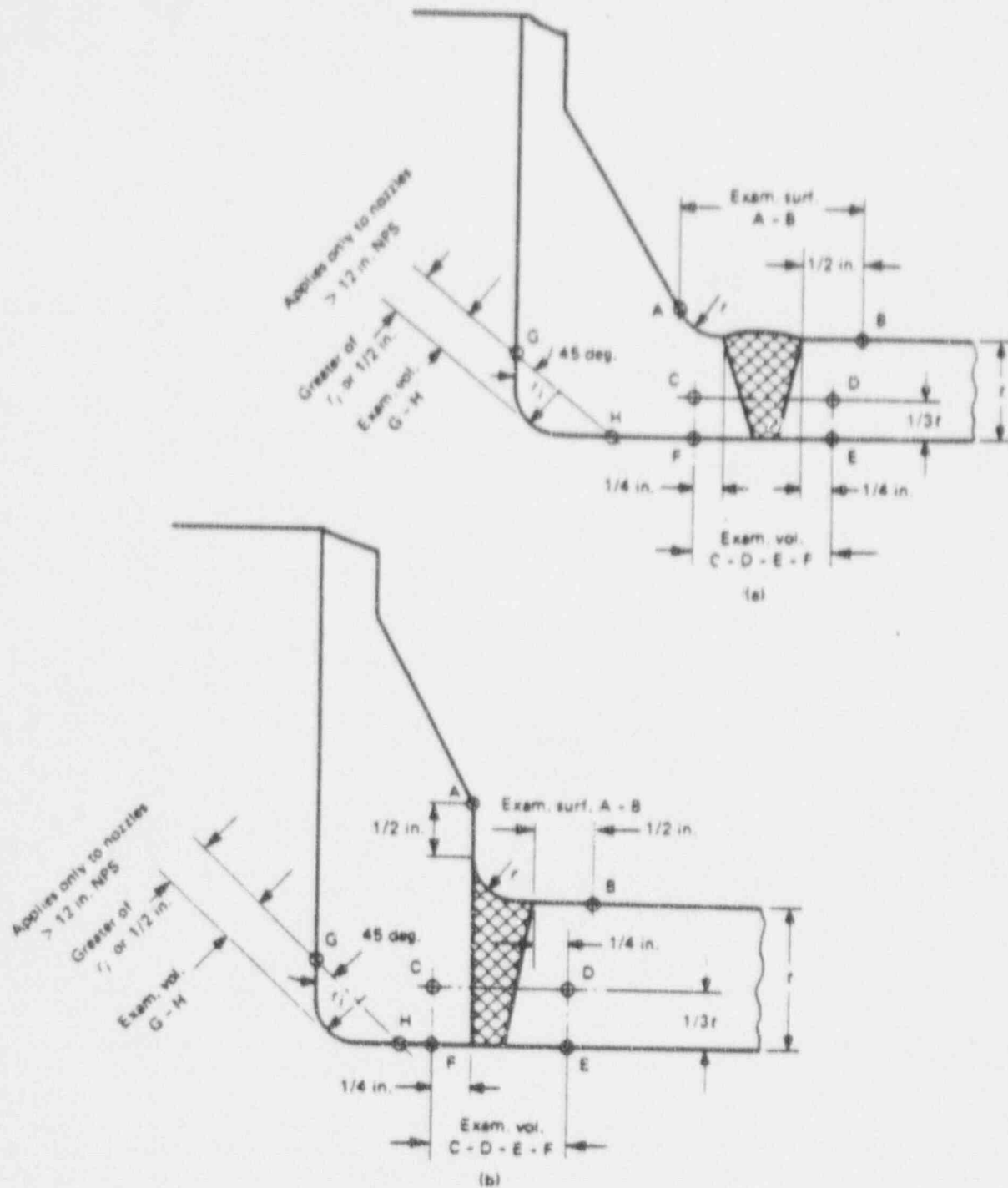
(a)



(b)

GENERAL NOTE:  
Nozzle sizes over 4 in. NPS; vessel thickness  $t \leq 1/2$  in.


Figure 001-6  
Class 2  
Nozzle-to-Vessel Welds



GENERAL NOTE: Nozzle sizes over 4 in. NPS; vessel thickness over 1/2 in.

Figure 001-7  
Class 2  
Nozzle-to-Vessel Welds

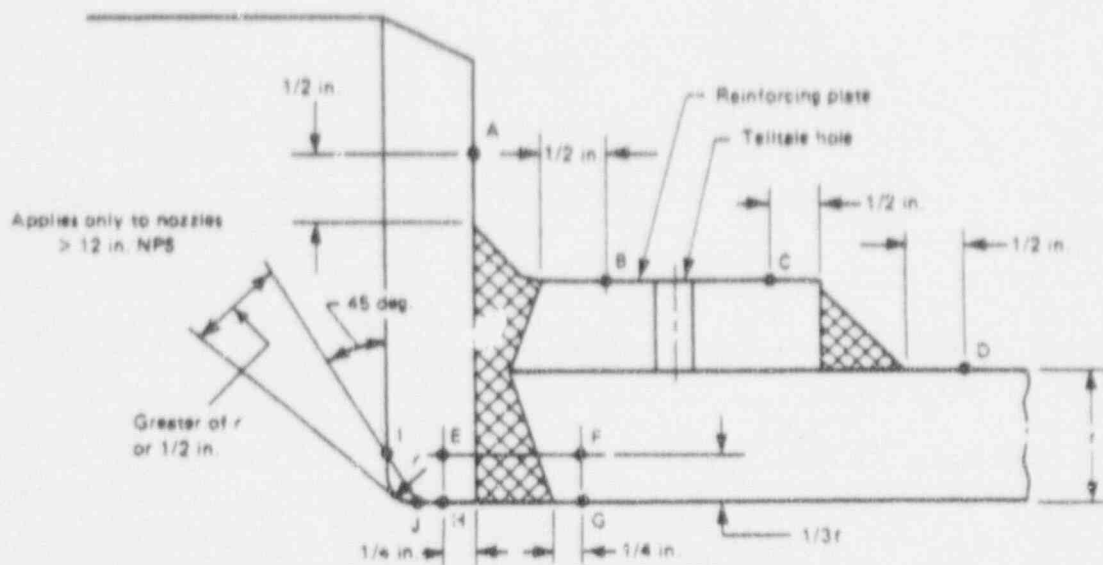
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(c)

Figure 001-8  
Class 2  
Nozzle-to-Vessel welds

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Examination Surface A - B Around Branch Connection

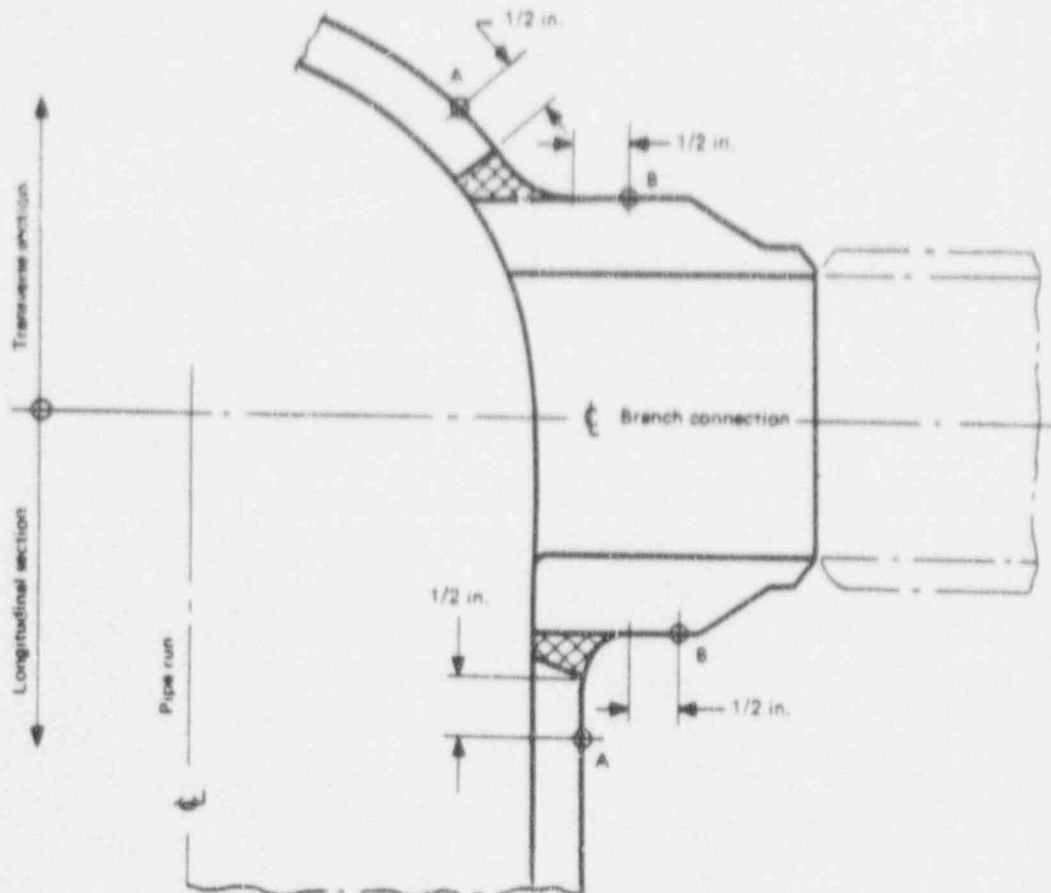



Figure 001-9  
Class 2  
Branch Connection Welds



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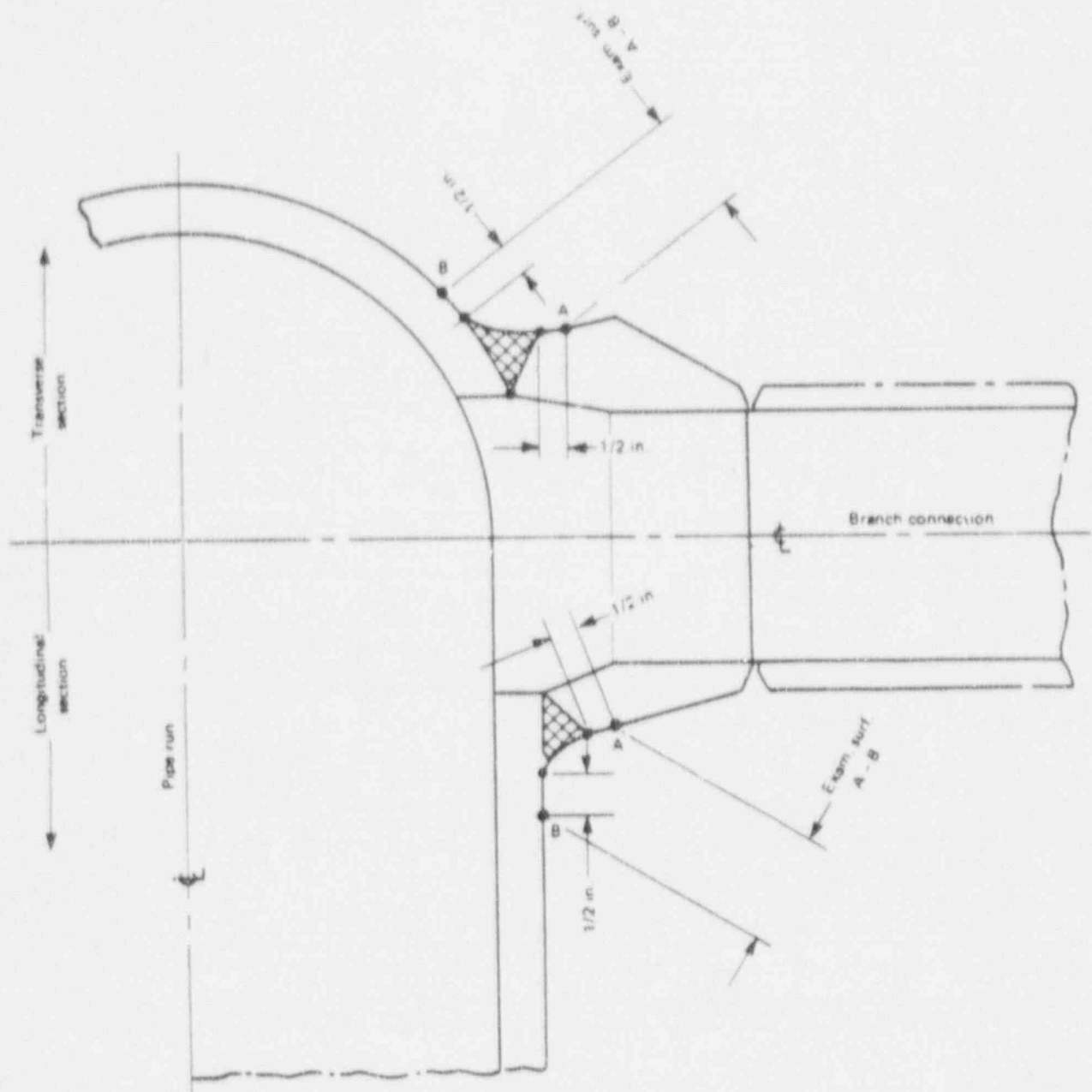



Figure 001-10  
Class 2  
Branch Connection Welds

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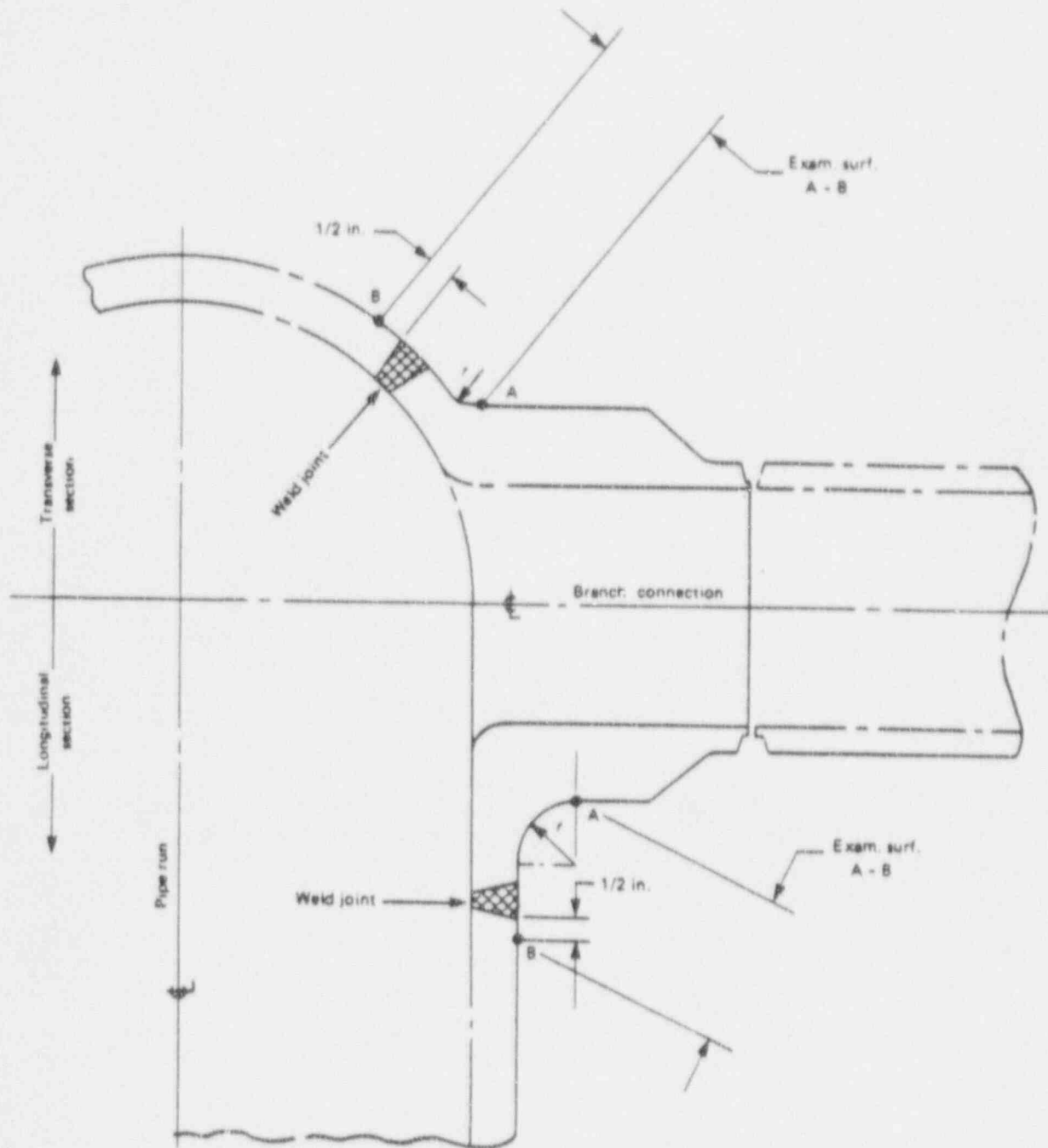


Figure 001-11  
Class 2  
Branch Connection Welds

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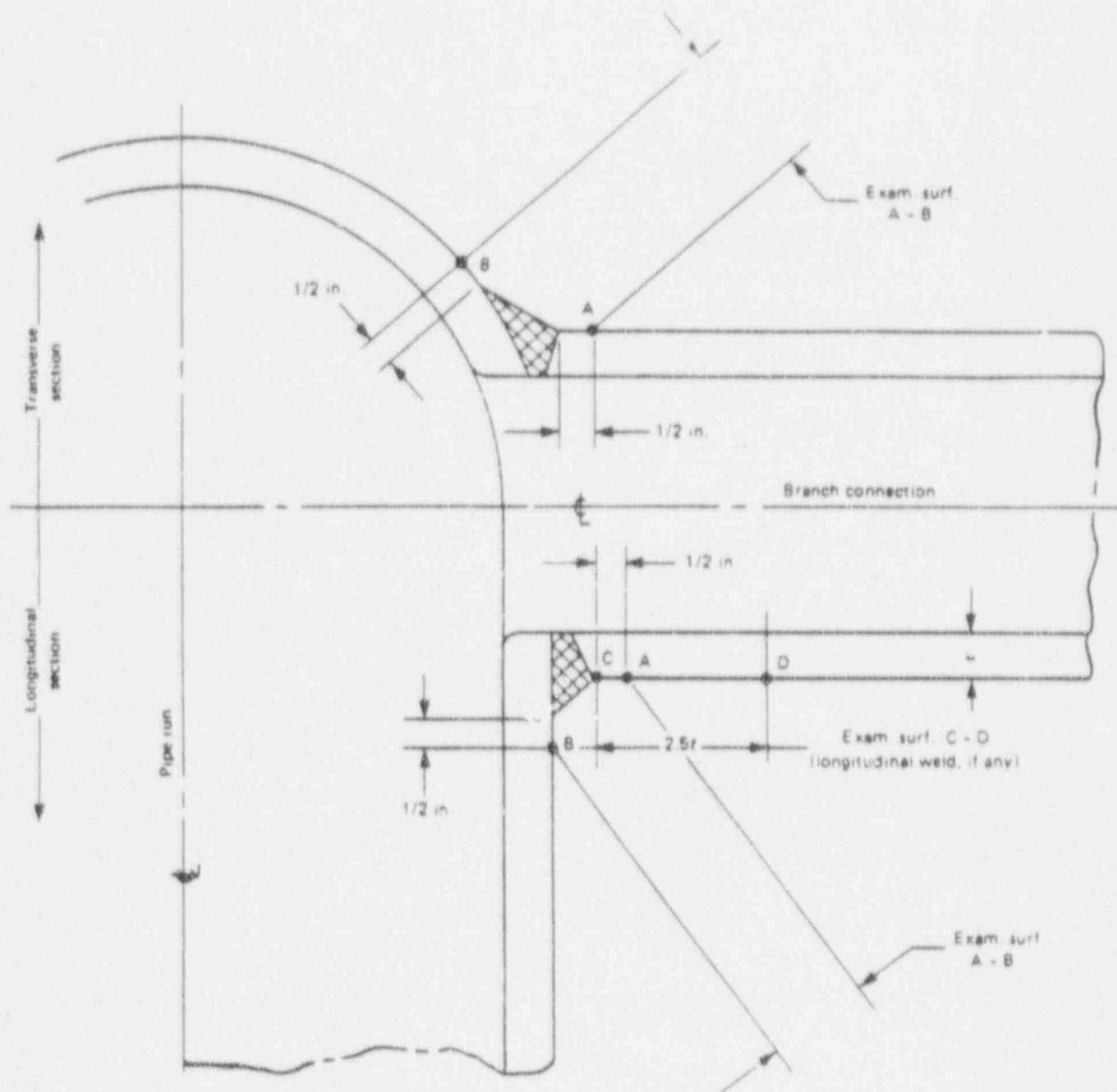


Figure 001-12  
Class 2  
Branch Connection Welds

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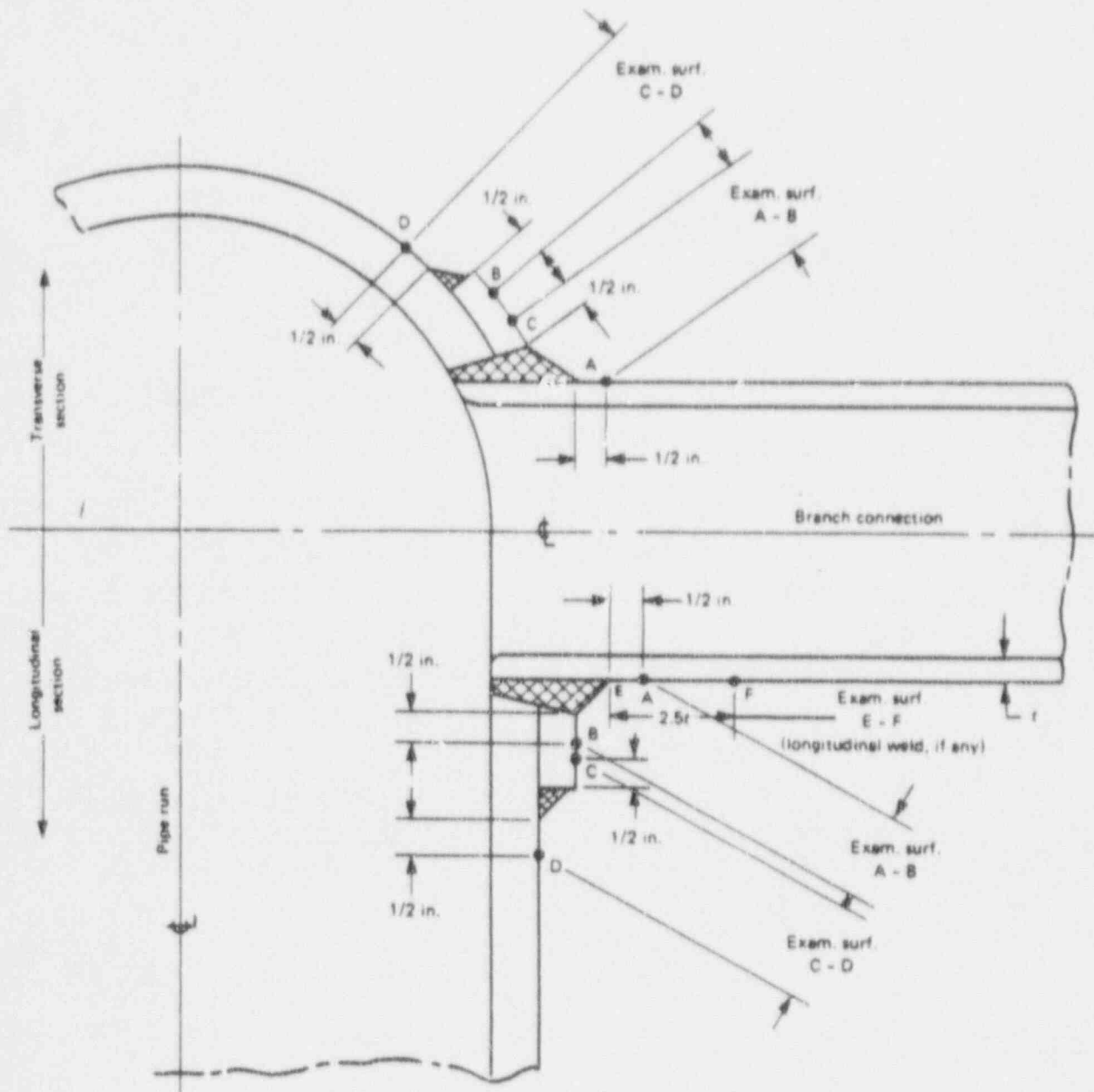



Figure 001-13  
Class 2  
Branch Connection Welds

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Surface Examination Record  
Farley Nuclear Plant

NDE Program Nuclear Generation Department  
NDE Form - 002

Alabama Power 

- ☐ Unit 1  
☐ Unit 2  
☐ Shared

TPNS Number

System/Component

Location

MWR

WA

SWD

Procedure/Revision

Transfer No./Ordering No.

Acceptance Standard

Description

Material Type: ☐ C/S ☐ S/S ☐ Other

Thermometer: Prep I.D.

Cal. Due Date

PT Materials

RTYPE: L1.07

Method: ☐ Color Contrast ☐ Fluorescent

Type

Batch No.

Cleaner

Penetrant

Developer

MT Equipment

RTYPE: L1.08

MT Yoke Type

S/N

Pole Spacing

MT Material

MT Powder Color

Batch No.

Item No.	Surface Temp.	Results			Remarks (Description, Exam Limitations, etc.)
		H <sub>2</sub>	H <sub>2</sub> S	A <sub>2</sub>	

Sketch

Corrective Action (Attach additional sheets if necessary)

Examiner

Level

Date

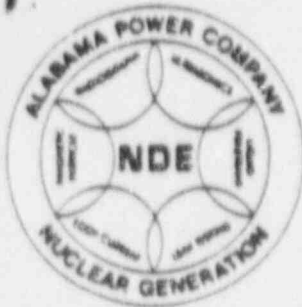
Time

Form 5-1.08 Rev. 11.08

FIGURE 001-14  
SURFACE EXAMINATION RECORD

Rev. 7





# NUCLEAR GENERATION NDE PROGRAM



FNP-O-M-024

TITLE Visual Examination VT-3		
PROCEDURE NDE-VT-003	REVISION NO. 1	EFFECTIVE DATE

Robert T. Davis 3/2/89  
Prepared By (NDE Level II)

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Approved By (NDE Level II)


Robert A. Bennett 3/8/89  
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INDEX OF EFFECTIVE PAGES

[illegible]

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### 1.0 PURPOSE

This procedure delineates the requirements for performing visual examinations (VT) and for recording the test results in accordance with applicable American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Codes.

### 2.0 SCOPE

This procedure defines the requirements for VT-3 visual examination to determine general mechanical and structural conditions of components and their supports. It also includes the examination of snubbers, constant load and spring type supports for conditions that could affect operability or functional adequacy.

### 3.0 APPLICABLE DOCUMENT

This procedure is written to comply with the requirements of the following documents to the extent specified within this procedure.

1. ASME Boiler and Pressure Vessel Code, Section XI, 1983 Edition with Addenda through Summer 1983, "Rules for Inservice Inspection of Nuclear Power Plant Components" as modified by Second Ten-Year Inservice Inspection Program Relief Request FNP-1, RR-12.

### 4.0 RESPONSIBILITY

An NDE Level III Examiner certified in visual examination is responsible for developing and approving visual examination procedures and techniques. The Manager Performance and Planning or his designee is responsible for the satisfactory implementation of the NDE Program, including this procedure.

### 5.0 QUALIFICATION OF VISUAL EXAMINATION PERSONNEL

- 5.1 All Alabama Power Company examiners performing visual examinations per this procedure shall be qualified and certified in accordance with the requirements of the Alabama Power Company Nuclear Generation Department NDE Training, Qualification and Certification Procedure NDE-001.
- 5.2 All contractor personnel performing visual examinations under the FNP-OQA Program shall be qualified and certified in accordance with their employer's written practice, which has been reviewed and approved by Alabama Power Company per Section 7.0 of FNP-O-AP-31.

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## 6.0 EQUIPMENT

Steel rulers, mirrors, borescopes, TV cameras or any other supplemental equipment deemed necessary by the examiner may be used to perform this examination.

## 7.0 SURFACE PREPARATION


- 7.1 The required insulation or lagging shall be removed from the surface to be examined.
- 7.2 The surface shall be examined in the as-found condition. If further surface preparation is required, it shall be performed under controls established by the plant staff.

## 8.0 EXAMINATION AREAS

- 8.1 Component support examination shall include supports that extend from piping, valves, and pump attachments up to and including the attachment to the supporting structure. Note: Where the mechanical connection of a nonintegral support is buried within the component insulation, the support boundary may extend from the surface of the component insulation provided the support either carries the weight of the component or serves as a structural restraint in compression.
- 8.2 Valve bodies exceeding 4-inch nominal pipe size shall include the normally accessible internal pressure boundary surfaces. The stem disk, seat internal pilot valve and rings (where applicable), stem-to-disk connection, and packing shall be visually examined for mechanical damage. In addition the valve bowl, seat disk, and stem shall be examined for evidence of metallurgical damage such as erosion, corrosion, cracking, gouging, or pitting.
- 8.3 The normally accessible pump casings and internal pressure boundary surfaces shall be examined for signs of distress. Examine the accessible interior surfaces, the pump bowl, and the pump impeller for evidence of cracking erosion, galling, mechanical damage, or other abnormal conditions.
- 8.4 Weld areas of support components to be examined shall include the weld and adjacent base metal for at least one wall thickness beyond the edge of the weld.



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## 9.0 EXAMINATION PROCEDURE

- 9.1 Examinations may be performed either remotely with optical aids or directly as access will allow.
- 9.2 Direct visual examination may be made when access is sufficient to place the eye within 24 inches and at an angle of not less than 30° to the surface to be examined. Mirrors and magnifying lenses may be used to improve the angle of vision and resolution. Lighting, natural or artificial, sufficient to illuminate the area to be examined is required. Resolution shall be considered adequate when the combination of lighting, access, and angles of vision can resolve a fine black line 1/32 of an inch wide on an 18-percent neutral gray card placed on the surface to be examined. As an alternate, the 1/32 inch divisions on a steel scale are considered equivalent for use in accordance with the procedure.
- 9.3 Remote visual examination may be substituted for direct visual examination where access does not permit direct visual examination. Remote visual examination may include visual aids such as telescopes, periscopes, borescopes, fiberoptics, or TV cameras and monitoring systems, with or without attachments for permanent recording. Mirrors, moveable lights or rotating optics, or any combination thereof, may be employed. Where practical, such systems shall have a resolution capability at least equivalent to that obtainable by direct visual observation.

## 10.0 EVALUATION OF INDICATIONS

- 10.1 The VT-3 examination shall be conducted to determine the mechanical and structural condition of components and their supports.

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10.1.1 For pump casing and valve bodies, the following guidelines may be used for implementing the above criteria:

- 1) Corrosion or erosion that reduces the pressure retaining wall thickness by more than 10%.
- 2) Wear of mating surfaces that may lead to loss of function or leakage.
- 3) Crack-like surface flaws developed in service or grown in size beyond that recorded during preservice examination.

10.1.2 The following relevant indications shall be recorded when performing examinations of welds, supports and integral attachments.

- 1) Deformation or structural degradation of fasteners, springs, clamps or other support items.
- 2) Missing, detached, or loosened support items.
- 3) Arc strikes, weld spatter, paint scoring, roughness, or general corrosion on close tolerance machined or sliding surfaces.
- 4) Improper hot or cold positions (snubbers and spring supports).
- 5) Any crack or linear indication.
- 6) Fluid loss or lack of fluid induction (hydraulic snubber only).

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10.1.3 The following conditions are considered non-relevant and shall be reported at the discretion of the examiner.

- 1) Fabrication marks (e.g., from punching, machining, rolling, etc.)
- 2) Chipped or discolored paint.
- 3) Weld spatter on other than close tolerance machined or sliding surfaces.
- 4) Scratches and surface abrasion marks.
- 5) Roughness or general corrosion which does not reduce the load bearing capacity of the support.

10.2 Parts, components, or surfaces whose visual examination reveals flaw indications shall be unacceptable for continued service unless, following verification of the indications by a supplemental examination, the appropriate acceptance requirements are satisfied.

#### 11.0 DEFECT REMOVAL AND REPAIR


- 11.1 Unacceptable indications shall be removed by mechanical methods or repaired to the extent necessary to meet the acceptance standards.
- 11.2 As an alternative to the repair requirement, a component or the portion of the component containing the flaw shall be replaced.
- 11.3 Completed repairs shall be re-examined in accordance with this procedure and other methods, as required.

#### 12.0 VISUAL EXAMINATION RECORD

A Visual Examination Record (Figure 1), Support Examination Record (Figure 2) or equivalent form, and when necessary Visual Examination Supplemental Data Sheet (Figure 3), shall be used to document the examination results, and any applicable information. A copy of the Visual Examination Record shall be maintained with the Maintenance Work Request, Shop Work Order or other document as appropriate and retained on file with Farley Nuclear Plant Document Control as a permanent record.

0133L/VT-3

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RT TYPE 1.1.20		Visual Examination Record		VT-1, VT-3		Alabama Power	
Personnel		User Name/Signature/Access No.		Isometric Drawing Number		Sheet No.	
PHOTOS		RESOLUTION		TYP. EXAMINATION		SAFETY / NUC. / BOND	
<input type="checkbox"/> YES <input type="checkbox"/> 8 x 11 <input type="checkbox"/> COLOR <input type="checkbox"/> NO <input type="checkbox"/> 4 x 6 <input type="checkbox"/> B&W		<input type="checkbox"/> 100" DIAMETER (FEET) <input type="checkbox"/> 100" LINE (FEET) CIRCUMFERENCE		<input type="checkbox"/> VT-1 <input type="checkbox"/> VT-3		Procedure No. Revision No. Date (Month-Day-Year)	
TECHNIQUE		EQUIPMENT		LIGHTING		TOOLS	
<input type="checkbox"/> DIRECT <input type="checkbox"/> REFLECT <input type="checkbox"/> VIDEO		<input type="checkbox"/> VISION <input type="checkbox"/> MULTIVIEW <input type="checkbox"/> CCTV OTHER:		<input type="checkbox"/> AMBIENT <input type="checkbox"/> FLUORESCENT <input type="checkbox"/> SUPERLUZ		<input type="checkbox"/> SCALE <input type="checkbox"/> MICROSCOPE <input type="checkbox"/> COMPASS <input type="checkbox"/> LEVEL <input type="checkbox"/> COINTEGRATOR <input type="checkbox"/> WELD GAUGE	
ITEM INSPECTED FOR							
<input type="checkbox"/> WELDING & BASE MATERIAL VT-1 BROKEN & BASE MATERIAL UNDERCUTS CORROSION BUILD UP ROUGHNESS EVIDENCE OF LEAKAGE ARC STROKES OTHER CRACKS		<input type="checkbox"/> COMP. THERMITS & MAT. SURF. VT-3 PITTING CORROSION EVIDENCE POROUS MATERIAL REINFORCED PARTS CRACKS EVIDENCE OF LEAKAGE OTHER CRACKS		<input type="checkbox"/> ROLLS, STUDS, AND WASHERS VT-1 LOOSE WELDING CRACKS CORROSION ROUGHNESS THERMAL DAMAGE DEFORMATION FROM PROTECTIVE COATING EVIDENCE OF LEAKAGE OTHER		<input type="checkbox"/> HANDLING & SUPPORTS VT-3 WELDING CRACKS CORROSION EVIDENCE POROUS MATERIAL REINFORCED PARTS CRACKS EVIDENCE OF LEAKAGE OTHER CRACKS	
<input type="checkbox"/> SAMPLERS VT-3 LOOSE ROLLS OR FIB. CONNECTIONS SHARP BEAL PLATE LEAKAGE PLATE TUBING CONNECTION SHARP COLLAPSE PHYSICAL DAMAGE CORROSION & CRACKS FROM CONTACT OTHER		<input type="checkbox"/> WELDING & SUPPORTS VT-3 WELDING CRACKS CORROSION EVIDENCE POROUS MATERIAL REINFORCED PARTS CRACKS EVIDENCE OF LEAKAGE OTHER CRACKS		<input type="checkbox"/> ROLLS, STUDS, AND WASHERS VT-1 LOOSE WELDING CRACKS CORROSION ROUGHNESS THERMAL DAMAGE DEFORMATION FROM PROTECTIVE COATING EVIDENCE OF LEAKAGE OTHER		<input type="checkbox"/> HANDLING & SUPPORTS VT-3 WELDING CRACKS CORROSION EVIDENCE POROUS MATERIAL REINFORCED PARTS CRACKS EVIDENCE OF LEAKAGE OTHER CRACKS	
PROVIDE DETAILS ON UNSAT. AREAS BY LINE OF SUPPLEMENTAL DATA SHEET PROVIDE DETAILS ON OTHER AREAS EXAMINED							
COMMENTS							

FIGURE 1  
VISUAL EXAMINATION RECORD

NDE PROGRAM  
Nuclear Generation Department

Alabama Power 


PROCEDURE  
NDE-VT-003

PAGE  
8

REVISION  
1

RTYPE L1.00

Support Examination Record VT-3

Alabama Power 

Plant/Unit	System/Examination Number	WVH / WAT / EWO	Draw Number
Hangar Type	Type Examination/Technique	Procedure	Rev
Examiner	Level	Resolution	Task
Examiner	Level	1/32" Division (Scale)	1/32" Line (Gray Card)

ACCEPTABLE UNACCEPTABLE SKETCH (if applicable)

EXAMINATION LIST:

Deformation or structural degradation of fasteners, springs, clamps, or other support items

Missing, detached, or loosened support items

Arc strikes, weld spatter, paint scoring, roughness, or general corrosion on close tolerance machined or sliding surfaces

Improper hot or cold positions

Any crack or linear indication

Fluid loss or leak of fluid induction (hydraulic snubber only)

Other conditions

Comments


Form 5-0000 Rev 1/02

FIGURE 2  
SUPPORT EXAMINATION RECORD

Rev. 7



NDE PROGRAM  
Nuclear Generation Department

Alabama Power 

PROCEDURE  
NDE-VT-003

PAGE 9

REVISION	1
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[illegible]

FIGURE 3  
VISUAL EXAMINATION SUPPLEMENTAL SHEET

NO EXAMINATIONS THIS OUTAGE

## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

As Required By The Provisions Of The ASME Code Section XI

		Job Number B13-MWR219883	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1	Date May 17, 1991
3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A	Authorisation Number N/A
		Expiration Date N/A	

## 4. Identification Of System

Reactor Coolant System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

## 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)
Bonnet	Velan	2825	N/A	Valve TPNS Q1B13V027A	1973	Replaced	No
Stem	Velan	815	N/A	Valve TPNS Q1B13V027A	1973	Replaced	No
Bonnet	Velan	7777	N/A	P.O. QP-5641	1990	Replacement	Yes
Stem	Velan	2ABX	N/A	P.O. QP-4393	1989	Replacement	No

## 7. Description Of Work

Installed new bonnet and stem in valve Q1B13V027A due to damage discovered during implementation of PCN B90-1-6583.  
 Ref: MIF's 91 043814 and 91 043836.

## 8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
 PSI Test Temp \_\_\_\_\_ °F.

Job Number

B13-MWR219883

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The VT-2 examination for this replacement was performed under MWR 232488.

## 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

Mac McInt  
Owner or Owner's Designee, TitleDate June 28, 19 91

## 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 GEORGIA and Employed by ARMSTRONG MUTUAL Insurance Co of NORFOLK, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/16/91 to 7/16/91, 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.

\* Factory Mutual SystemCharles J. Ward  
Inspector's SignatureCommissions GA-00328

National Board, State, Province, and Endorsements

Date 7/16 1991

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number B13-MWK220896		Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1  Date May 17, 1991
3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A

4. Identification Of System

Reactor Coolant System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Stem	Velan	S/N 522	N/A	Valve TPWS Q1B13V027B	1973	Replaced	No
Stem	Velan	S/N W53	N/A	P.O. QP-0163	1985	Replacement	No

7. Description Of Work

Installed new stem in valve Q1B13V027B to replace broken stem. Ref: MIF 91 048771.

8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
PSI Test Temp    °F.



Job Number

B13-MWR220896

Sheet 2 of 2

9. Remarks (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/ASigned Mac Main FNP Date June 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/27/91 to 6/27/91 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 APPROVED SIGNATURE

Charles E. Wood  
Inspector's Signature

Commissions GA-00328  
National Board, State, Province, and Endorsements

Date 6/27 19 91

## RType: 21.52

Sheet 1 of 2

1011

FNP 1

April 6, 1991

Type Code Symbol Stamp

N/A

Authorization Number

474

Expiration Date

NA

Reactor Coolant System

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

[illegible]

☐ Hydrostatic Pressure   
 ☐ Pneumatic   
 ☐ Nominal Operating Pressure   
 ☒ None   
 ☐ Other  
 PSI    Test Temp

Job Number

B13-MWR230657

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SS-2744:

Load stud - MIF 91 043327

Load stud nut (2 each) - MIF 91 043327

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M. Thomas Mar McInt Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT MARINE INSURANCE CO\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/13/91 to 6/18/91, 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 person's injury or property damage or a loss of any kind arising from or connected with this inspection.

\*FACTORY ACTUAL SYSTEM

Charles E. Ward  
Inspector's Signature

Commissions GA-00328

National Board, State, Province, and Endorsements

Date 6/13 19 91

## 3Type: L1.52

Sheet 1 of 2

Unit 1

END 1

April 11, 1991

Type Code Symbol Stamp

444

Authorisation Number

N/A

Expiration Date

N/A

Reactor Coolant System

(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda N/A Code Case     

[illegible]

Pipe Hanger	Daniel Const. Co.	Mark No.	RC-27	N/A	Component No.	H1256	1986	Repaired	No
-------------	-------------------	----------	-------	-----	---------------	-------	------	----------	----

Snubber RC-R7A was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other ☐  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_

Job Number

B13-MWR237837

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RC-R7A:

Pivot pin - MIF 91 043323

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 [Signature] Mac Mont FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by SEABRIGHT MUTUAL Insurance Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/7/91 to 6/17/91, 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 SYSTEM

[Signature] Commissions GA-00328  
Inspector's Signature National Board, State, Provinces, and Endorsements

Date 6/7 1991



## RType: L1.52

Job Number

Sheet 1 of 2

1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

Unit

FNP 1

Date \_\_\_\_\_

April 9, 1991

### 3. Work Performed By

Type Code Symbol Stamp

Name: Alabama Power Company Maintenance Department

NA

Authorization Number

N/A

Address: Joseph M. Farley Nuclear Plant

Expiration Date

N/A

#### 4. Identification Of System

Reactor Coolant System

5.

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Pipe Hanger	Daniel Const. Co.	Mark No. RC-R10	N/A	Component No. H1259	1989	Repaired	No

## 7. Description Of Work

Snubber RC-R10 was removed from support by Fluor Constructors, tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other ☐  
Pressure ☐ PSI Test Temp ☐

Job Number

B13-MWR237840

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RC-B10:

Load stud - MIF 91 043189

Load stud nut - MIF 91 043189

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 H.R. York for Ian Thomas Date 7/8 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMWRIGHT MUTUAL INSURANCE Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/9/91 to 7/9/91 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 SYSTEM

Inspector's Signature Charles E. Ward Commissions GA-00328  
National Board, State, Province, and EndorsementsDate 7/9 19 91

## RType: L1.52

Form 6-3976 3/88

Job Number

B13-MWR237849

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RC-R74:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 APK Mgr Maint FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORIAL MUTUAL INSURANCE Co.\* of NORFOLK, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/6/91 to 6/6/91, 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 SYSTEM

Charles G. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/6 1991

## KType: L1.52

Job Number

Sheet 1 of 2

## 2. Plant

Unit 10

END 1

Date \_\_\_\_\_

March 30, 1991

Type Code Symbol Stamp

N/A

Authorization Number

N/A

Expiration Date

N/A

#### 4. Identification Of System

Reactor Coolant System

8

(a) Applicable Construction Code: See Sheet 2, 19 83 Edition Summer 83 Addenda N/A Code Case 100

8. Identification Of Components Repaired Or Replaced and Replacement Components:

Name Of Component	Name Of Manufacturer	Manufacturer Serial No.	National Board No.	Other Certification	Year Built	Repaired Replaced Or Replacement	ASME Code Stamped (Yes or No)
Pipe Hanger	Daniel Const. Co.	Mark No. RC-E77X	N/A	Component No. H1291	1986	Repaired	No

## 7. Description Of Work

Snubber RC-R77X was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### B. Tests Conducted

Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other \_\_\_\_\_  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F



Job Number

B13-MWR237851

Sheet 2 of 2

## D. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RC-R77A:

Cylinder - MIF 91 040803

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 *J. J. Shaw* *Mr. McInt, FND* Date *May 20*, 19*91*  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of BEIGELA and Employed by PRUDENTIAL MUTUAL INSURANCE CO\* of NEWARK, NEW JERSEY have inspected the components described in this Owner's Report during the period 6/6/91 to 6/6/91, 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.

\*FACILITY MUTUAL SYSTEM

*Charles E. Wood*  
Inspector's Signature

Commissions 6A-00328  
National Board, State, Province, and Endorsements

Date 6/6 1991

# Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number B13 PCN 5259		Sheet 1 of 8
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date 4/24/91

3. Work Performed By Name: APCo Plant Modifications Address: Highway 95 South, Columbia, AL 36319	Type Code Symbol Stamp NA Authorization Number NA Expiration Date NA
---	---

4. Identification Of System  
Reactor Coolant System

5. (a) Applicable Construction Code: ASME III, 19 71 Edition SUM 71 Addenda NA Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition SUM 83 Addenda NA Code Case  
Supports designed to AISC 1969 and fabricated to AWS requirements.

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	Velan	264	NA	Q1B13V005A	1973	Replaced	Yes
*Valve	Velan	293	NA	Q1B13V005B	1973	Replaced	Yes
*Valve	Velan	99	NA	Q1B13V005C	1973	Replaced	Yes
Valve	Kerotest	S7-11	NA	Q1B13V004A	1973	Replaced	Yes
Valve	Kerotest	S7-14	NA	Q1B13V004B	1973	Replaced	Yes
Valve	Kerotest	S7-16	NA	Q1B13V004C	1973	Replaced	Yes
Valve	Kerotest	S7-1	NA	Q1B13V006A	1973	Replaced	Yes
Valve	Kerotest	S7-7	NA	Q1B13V006B	1973	Replaced	Yes
Valve	Kerotest	S7-9	NA	Q1B13V006C	1973	Replaced	Yes
*Valve	Velan	116	NA	Q1B13V044A	1973	Replaced	Yes
*Valve	Velan	263	NA	Q1B13V044B	1973	Replaced	Yes
*Valve	Velan	119	NA	Q1B13V044C	1973	Replaced	Yes
Valve	Kerotest	S7-20	NA	Q1B13V047A	1973	Replaced	Yes
Valve	Kerotest	S8-7	NA	Q1B13V047B	1973	Replaced	Yes
Valve	Kerotest	S8-14	NA	Q1B13V047C	1973	Replaced	Yes

7. Description Of Work  
\*These valves were manufactured to the 1968 edition of the draft ASME code for pumps and valves for nuclear power.

See sheet 7.

8. Tests Conducted  
☒ Hydrostatic Pressure 2380 PSI  
☐ Pneumatic  
☐ Nominal Operating Pressure  
☐ None  
☐ Other  
 Test Temp 547 °F

**Form NIS-2 Owner's Report For Repairs Or Replacements**  
Supplemental Sheet

RType: L1.52

		Job Number <b>B13 PCN 5259</b>	Sheet <b>2</b> of <b>8</b>
1. Owner <b>Alabama Power Company 600 North 18th Street Birmingham, AL 35291</b>	2. Plant <b>Farley Nuclear Plant Highway 95 South Columbia, AL 36319</b>	Unit <b>FNP 1</b>	
		Date <b>4/24/91</b>	
3. Work Performed By Name: <b>APCo Plant Modifications</b> Address: <b>Highway 95 South, Columbia, AL 36319</b>		Type Code Symbol Stamp <b>NA</b> Authorization Number <b>NA</b> Expiration Date <b>NA</b>	
4. Identification Of System <b>Reactor Coolant System</b>			
5. (a) Applicable Construction Code: <b>ASME III</b> , 19 <b>71</b> Edition <b>SUM 71</b> Addenda <b>NA</b> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <b>83</b> Edition <b>SUM 83</b> Addenda <b>NA</b> Code Case <b>Supports designed to AISC 1969 and fabricated to AWS requirements.</b>			
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	Kerotest	CE6-9	NA	Q1B13V049A	1974	Replaced	Yes
Valve	Kerotest	CE6-13	NA	Q1B13V049B	1974	Replaced	Yes
Valve	Kerotest	CE6-15	NA	Q1B13V049C	1974	Replaced	Yes
Valve	Kerotest	S9-16	NA	Q1B13V043A	1973	Replaced	Yes
Valve	Kerotest	CE6-3	NA	Q1B13V043B	1974	Replaced	Yes
Valve	Kerotest	CE6-8	NA	Q1B13V043C	1974	Replaced	Yes
Manifold	Lamco	054	NA	Q1B13F001A	1972	Replaced	Yes
Manifold	Lamco	055	NA	Q1B13F001B	1972	Replaced	Yes
Manifold	Lamco	056	NA	Q1B13F001C	1972	Replaced	Yes
Manifold	Lamco	057	NA	Q1B13F001D	1972	Replaced	Yes
Manifold	Lamco	058	NA	Q1B13F001E	1972	Replaced	Yes
Manifold	Lamco	059	NA	Q1B13F001F	1972	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-13-E1423	1977	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-14-E1422	1977	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-19-EG685	1977	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-13-E1427	1977	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-14-E1421	1977	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-19-EG687	1977	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-13-E1429	1977	Replaced	Yes

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

Job Number B13 PCN 5259		Sheet 3 of 8
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP Date 4/24/91
3. Work Performed By Name: APCo Plant Modifications Address: Highway 95 South, Columbia, AL 36319		Type Code Symbol Stamp NA Authorization Number NA Expiration Date NA

4. Identification Of System  
Reactor Coolant System

5. (a) Applicable Construction Code: ASME III, 19 71 Edition: SUM 71 Addenda: NA Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition: SUM 83 Addenda: NA Code Case  
Supports designed to AISC 1969 and fabricated to AWS requirements.

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)
Piping	Daniel Const.	B13	NA	B13 CCA-14-E1435	1977	Replaced	Yes
Piping	Daniel Const.	B13	NA	B13 CCA-19-EG686	1977	Replaced	Yes
Support	Daniel Const.	NA	NA	RTD-R66	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R67	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R242	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R243	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R65	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R241	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R61	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R60	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R59	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R57	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R58	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R55	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R56	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R53	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R54	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R244	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R51	1977	Replaced	No



**Form NIS-2 Owner's Report For Repairs Or Replacements**  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319		Job Number B13 PCN 5259	Sheet 4 of 8
				Unit FNP 1	
				Date 4/24/91	

3. Work Performed By Name: <u>APCo Plant Modifications</u> Address: <u>Highway 95 South, Columbia, AL 36319</u>	Type Code Symbol Stamp NA Authorization Number NA Expiration Date NA
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4. Identification Of System  
Reactor Coolant System

5. (a) Applicable Construction Code: ASME III, 19 71 Edition SUM 71 Addenda NA Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition SUM 83 Addenda NA Code Case  
Supports designed to AISC 1969 and fabricated to AWS requirements.

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)
Support	Daniel Const.	NA	NA	RTD-R52	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R48	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R245	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R47	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R50	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R45	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R46	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R7	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-H15	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R12	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R13	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R14	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R10	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R11	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R9	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R8	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R6	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R5	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R4	1977	Replaced	No



## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

Supplemental Sheet

1. Owner <b>Alabama Power Company 600 North 18th Street Birmingham, AL 35291</b>		2. Plant <b>Farley Nuclear Plant Highway 95 South Columbia, AL 36319</b>		Job Number <b>B13 PCN 5259</b>	Sheet <b>5</b> of <b>8</b>
				Unit <b>FNP 1</b>	
				Date <b>4/24/91</b>	
3. Work Performed By Name: <b>APCo Plant Modifications</b> Address: <b>Highway 95 South, Columbia, AL 36319</b>				Type Code Symbol Stamp <b>NA</b>	
				Authorization Number <b>NA</b>	
				Expiration Date <b>NA</b>	

## 4. Identification Of System

Reactor Coolant System

5. (a) Applicable Construction Code: ASME III, 19 71 Edition, SUM 71 Addenda, NA Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition, SUM 83 Addenda, NA Code Case  
Supports designed to AISC 1969 and fabricated to AWS requirements.

## 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)
Support	Daniel Const.	NA	NA	RTD-R3	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R2	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R1	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R16	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R17	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R18	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R19	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R20	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R21	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R250	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R251	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R41	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R43	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R42	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R44	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R40	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R39	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R38	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R37	1977	Replaced	No

**Form NIS-2 Owner's Report For Repairs Or Replacements**  
Supplemental Sheet

RType: L1.52

Job Number B13 PCN 5259		Sheet 6 of 8
1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291	2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	Unit FNP 1 Date 4/24/91

3. Work Performed By Name: <u>APCo Plant Modifications</u> Address: <u>Highway 95 South, Columbia, AL 36319</u>	Type Code Symbol Stamp NA Authorization Number NA Expiration Date NA
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4. Identification Of System  
**Reactor Coolant System**

5. (a) Applicable Construction Code: ASME III, 19 71 Edition SUM 71 Addenda NA Code Case  
(b) Applicable Section Utilized For Repairs Or Replacements, 19 83 Edition SUM 83 Addenda NA Code Case  
**Supports designed to AISC 1969 and fabricated to AWS requirements.**

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)
Support	Daniel Const.	NA	NA	RTD-R36	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R35	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R34	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R33	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R31	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R30	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R29	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R26	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R24	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R25	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R22	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R27	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R28	1977	Replaced	No
Support	Daniel Const.	NA	NA	RTD-R32	1977	Replaced	No

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

Job Number B13 PCN 5259		Sheet 7 of 8
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1 Date 4/24/91
3. Work Performed By Name: APCo Plant Modifications Address: Highway 95 South, Columbia, AL 36319		Type Code Symbol Stamp NA Authorization Number NA Expiration Date NA
4. Identification Of System Reactor Coolant System		
5. (a) Applicable Construction Code: ASME III 19 71 Edition: SUM 71 Addenda: NA Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 ____ Edition: ____ Addenda: ____ Code Case Supports designed to AISC 1969 and fabricated to AWS requirements.		

6. Description of work - continued from sheet 1 item 7.

A-Loop: Removed all existing RTD Bypass Piping and Components. Capped off the three, one inch, hot leg connections and the one, three inch, intermediate leg return connection on the loops. Installed three new penetrations in the hot leg approximately 39 inches down stream of the existing connections including bosses and thermowells. Remachined the existing two inch cold leg connection boss and installed a new thermowell.

B-Loop: Removed all existing RTD Bypass Piping and Components. Capped off the existing three inch intermediate leg return connection. Remachined the three existing one inch hot leg connections and the one existing two inch cold leg connection and installed new thermowells.

C-Loop: Removed all existing RTD Bypass Piping and Components. Capped off the existing three inch intermediate leg return connection. Remachined the three existing one inch hot leg connections and the one existing two inch cold leg connection and installed new thermowells.

Work performed per PCN B88-1-5259 and MWR 232045.

## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

Job Number

B13 PCN 5259

Sheet 8 of 8

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

See PCN B88-1-5259 issue history report and MWR 232045 for material issue

numbers and manufacturer serial numbers of replacement components and

filler metal information.

## 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 NACertificate of Authorization No. NAExpiration Date ----Signed RLWfor PMD ManagerDate 6/2119 91Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FAIRWRIGHT MUTUAL INSURANCE COMPANY \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 1/10/91 to 5/24/91 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.

\*FAIRWRIGHT MUTUAL SYSTEMCharles J. Ward  
Inspector's SignatureCommissions GA-00728National Board, State, Province, and EndorsementsDate 6/21 19 91

## RTyp: L1.52

## 6 Identification Of Components Required Or Replace 1 and Replacement Components

7. Description Of Work Replacement work was performed by plug removal and mechanical plugging as indicated on Attachment I. Row 1 tubes indicated in Attachment II were drilled out and returned to service. (See Remarks Section)

### B Tests Conducted

☐ Hydrostatic Pressure    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ Non-    ☐ Other



Job Number  
WA 104344

Sheet 2 of 13

9 Remarks (Applicable Manufacturer's Data Reports To Be Attached)

1) See FNP-1-ETP-4349 (OTC 910321-1) and the final report for S/G eddy current inspection for supporting documentation.

2) Nine (9) tubes had stabilizers installed in the hot leg side: R10C19, R8C23, R6C25, R6C28, R24C29, R24C30, R21C57, R13C64, R13C65.

## 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.

Type Code Symbol Stamp N/A

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

Signed Bernard J. Casey, Sys Perf Supv Date June 13, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, and the State or Province of GEORGIA and Employed by ARKWRIGHT MUTUAL INSURANCE COMPANY\* of WORWIND, MASSACHUSETTS, have inspected the components described in this Owner's Report during the period 7/6/91 to 7/25/91, 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 SYSTEM

Robert J. Ward Commissions SA-00328 I N  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7/25 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner: <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant: <b>Ferley Nuclear Plant</b> Highway 95 South Columbia, AL 38319	
		Job Number WA 104344	Sheet 3 of 13
		Line: FNP-1	
		Date: 6/10/91	

3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
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4. Identification Of System 1A Steam Generator
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5. (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case	(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case
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6. Identification Of Components Required Or Replaced and Replacement Components:

ATTACHMENT 1

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	04	Both	Plugged	Drilled	Mech. Plug
01	05	Both	Plugged	Drilled	Mech. Plug
01	15	Both	Plugged	Drilled	Mech. Plug
01	16	Both	Plugged	Drilled	Mech. Plug
01	24	Both	Plugged	Drilled	Mech. Plug
01	26	Both	Plugged	Drilled	Mech. Plug
01	34	Both	Plugged	Drilled	Mech. Plug
01	42	Both	Plugged	Drilled	Mech. Plug
01	44	Both	Plugged	Drilled	Mech. Plug
01	48	Both	Plugged	Drilled	Mech. Plug
01	50	Both	Plugged	Drilled	Mech. Plug
01	53	Both	Plugged	Drilled	Mech. Plug
01	55	Both	Plugged	Drilled	Mech. Plug
01	57	Both	Plugged	Drilled	Mech. Plug
01	58	Both	Plugged	Drilled	Mech. Plug
01	59	Both	Plugged	Drilled	Mech. Plug
01	91	Both	Plugged	Drilled	Mech. Plug
01	92	Both	Plugged	Drilled	Mech. Plug
10	02	Both	Open	N/A	Mech. Plug

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

<p>1. Owner: <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291</p>		<p>2. Plant: <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319</p>	
		<p>Job Number: WA 104344</p>	<p>Sheet 4 of 13</p>
		<p>Line: FNP-1</p>	
		<p>Date: 6/10/91</p>	
<p>3. Work Performed By:</p> <p>Name: <u>Westinghouse NSD S/G Primary Services</u></p> <p>Address: <u>P. O. Box 355, Pittsburgh, PA</u></p>		<p>Type Code Symbol Stamp</p> <p>N/A</p> <p>Authorization Number</p> <p>N/A</p> <p>Expiration Date</p> <p>N/A</p>	
<p>4. Identification Of System</p> <p><u>1A Steam Generator</u></p>			
<p>5. (a) Applicable Construction Code: <u>ASME Section III</u>, 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case</p> <p>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case</p>			

6. Identification Of Components Repaired Or Replaced and Replacement Components:

ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
02	03	Both	Open	N/A	Mech. Plug
14	03	Both	Open	N/A	Mech. Plug
15	03	Both	Open	N/A	Mech. Plug
04	04	Both	Open	N/A	Mech. Plug
14	04	Both	Open	N/A	Mech. Plug
16	04	Both	Open	N/A	Mech. Plug
04	05	Both	Open	N/A	Mech. Plug
11	05	Both	Open	N/A	Mech. Plug
16	05"	Both	Open	N/A	Mech. Plug
09	07	Both	Open	N/A	Mech. Plug
11	07	Both	Open	N/A	Mech. Plug
18	08	Both	Open	N/A	Mech. Plug
16	12	Both	Open	N/A	Mech. Plug
18	13	Both	Open	N/A	Mech. Plug
29	13	Both	Open	N/A	Mech. Plug
28	14	Both	Open	N/A	Mech. Plug
13	16	Both	Open	N/A	Mech. Plug
03	17	Both	Open	N/A	Mech. Plug
33	17	Both	Open	N/A	Mech. Plug

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	Job Number WA 104344	Sheet 5 of 13
			Unit FNP-1	
			Date 6/10/91	

3. Work Performed By Name: <u>Westinghouse NSD S/Q Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
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4. Identification Of System  
1A Steam Generator

5. (a) Applicable Construction Code: ASME Section III, 1968 Edition: S70 Addenda: N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition: Sum '83 Addenda: N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components

ATTACHMENT 1

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
35	17	Both	Open	N/A	Mech. Plug
14	18	Both	Open	N/A	Mech. Plug
04	19	Both	Open	N/A	Mech. Plug
10	19	Both	Open	N/A	Mech. Plug
02	21	Both	Open	N/A	Mech. Plug
07	21	Both	Open	N/A	Mech. Plug
14	22	Both	Open	N/A	Mech. Plug
19	22	Both	Open	N/A	Mech. Plug
33	22	Both	Open	N/A	Mech. Plug
38	22	Both	Open	N/A	Mech. Plug
08	23	Both	Open	N/A	Mech. Plug
11	23	Both	Open	N/A	Mech. Plug
09	24	Both	Open	N/A	Mech. Plug
05	25	Both	Open	N/A	Mech. Plug
06	25	Both	Open	N/A	Mech. Plug
11	25	Both	Open	N/A	Mech. Plug
40	26	Both	Open	N/A	Mech. Plug
06	28	Both	Open	N/A	Mech. Plug
10	28	Both	Open	N/A	Mech. Plug

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	Job Number WA 104344	Sheet 6 of 13
			Unit FNP-1	Date 6/10/91
3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>			Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A	
4. Identification Of System <u>1A Steam Generator</u>				
5. (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum. '83</u> Addenda <u>N/A</u> Code Case				

## 6. Identification Of Components Repaired Or Replaced and Replacement Components

## ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
22	28	Both	Open	N/A	Mech. Plug
42	28	Both	Open	N/A	Mech. Plug
08	29	Both	Open	N/A	Mech. Plug
13	29	Both	Open	N/A	Mech. Plug
16	29	Both	Open	N/A	Mech. Plug
22	29	Both	Open	N/A	Mech. Plug
24	29	Both	Open	N/A	Mech. Plug
10	30	Both	Open	N/A	Mech. Plug
24	30	Both	Open	N/A	Mech. Plug
36	32	Both	Open	N/A	Mech. Plug
41	32	Both	Open	N/A	Mech. Plug
02	33	Both	Open	N/A	Mech. Plug
34	33	Both	Open	N/A	Mech. Plug
09	34	Both	Open	N/A	Mech. Plug
27	34	Both	Open	N/A	Mech. Plug
37	34	Both	Open	N/A	Mech. Plug
08	35	Both	Open	N/A	Mech. Plug
11	35	Both	Open	N/A	Mech. Plug
17	35	Both	Open	N/A	Mech. Plug



Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType L1.52

<b>1. Owner:</b> Alabama Power Company 600 North 18th Street Birmingham, AL 35291		<b>2. Plant:</b> Farley Nuclear Plant Highway 95 South Columbia, AL 36319	<b>Job Number:</b> WA 104344  <b>Sheet:</b> 7 of 13  <b>Unit:</b> FNP-1  <b>Date:</b> 6/10/91
<b>3. Work Performed By:</b> Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>		<b>Type Code Symbol Stamp:</b> N/A Authorization Number: N/A Expiration Date: N/A	
<b>4. Identification Of System:</b> 1A Steam Generator			
<b>5. (a) Applicable Construction Code:</b> <u>ASME Section III, 19 68</u> <b>Edition:</b> <u>S70</u> <b>Addenda:</b> <u>N/A</u> <b>Code Case:</b> <b>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83</b> <b>Edition:</b> <u>Sum '83</u> <b>Addenda:</b> <u>N/A</u> <b>Code Case:</b>			

**6. Identification Of Components Required Or Replaced and Replacement Components**

ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
27	35	Both	Open	N/A	Mech. Plug
39	35	Both	Open	N/A	Mech. Plug
34	36	Both	Open	N/A	Mech. Plug
42	36	Both	Open	N/A	Mech. Plug
29	40	Both	Open	N/A	Mech. Plug
43	41	Both	Open	N/A	Mech. Plug
07	42	Both	Open	N/A	Mech. Plug
12	43	Both	Open	N/A	Mech. Plug
22	47	Both	Open	N/A	Mech. Plug
43	48	Both	Open	N/A	Mech. Plug
06	49	Both	Open	N/A	Mech. Plug
40	49	Both	Open	N/A	Mech. Plug
20	51	Both	Open	N/A	Mech. Plug
14	52	Both	Open	N/A	Mech. Plug
22	55	Both	Open	N/A	Mech. Plug
21	57	Both	Open	N/A	Mech. Plug
25	57	Both	Open	N/A	Mech. Plug
05	59	Both	Open	N/A	Mech. Plug
41	60	Both	Open	N/A	Mech. Plug

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Ferley Nuclear Plant</b> Highway 95 South Columbia, AL 36319		JOB NUMBER WA 104344	Sheet 8 of 13
				LINE FNP-1	
				Date 6/10/91	
3. Work Performed By Name: <u>Westinghouse NSD S/Q Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>				Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A	
4. Identification Of System 1A Steam Generator					
5. (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> , Edition <u>S70</u> , Addenda <u>N/A</u> , Code Case					
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> , Edition <u>Sum. '83</u> , Addenda <u>N/A</u> , Code Case					
6. Identification Of Components Repaired Or Replaced and Replacement Components:					

ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
20	61	Both	Open	N/A	Mech. Plug
40	62	Both	Open	N/A	Mech. Plug
06	63	Both	Open	N/A	Mech. Plug
13	63	Both	Open	N/A	Mech. Plug
22	63	Both	Open	N/A	Mech. Plug
13	64	Both	Open	N/A	Mech. Plug
20	64	Both	Open	N/A	Mech. Plug
13	65	Both	Open	N/A	Mech. Plug
19	65	Both	Open	N/A	Mech. Plug
12	66	Both	Open	N/A	Mech. Plug
13	66	Both	Open	N/A	Mech. Plug
20	66	Both	Open	N/A	Mech. Plug
02	67	Both	Open	N/A	Mech. Plug
35	68	Both	Open	N/A	Mech. Plug
04	70	Both	Open	N/A	Mech. Plug
33	72	Both	Open	N/A	Mech. Plug
29	73	Both	Open	N/A	Mech. Plug
09	74	Both	Open	N/A	Mech. Plug
13	74	Both	Open	N/A	Mech. Plug

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

<b>1. Owner</b> Alabama Power Company 600 North 18th Street Birmingham, AL 35291		<b>2. Plant</b> Farley Nuclear Plant Highway 95 South Columbia, AL 36319	
		Job Number WA 104344	Sheet 9 of 13
		Unit FNP-1	
		Date 6/10/91	
<b>3. Work Performed By</b> Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>		Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A	
<b>4. Identification Of System</b> 1A Steam Generator			
<b>5.</b> (a) Applicable Construction Code: <u>ASME Section III, 12-68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case			
<b>6. Identification Of Components Repaired Or Replaced and Replacement Components</b>			

ATTACHMENT 1

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
33	74	Both	Open	N/A	Mech. Plug
07	75	Both	Open	N/A	Mech. Plug
09	75	Both	Open	N/A	Mech. Plug
34	75	Both	Open	N/A	Mech. Plug
05	76	Both	Open	N/A	Mech. Plug
09	76	Both	Open	N/A	Mech. Plug
28	76	Both	Open	N/A	Mech. Plug
30	76	Both	Open	N/A	Mech. Plug
03	77	Both	Open	N/A	Mech. Plug
35	77	Both	Open	N/A	Mech. Plug
04	80	Both	Open	N/A	Mech. Plug
28	82	Both	Open	N/A	Mech. Plug
31	82	Both	Open	N/A	Mech. Plug
19	86	Both	Open	N/A	Mech. Plug
15	91	Both	Open	N/A	Mech. Plug
03	92	Both	Open	N/A	Mech. Plug
04	93	Both	Open	N/A	Mech. Plug

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	Job Number WA 104344	Sheet 10 of 13
			Unit FNP-1	
			Date 6/10/91	

3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
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4. Identification Of System  
1A Steam Generator

5. (a) Applicable Construction Code: ASME Section III, 19 68 Edition S70 Addenda N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Sum '83 Addenda N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Component:

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	01	Both	Plugged	Drilled	N/A
01	02	Both	Plugged	Drilled	N/A
01	03	Both	Plugged	Drilled	N/A
01	06	Both	Plugged	Drilled	N/A
01	07	Both	Plugged	Drilled	N/A
01	08	Both	Plugged	Drilled	N/A
01	09	Both	Plugged	Drilled	N/A
01	10	Both	Plugged	Drilled	N/A
01	11	Both	Plugged	Drilled	N/A
01	12	Both	Plugged	Drilled	N/A
01	13	Both	Plugged	Drilled	N/A
01	14	Both	Plugged	Drilled	N/A
01	17	Both	Plugged	Drilled	N/A
01	18	Both	Plugged	Drilled	N/A
01	19	Both	Plugged	Drilled	N/A
01	20	Both	Plugged	Drilled	N/A
01	21	Both	Plugged	Drilled	N/A
01	22	Both	Plugged	Drilled	N/A
01	23	Both	Plugged	Drilled	N/A

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner: <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant: <b>Ferley Nuclear Plant</b> Highway 95 South Columbia, AL 36319		Job Number: WA 104344	Sheet 11 of 13
				Unit: FNP-1	
				Date: 6/10/91	
3. Work Performed By: Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>				Type Code Symbol Stamp: N/A Authorization Number: N/A Expiration Date: N/A	
4. Identification Of System: 1A Steam Generator					
5. (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case					

6. Identification Of Components Required Or Replaced and Replacement Components:

ATTACHMENT 11

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	25	Both	Plugged	Drilled	N/A
01	27	Both	Plugged	Drilled	N/A
01	28	Both	Plugged	Drilled	N/A
01	29	Both	Plugged	Drilled	N/A
01	30	Both	Plugged	Drilled	N/A
01	31	Both	Plugged	Drilled	N/A
01	32	Both	Plugged	Drilled	N/A
01	33	Both	Plugged	Drilled	N/A
01	35	Both	Plugged	Drilled	N/A
01	36	Both	Plugged	Drilled	N/A
01	37	Both	Plugged	Drilled	N/A
01	38	Both	Plugged	Drilled	N/A
01	39	Both	Plugged	Drilled	N/A
01	40	Both	Plugged	Drilled	N/A
01	41	Both	Plugged	Drilled	N/A
01	43	Both	Plugged	Drilled	N/A
01	45	Both	Plugged	Drilled	N/A
01	46	Both	Plugged	Drilled	N/A
01	47	Both	Plugged	Drilled	N/A



Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. OWNER		2. Plant	3. Date
Alabama Power Company 800 North 18th Street Birmingham, AL 35291		Farley Nuclear Plant Highway 95 South Columbia, AL 36319	6/10/91

4. Work Performed By	Type Code Symbol Stamp
Name: Westinghouse NSD S/G Primary Services	N/A
Address: P. O. Box 355, Pittsburgh, PA	Authorization Number
	N/A
	Expiration Date
	N/A

5. Identification Of System

1A Steam Generator

6. Identification Of Components Required Or Replaced And Replacement Components

(a) Applicable Construction Code: ASME Section III, 1968 Edition, S70 Addenda N/A Code Case

(b) Applicable Section XI (Utilized For Repairs Or Replacements), 1983 Edition, Sub '83 Addenda N/A Code Case

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	49	Bot*	Plugged	Drilled	N/A
01	51	Both	Plugged	Drilled	N/A
01	52	Both	Plugged	Drilled	N/A
01	54	Both	Plugged	Drilled	N/A
01	56	Both	Plugged	Drilled	N/A
01	60	Both	Plugged	Drilled	N/A
01	61	Both	Plugged	Drilled	N/A
01	62	Both	Plugged	Drilled	N/A
01	63	Both	Plugged	Drilled	N/A
01	64	Both	Plugged	Drilled	N/A
01	65	Both	Plugged	Drilled	N/A
01	66	Both	Plugged	Drilled	N/A
01	67	Both	Plugged	Drilled	N/A
01	68	Both	Plugged	Drilled	N/A
01	69	Both	Plugged	Drilled	N/A
01	70	Both	Plugged	Drilled	N/A
01	71	Both	Plugged	Drilled	N/A
01	72	Both	Plugged	Drilled	N/A
01	73	Both	Plugged	Drilled	N/A

1. Owner: <b>Alabama Power Company</b> 670 North 18th Street Birmingham, AL 35291		2. Plant: <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	Job Number: WA 104344	Sheet 13 of 13
3. Work Performed By: Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>			Unit: FNP-1 Date: 6/10/91	
4. Identification Of System: 1A Steam Generator			Type Code Symbol Stamp: N/A Authorization Number: N/A Expiration Date: N/A	
5. (a) Applicable Construction Code: <u>ASME Section III, 19 68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case				

## 6. Identification Of Components Repaired Or Replaced and Replacement Components

## ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	74	Both	Plugged	Drilled	N/A
01	75	Both	Plugged	Drilled	N/A
01	76	Both	Plugged	Drilled	N/A
01	77	Both	Plugged	Drilled	N/A
01	78	Both	Plugged	Drilled	N/A
01	79	Both	Plugged	Drilled	N/A
01	80	Both	Plugged	Drilled	N/A
01	81	Both	Plugged	Drilled	N/A
01	82	Both	Plugged	Drilled	N/A
01	83	Both	Plugged	Drilled	N/A
01	84	Both	Plugged	Drilled	N/A
01	85	Both	Plugged	Drilled	N/A
01	86	Both	Plugged	Drilled	N/A
01	87	Both	Plugged	Drilled	N/A
01	88	Both	Plugged	Drilled	N/A
01	89	Both	Plugged	Drilled	N/A
01	90	Both	Plugged	Drilled	N/A
01	93	Both	Plugged	Drilled	N/A
01	94	Both	Plugged	Drilled	N/A

As Required By The Provisions Of The ASME Code Section XI

Job Number WA 104345	Sheet 1 of 10
r Plant outh 36319	Unit FNP 1
	Date 6/10/91

2 Plant  
Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

N/A

N/A

N/A

1B Steam Generator

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Sum '83 Addenda N/A Code Cas:

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)
1B S/G	Westinghouse Tampa Division	1422	68-86	Q1B21HQ01B	1972	Replacement	Yes

### B. Tests Conducted

Figure 5-3076-3/88

Job Number  
WA 104345

Sheet 2 of 10

9 Remarks (Applicable Manufacturer's Data Reports To Be Attached)

1) See FNP-1-ETP-4349 (OTC-910321-2) and the Final Report for S/G Eddy Current Inspection for supporting documentation.

2) Three plugs in Attachment 1 were drilled out of HL only and replugged; R1C8, R1C11 and R1C51.

## 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.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Samuel J. Casey, Sys Perf Supv Date 6-13 19 91

Owner or Owner's Designee Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by BRUNNEN MUTUAL INSURANCE COMPANY of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/16/91 to 7/25/91 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.

*A Factory Mutual System*Inspector's Signature Charles G. H. [Signature]Commissions 66-00378 IN

National Board, State, Province, and Endorsements

Date 7/25 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

<p>1. Owner: <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291</p>		<p>2. Plant: <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319</p>	
<p>3. Work Performed By: Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u></p>		<p>Job Number: <u>WA 104345</u> Sheet: <u>3</u> of <u>10</u> Line: <u>FNP 1</u> Date: <u>6/10/91</u> Type Code Symbol Stamp: <u>N/A</u> Authorization Number: <u>N/A</u> Expiration Date: <u>N/A</u></p>	
<p>4. Identification Of System: <u>1B Steam Generator</u></p>			
<p>5. (a) Applicable Construction Code: <u>ASME Section III, 1968</u> Edition: <u>S70</u> Addenda: <u>N/A</u> Code Case: (b) Applicable Section XI Utilized For Repairs Or Replacements, 19<u>83</u> Edition: <u>Sum '83</u> Addenda: <u>N/A</u> Code Case:</p>			
<p>6. Identification Of Components Repaired Or Replaced and Replacement Components:</p>			

ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	05	Both	Plugged	Drilled	Mech. Plug
01	07	Both	Plugged	Drilled	Mech. Plug
01	08	HL	Plugged	Drilled	Mech. Plug
01	11	HL	Plugged	Drilled	Mech. Plug
01	12	Both	Plugged	Drilled	Mech. Plug
01	18	Both	Plugged	Drilled	Mech. Plug
01	19	Both	Plugged	Drilled	Mech. Plug
01	24	Both	Plugged	Drilled	Mech. Plug
01	25	Both	Plugged	Drilled	Mech. Plug
01	29	Both	Plugged	Drilled	Mech. Plug
01	30	Both	Plugged	Drilled	Mech. Plug
01	38	Both	Plugged	Drilled	Mech. Plug
01	47	Both	Plugged	Drilled	Mech. Plug
01	51	HL	Plugged	Drilled	Mech. Plug
01	52	Both	Plugged	Drilled	Mech. Plug
01	53	Both	Plugged	Drilled	Mech. Plug
01	54	Both	Plugged	Drilled	Mech. Plug
01	57	Both	Plugged	Drilled	Mech. Plug
01	59	Both	Plugged	Drilled	Mech. Plug



Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

<b>1. Owner:</b> Alabama Power Company 600 North 18th Street Birmingham, AL 35291		<b>2. Plant:</b> Farley Nuclear Plant Highway 95 South Columbia, AL 36319	
		Job Number WA 104345	Sheet 4 of 10
		Unit FNP 1	
		Date 6/10/91	
<b>3. Work Performed By:</b> Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>		Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A	
<b>4. Identification Of System:</b> 1B Steam Generator			
<b>5.</b> (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sup '83</u> Addenda <u>N/A</u> Code Case			

6. Identification Of Components Repaired Or Replaced and Replacement Components:

ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	60	Both	Plugged	Drilled	Mech. Plug
01	61	Both	Plugged	Drilled	Mech. Plug
01	67	Both	Plugged	Drilled	Mech. Plug
01	76	Both	Plugged	Drilled	Mech. Plug
19	11	Both	Open	N/A	Mech. Plug
22	14	Both	Open	N/A	Mech. Plug
18	21	Both	Open	N/A	Mech. Plug
22	21	Both	Open	N/A	Mech. Plug
04	22	Both	Open	N/A	Mech. Plug
20	23	Both	Open	N/A	Mech. Plug
36	23	Both	Open	N/A	Mech. Plug
18	26	Both	Open	N/A	Mech. Plug
14	28	Both	Open	N/A	Mech. Plug
28	28	Both	Open	N/A	Mech. Plug
34	29	Both	Open	N/A	Mech. Plug
43	43	Both	Open	N/A	Mech. Plug
02	52	Both	Open	N/A	Mech. Plug
27	52	Both	Open	N/A	Mech. Plug
24	55	Both	Open	N/A	Mech. Plug

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319		Job Number WA 104345	Sheet 5 of 10
				Unit FNP 1	Date 6/10/91

3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P.O. Box 355, Pittsburgh, PA</u>		Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
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4. Identification Of System  
1B Steam Generator

5. (a) Applicable Construction Code: ASME Section III, 19 68 Edition S70 Addenda N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Sum '83 Addenda N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
24	60	Both	Open	N/A	Mech. Plug
34	60	Both	Open	N/A	Mech. Plug
33	62	Both	Open	N/A	Mech. Plug
07	65	Both	Open	N/A	Mech. Plug
24	65	Both	Open	N/A	Mech. Plug
02	66	Both	Open	N/A	Mech. Plug
35	66	Both	Open	N/A	Mech. Plug
25	67	Both	Open	N/A	Mech. Plug
26	67	Both	Open	N/A	Mech. Plug
07	68	Both	Open	N/A	Mech. Plug
07	69	Both	Open	N/A	Mech. Plug
15	69	Both	Open	N/A	Mech. Plug
9	70	Both	Open	N/A	Mech. Plug
18	72	Both	Open	N/A	Mech. Plug
25	73	Both	Open	N/A	Mech. Plug
35	73	Both	Open	N/A	Mech. Plug
18	75	Both	Open	N/A	Mech. Plug
25	75	Both	Open	N/A	Mech. Plug
37	75	Both	Open	N/A	Mech. Plug

## RTyp: L1.52

#### Identification Of Components Required Or Replaced and Requirer's Component:

[illegible]

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

<b>1. Owner:</b> Alabama Power Company 600 North 18th Street Birmingham, AL 35291		<b>2. Plant:</b> Farley Nuclear Plant Highway 95 South Columbia, AL 36319		<b>Job Number:</b> WA 104345	<b>Sheet:</b> 7 of 10
<b>3. Work Performed By:</b> Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>		<b>Type Code Symbol Stamp:</b> N/A Authorization Number: N/A Expiration Date: N/A			
<b>4. Identification Of System:</b> 1B Steam Generator					
<b>5. (a) Applicable Construction Code:</b> <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case <b>(b) Applicable Section XI Utilized For Repairs Or Replacements:</b> 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case					
<b>6. Identification Of Components Repaired Or Replaced and Replacement Components:</b>					

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	01	Both	Plugged	Drilled	N/A
01	02	Both	Plugged	Drilled	N/A
01	03	Both	Plugged	Drilled	N/A
01	04	Both	Plugged	Drilled	N/A
01	06	Both	Plugged	Drilled	N/A
01	09	Both	Plugged	Drilled	N/A
01	10	Both	Plugged	Drilled	N/A
01	13	Both	Plugged	Drilled	N/A
01	14	Both	Plugged	Drilled	N/A
01	15	Both	Plugged	Drilled	N/A
01	16	Both	Plugged	Drilled	N/A
01	17	Both	Plugged	Drilled	N/A
01	20	Both	Plugged	Drilled	N/A
01	21	Both	Plugged	Drilled	N/A
01	22	Both	Plugged	Drilled	N/A
01	23	Both	Plugged	Drilled	N/A
01	26	Both	Plugged	Drilled	N/A
01	27	Both	Plugged	Drilled	N/A
01	28	Both	Plugged	Drilled	N/A

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319		WA 104345	Sheet 8 of 10
3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>				Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A	
4. Identification Of System <u>1B Steam Generator</u>					
5. (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case					

6. Identification Of Components Repaired Or Replaced and Replacement Components

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	31	Both	Plugged	Drilled	N/A
01	32	Both	Plugged	Drilled	N/A
01	33	Both	Plugged	Drilled	N/A
01	34	Both	Plugged	Drilled	N/A
01	35	Both	Plugged	Drilled	N/A
01	36	Both	Plugged	Drilled	N/A
01	37	Both	Plugged	Drilled	N/A
01	39	Both	Plugged	Drilled	N/A
01	40	Both	Plugged	Drilled	N/A
01	41	Both	Plugged	Drilled	N/A
01	42	Both	Plugged	Drilled	N/A
01	43	Both	Plugged	Drilled	N/A
01	44	Both	Plugged	Drilled	N/A
01	45	Both	Plugged	Drilled	N/A
01	46	Both	Plugged	Drilled	N/A
01	48	Both	Plugged	Drilled	N/A
01	49	Both	Plugged	Drilled	N/A
01	50	Both	Plugged	Drilled	N/A
01	55	Both	Plugged	Drilled	N/A



1. Owner: <b>Alabama Power Company</b> 500 North 18th Street Birmingham, AL 35291		2. Plant: <b>Ferley Nuclear Plant</b> Highway 95 South Columbia, AL 36316		JOB NUMBER WA 104345	Sheet 9 of 10
				Unit FNP 1	Date 6/10/91
3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>				Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A	
4. Identification Of System 1B Steam Generator					
5. (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case					

## 6. Identification Of Components Repaired Or Replaced and Replacement Components

## ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	56	Both	Plugged	Drilled	N/A
01	58	Both	Plugged	Drilled	N/A
01	62	Both	Plugged	Drilled	N/A
01	63	Both	Plugged	Drilled	N/A
01	64	Both	Plugged	Drilled	N/A
01	65	Both	Plugged	Drilled	N/A
01	66	Both	Plugged	Drilled	N/A
01	68	Both	Plugged	Drilled	N/A
01	69	Both	Plugged	Drilled	N/A
01	70	Both	Plugged	Drilled	N/A
01	71	Both	Plugged	Drilled	N/A
01	72	Both	Plugged	Drilled	N/A
01	73	Both	Plugged	Drilled	N/A
01	74	Both	Plugged	Drilled	N/A
01	75	Both	Plugged	Drilled	N/A
01	77	Both	Plugged	Drilled	N/A
01	78	Both	Plugged	Drilled	N/A
01	79	Both	Plugged	Drilled	N/A
01	80	Both	Plugged	Drilled	N/A

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

<p>1. Owner: <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291</p>		<p>2. Plant: <b>Ferley Nuclear Plant</b> Highway 95 South Columbia, AL 36319</p>	
		<p>JOB NUMBER WA 104345</p>	<p>Sheet 10 of 10</p>
		<p>Unit: FNP 1</p>	
		<p>Date: 6/10/91</p>	
<p>3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u></p>		<p>Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A</p>	
<p>4. Identification Of System <u>1B Steam Generator</u></p>			
<p>5. (a) Applicable Construction Code: <u>ASME Section III, 19 68</u> Edition: <u>S70</u> Addenda: <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition: <u>Sum '83</u> Addenda: <u>N/A</u> Code Case</p>			

6. Identification Of Components Repaired Or Replaced and Replacement Components:

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	81	Both	Plugged	Drilled	N/A
01	82	Both	Plugged	Drilled	N/A
01	83	Both	Plugged	Drilled	N/A
01	84	Both	Plugged	Drilled	N/A
01	85	Both	Plugged	Drilled	N/A
01	86	Both	Plugged	Drilled	N/A
01	87	Both	Plugged	Drilled	N/A
01	88	Both	Plugged	Drilled	N/A
01	89	Both	Plugged	Drilled	N/A
01	90	Both	Plugged	Drilled	N/A
01	91	Both	Plugged	Drilled	N/A
01	92	Both	Plugged	Drilled	N/A
01	93	Both	Plugged	Drilled	N/A
01	94	Both	Plugged	Drilled	N/A

## RTYPE: L1.52

8. Identification Of Components Repaired Or Replaced and Replacement Components[illegible]

### 8. Tests Conducted

☐ Hydrostatic Pressure    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other

Job Number  
WA 104346

Sheet 2 of 11

3 Remarks (Applicable Manufacturer's Data Reports To Be Attached)

- 1) See FNP-1-ETP-4349 (OTC-910321-3) and the Final Report for S/G Eddy Current Inspection for supporting documentation.
- 2) Two plugs in Attachment I were drilled out of hot leg only and replugged; R1C27 & R1C38.
- 3) Two stabilizers were installed in two locations in the hot leg side; R13C21 & R16C23.

## 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.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/ASigned Samuel Casey  
Owner or Owner's Designee, TitleDate 6-17-91 19 91

## 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 GEORGIA and Employed by ARMWRIGHT MUTUAL INSURANCE COMPANY of WILMINGTON, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/10/91 to 7/25/91 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 SYSTEM

Inspector's Signature Charles G. WardCommissions GA-00328 IN  
National Board, State, Province, and EndorsementsDate 7/25 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

Job Number WA 104346	Sheet 3 of 11
Unit FNP 1	Date 6/10/91

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291	2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319
---	---

3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
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4. Identification Of System  
IC Steam Generator

5. (a) Applicable Construction Code: ASME Section III, 19 68 Edition S70 Addenda N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Sum '83 Addenda N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components

ATTACHMENT 1

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	12	Both	Plugged	Drilled	Mech. Plug
01	26	Both	Plugged	Drilled	Mech. Plug
01	27	HL	Plugged	Drilled	Mech. Plug
01	28	Both	Plugged	Drilled	Mech. Plug
01	31	Both	Plugged	Drilled	Mech. Plug
01	34	Both	Plugged	Drilled	Mech. Plug
01	38	HL	Plugged	Drilled	Mech. Plug
01	41	Both	Plugged	Drilled	Mech. Plug
01	43	Both	Plugged	Drilled	Mech. Plug
01	68	Both	Plugged	Drilled	Mech. Plug
01	70	Both	Plugged	Drilled	Mech. Plug
01	78	Both	Plugged	Drilled	Mech. Plug
10	03	Both	Open	N/A	Mech. Plug
13	03	Both	Open	N/A	Mech. Plug
24	09	Both	Open	N/A	Mech. Plug
14	12	Both	Open	N/A	Mech. Plug
02	14	Both	Open	N/A	Mech. Plug
06	14	Both	Open	N/A	Mech. Plug
09	14	Both	Open	N/A	Mech. Plug



Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

Job Number WA 104346	Sheet 4 of 11
Unit FNP 1	Date 6/10/91

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291	2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319
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3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
---	--

4. Identification Of System  
1C Steam Generator

5. (a) Applicable Construction Code: ASME Section III, 19 68 Edition S70 Addenda N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Rev. 183 Addenda N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

ATTACHMENT 1

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
26	15	Both	Open	N/A	Mech. Plug
05	17	Both	Open	N/A	Mech. Plug
03	18	Both	Open	N/A	Mech. Plug
13	21	Both	Open	N/A	Mech. Plug
30	21	Both	Open	N/A	Mech. Plug
04	22	Both	Open	N/A	Mech. Plug
31	22	Both	Open	N/A	Mech. Plug
16	23	Both	Open	N/A	Mech. Plug
16	24	Both	Open	N/A	Mech. Plug
21	24	Both	Open	N/A	Mech. Plug
07	25	Both	Open	N/A	Mech. Plug
13	25	Both	Open	N/A	Mech. Plug
20	25	Both	Open	N/A	Mech. Plug
22	25	Both	Open	N/A	Mech. Plug
23	25	Both	Open	N/A	Mech. Plug
09	27	Both	Open	N/A	Mech. Plug
12	27	Both	Open	N/A	Mech. Plug
18	28	Both	Open	N/A	Mech. Plug
05	29	Both	Open	N/A	Mech. Plug

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	3. Job Number WA 104346	Sheet 5 of 11
			Unit FNP 1	
			Date 6/10/91	

4. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
---	--

5. Identification Of System  
1C Steam Generator

- (a) Applicable Construction Code: ASME Section III, 19 68, Edition S70, Addenda N/A, Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83, Edition Sum '87, Addenda N/A, Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Component:

ATTACHMENT I

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
08	30	Both	Open	N/A	Mech. Plug
24	31	Both	Open	N/A	Mech. Plug
39	31	Both	Open	N/A	Mech. Plug
15	33	Both	Open	N/A	Mech. Plug
24	33	Both	Open	N/A	Mech. Plug
40	33	Both	Open	N/A	Mech. Plug
10	35	Both	Open	N/A	Mech. Plug
25	35	Both	Open	N/A	Mech. Plug
42	35	Both	Open	N/A	Mech. Plug
06	37	Both	Open	N/A	Mech. Plug
03	38	Both	Open	N/A	Mech. Plug
18	40	Both	Open	N/A	Mech. Plug
26	40	Both	Open	N/A	Mech. Plug
38	41	Both	Open	N/A	Mech. Plug
43	41	Both	Open	N/A	Mech. Plug
21	42	Both	Open	N/A	Mech. Plug
43	43	Both	Open	N/A	Mech. Plug
45	44	Both	Open	N/A	Mech. Plug
22	47	Both	Open	N/A	Mech. Plug

## RTYPE: L1.52

ATTACHMENT IForm 5-3977 3/88

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType. L1.52

<p>1. Owner: <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291</p>		<p>2. Plant: <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319</p>	<p>ASB Number: WA 104346</p> <p>Sheet 7 of 11</p> <p>Unit: FNP 1</p> <p>Date: 6/10/91</p>
--	--	--	---

<p>3. Work Performed By:</p> <p>Name: <u>Westinghouse NSD S/G Primary Services</u></p> <p>Address: <u>P. O. Box 355, Pittsburgh, PA</u></p>	<p>Type Code Symbol Stamp</p> <p>N/A</p> <p>Authorization Number</p> <p>N/A</p> <p>Expiration Date</p> <p>N/A</p>
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4. Identification Of System

1C Steam Generator

5. (a) Applicable Construction Code: ASME Section III, 19 68 Edition A70 Addenda N/A Code Case

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Sum '83 Addenda N/A Code Case

6. Identification Of Components Required Or Replaced and Replacement Components:

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	01	Both	Plugged	Drilled	N/A
01	02	Both	Plugged	Drilled	N/A
01	03	Both	Plugged	Drilled	N/A
01	04	Both	Plugged	Drilled	N/A
01	05	Both	Plugged	Drilled	N/A
01	06	Both	Plugged	Drilled	N/A
01	07	Both	Plugged	Drilled	N/A
01	08	Both	Plugged	Drilled	N/A
01	09	Both	Plugged	Drilled	N/A
01	10	Both	Plugged	Drilled	N/A
01	11	Both	Plugged	Drilled	N/A
01	13	Both	Plugged	Drilled	N/A
01	14	Both	Plugged	Drilled	N/A
01	15	Both	Plugged	Drilled	N/A
01	16	Both	Plugged	Drilled	N/A
01	17	Both	Plugged	Drilled	N/A
01	18	Both	Plugged	Drilled	N/A
01	19	Both	Plugged	Drilled	N/A
01	20	Both	Plugged	Drilled	N/A



Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	Job Number WA 104346	Sheet 8 of 11
			Unit FNP 1	
			Date 6/10/91	

3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
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4. Identification Of System  
1C Steam Generator

5. (a) Applicable Construction Code: ASME Section III, 19 68 Edition S70 Addenda N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Sum '83 Addenda N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	21	Both	Plugged	Drilled	N/A
01	22	Both	Plugged	Drilled	N/A
01	23	Both	Plugged	Drilled	N/A
01	24	Both	Plugged	Drilled	N/A
01	25	Both	Plugged	Drilled	N/A
01	29	Both	Plugged	Drilled	N/A
01	30	Both	Plugged	Drilled	N/A
01	32	Both	Plugged	Drilled	N/A
01	33	Both	Plugged	Drilled	N/A
01	35	Both	Plugged	Drilled	N/A
01	36	Both	Plugged	Drilled	N/A
01	37	Both	Plugged	Drilled	N/A
01	40	Both	Plugged	Drilled	N/A
01	42	Both	Plugged	Drilled	N/A
01	44	Both	Plugged	Drilled	N/A
01	45	Both	Plugged	Drilled	N/A
01	46	Both	Plugged	Drilled	N/A
01	47	Both	Plugged	Drilled	N/A
01	48	Both	Plugged	Drilled	N/A



Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291		2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	
		Job Number WA 104346	Sheet 9 of 11
		Unit FNP 1	
		Date 6/10/91	

3. Work Performed By Name: <u>Westinghouse NSD S/G Primary Services</u> Address: <u>P. O. Box 355, Pittsburgh, PA</u>	Type Code Symbol Stars N/A Authorization Number N/A Expiration Date N/A
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4. Identification Of System IC Steam Generator
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5. (a) Applicable Construction Code: <u>ASME Section III</u> , 19 <u>68</u> Edition <u>S70</u> Addenda <u>N/A</u> Code Case (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 <u>83</u> Edition <u>Sum '83</u> Addenda <u>N/A</u> Code Case
---

6. Identification Of Components Required Or Replaced and Replacement Components

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	49	Both	Plugged	Drilled	N/A
01	50	Both	Plugged	Drilled	N/A
01	51	Both	Plugged	Drilled	N/A
01	52	Both	Plugged	Drilled	N/A
01	53	Both	Plugged	Drilled	N/A
01	54	Both	Plugged	Drilled	N/A
01	55	Both	Plugged	Drilled	N/A
01	56	Both	Plugged	Drilled	N/A
01	57	Both	Plugged	Drilled	N/A
01	58	Both	Plugged	Drilled	N/A
01	59	Both	Plugged	Drilled	N/A
01	60	Both	Plugged	Drilled	N/A
01	61	Both	Plugged	Drilled	N/A
01	62	Both	Plugged	Drilled	N/A
01	63	Both	Plugged	Drilled	N/A
01	64	Both	Plugged	Drilled	N/A
01	65	Both	Plugged	Drilled	N/A
01	66	Both	Plugged	Drilled	N/A
01	67	Both	Plugged	Drilled	N/A

Form NIS-2 Owner's Report For Repairs Or Replacements  
Supplemental Sheet

RType: L1.52

<b>1. Owner:</b> Alabama Power Company 600 North 18th Street Birmingham, AL 35291		<b>2. Plant:</b> Farley Nuclear Plant Highway 95 South Columbia, AL 36319	
		<b>Job Number:</b> WA 104346	<b>Sheet</b> 10 <b>of</b> 11
		<b>Unit:</b> FNP 1	
		<b>Date:</b> 6/10/91	

<b>3. Work Performed By:</b> <b>Name:</b> <u>Westinghouse NSD S/Q Primary Services</u> <b>Address:</b> <u>P. O. Box 355, Pittsburgh, PA</u>	<b>Type Code Symbol Stamp</b> N/A <b>Authorization Number</b> N/A <b>Expiration Date</b> N/A
---	---

<b>4. Identification Of System:</b> 1C Steam Generator
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<b>5. (a) Applicable Construction Code:</b> <u>ASME Section III, 19 68</u> <b>Edition:</b> <u>S70</u>	<b>Addenda:</b> <u>N/A</u> <b>Code Case:</b>
<b>(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83</b> <b>Edition:</b> <u>Sum '83</u>	<b>Addenda:</b> <u>N/A</u> <b>Code Case:</b>

<b>6. Identification Of Components Required Or Replaced and Replacement Components:</b>
---

ATTACHMENT II

ROW	COLUMN	LEG	ORIGINAL CONDITION	REMOVAL METHOD	REPLACEMENT METHOD
01	69	Both	Plugged	Drilled	N/A
01	71	Both	Plugged	Drilled	N/A
01	72	Both	Plugged	Drilled	N/A
01	73	Both	Plugged	Drilled	N/A
01	74	Both	Plugged	Drilled	N/A
01	75	Both	Plugged	Drilled	N/A
01	76	Both	Plugged	Drilled	N/A
01	77	Both	Plugged	Drilled	N/A
01	79	Both	Plugged	Drilled	N/A
01	80	Both	Plugged	Drilled	N/A
01	81	Both	Plugged	Drilled	N/A
01	82	Both	Plugged	Drilled	N/A
01	83	Both	Plugged	Drilled	N/A
01	84	Both	Plugged	Drilled	N/A
01	85	Both	Plugged	Drilled	N/A
01	86	Both	Plugged	Drilled	N/A
01	87	Both	Plugged	Drilled	N/A
01	88	Both	Plugged	Drilled	N/A
01	89	Both	Plugged	Drilled	N/A

## RTyp: L1.52

ATTACHMENT IIForm 5-3977 3/88

## KType: L1.52

[illegible]

## Form 5-3876 3/88

Job Number

E11-MWR237741

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R139:

Plunger (2 each) - MIF 91 041727

Piston/rod assembly - MIF 91 042003

Cylinder - MIF 91 042009

Plug, 1/2 NPT - MIF 91 042202

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 replacementType Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned McThomas Mar Maint FNP Date May 10, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ACKWORTH MUTUAL INSURANCE CO.\* of ANDREWS, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/20/91 to 5/20/91, 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 SYSTEM

Charles E. Ward  
Inspector's SignatureCommissions GA-00328  
National Board, State, Province, and EndorsementsDate 5/20 19 91



## RType: L1.52

Job Number E11-MWR237742 Sheet 1 of 2

3. Work Performed By	Type Code Symbol Stamp
Name: <u>Alabama Power Company Maintenance Department</u>	N/A
Address: <u>Joseph M. Farley Nuclear Plant</u>	Authorization Number
	N/A
	Expiration Date
	N/A

### Safety Injection System

5.

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda N/A Code Case     

[illegible]

Snubber SI-R146A was removed from support by Fluor Constructors, tested, rebuilt and retested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

☐ Hydrostatic Pressure   
 ☐ Pneumatic   
 ☐ Nominal Operating Pressure   
 ☒ None   
 ☐ Other

Job Number

E11-MWR237742

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R146A:

Load stud nut MIF 91 042939

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 McHuen Mar Mount FNP Date May 18, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARRINGTON MUTUAL INSURANCE Co.\* of NORFOLK, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/20/91 to 5/20/91, 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 SYSTEM

Charles G. Ward Commissions 60-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/20 1991

## KType: L1.52

1

## 6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

### 8. Tests Conducted

Job Number

E11-MWR237743

Sheet 2 of 2

D. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R146B:

Plunger (2 each) - NIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 II.  
repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned Mr. Thomas Mac McInt FNP Date May 18, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT METAL & SUPPLY Co. \* of WARRWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/20/91 to 5/20/91 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 II.

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 METAL SYSTEM

Charles E. Ward  
Inspector's Signature

Commissions GA-00328  
National Board, State, Province, and Endorsements

Date 5/20 1991

## RType: L1.52

## 7. Description Of Work

### 8. Tests Conducted

Form 5-397e 3/85



Job Number

E11-MWR237744

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R152:

Plunger (2 each) - MIF 91 038335

Piston/rod assembly - MIF 91 041055

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 Mgc Moint FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/12/91 to 6/12/91, 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 System

Inspector's Signature Charles G. Ward Commissions GA-00328  
National Board, State, Province, and EndorsementsDate 6/12 19 91

## RType: L1.52

RType: L1.52

		Job Number	E11-MWR237745	Sheet 1 of 2
1. Owner	2. Plant	Unit		
Alabama Power Company 600 North 18th Street Birmingham, AL 35291	Farley Nuclear Plant Highway 95 South Columbia, AL 36319	FNP 1		
		Date	April 12, 1991	
3. Work Performed By		Type Code Symbol Stamp		
Name: <u>Alabama Power Company Maintenance Department</u>			N/A	
		Authorization Number		
Address: <u>Joseph M. Farley Nuclear Plant</u>			N/A	
		Expiration Date		
			N/A	

### Safety Injection System

(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda,      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case     

8. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

Snubber SI-R154A was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

☐ Hydrostatic Pressure   
 ☐ Pneumatic   
 ☐ Nominal Operating Pressure   
 ☒ None   
 ☐ Other



## RType: L1.52

Sheet 1 of 2

E11-MWR237749

Sheet 1 of 2

FND 1

March 31, 1991

N/A

N/A

N/A

### Safety Injection System

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

Snubber SI-R157A was removed from support by Fluor Constructors, tested, rebuilt and retested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ °F

Job Number

E11-MWR237749

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R157A:

Load stud nut - MIF 91 040604

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 McMinn McMinn FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASSACHUSETTS and Employed by FACTORIAL MUTUAL INSURANCE CO. of NEW BEDFORD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/12/91 to 6/12/91 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 SYSTEM

Charles G. Ward  
Inspector's SignatureCommissions SA-00328  
National Board, State, Province, and EndorsementsDate 6/12 1991



## RType: L1.52

[illegible]

## Form 5-3976 3/88

Job Number

E11-MWR237750

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R157B:

Plunger - MIF 91 041727

Cylinder - MIF 91 042008

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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] Mgr Maint FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMENAT MUTUAL INSURANCE Co \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/12/91 to 6/12/91 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 SYSTEM

[Signature]  
Inspector's SignatureCommissions GA-00328  
National Board, State, Province, and EndorsementsDate 6/12 1991

## Rtype: L1.52

Sheet 1 of 2

E11-HWE237763

Sheet 1 of 2

FNP 1

March 31, 1991

N/A

Authorization Number

NA

Expiration Date

N/A

### Safety Injection System

(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

8. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

Snubber SI-R189 was removed from support by Fluor Constructors, tested, rebuilt and retested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
 Pressure    ☐ Test Temp

Job Number

R11-MWR237963

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R189:

Hex head screw (2 each) - MIF 91 040857

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M. J. Moin Mar Moin Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/14/91 to 6/14/91, 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 SYSTEM

Charles J. Ward Commissions GA-10328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/14 19 91

## TYPE: 11.02

E11-HNR237767

Sheet 1 of 2

2. Plant

Unit

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

END 1

Date \_\_\_\_\_

April 3, 1991

Type Code Symbol Stamp

NA

Name: Alabama Power Company Maintenance Department

Authorization Number

NA

Address: Joseph M. Farley Nuclear Plant

Expiration Date

N/A

### Safety Injection System

5

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda, N/A Code Case

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 Started (Yes or No)
Pipe Hanger	Daniel Const. Co.	Mark No. SI-R199	N/A	Component No. H1488	1986	Repaired	No

## 7. Description Of Work

Snubber SI-R199 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other \_\_\_\_\_  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F



Job Number

E11-MWR237767

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached:

The following code part(s) was/were replaced on snubber support SI-B199:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

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 II. repair or replacement

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

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

Signed V. Housh Wgr Maint FNP Date May 15, 1991  
Owner or Owner's Designee, Title

Owner of Owner &amp; Designee, Title

Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the State or Province of GEORGIA and Employed by ARLWRIGHT INDUSTRIAL INSURANCE Co. of ROSEMOND, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/24/91 to 5/24/91 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 SYSTEM

Charles G. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

National Board, State, Province, and Endorsements

Date 5/24 1991

*i*

As Required By The Provisions Of The ASME Code Section XI

[illegible]

Scrubber SI-R202 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

☐ Hydrostatic Pressure   
 ☐ Pneumatic Pressure   
 ☐ Nominal Operating Pressure   
 ☒ None   
 ☐ Other

PSI    Test Temp

Job Number

E11-MWR237768

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R202:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 J. Thomas Mgr Maint FND Date May 15 19 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO. # of ARMSTRONG, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/23/91 to 5/23/91 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 RATED SYSTEM

Inspector's Signature Charles G. Wood Commissions GA-66328  
National Board, State, Province, and EndorsementsDate 5/23 19 91

## KType: L1.52

[illegible]

☐ Hydraulic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other

Job Number

E11-MWR237788

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R258A:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

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 McThomas Mgr. Maint PNP Date May 15, 1991  
Owner or Owner's Designee, Title

Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASSACHUSETTS and Employed by ADRIANET RENTAL INSURANCE Co\* of NEENAWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/11/91 to 6/1/91 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 System

Charles G. Ward  
Inspector's Signature

Commission SA-00378  
National Board, State, Province, and Endorsements

Date 6/1, 1991



## KType: L1.52

		Job Number	Ell-MWk237789	Sheet 1 of 2
1. Owner	2. Plant	Unit		
Alabama Power Company 600 North 18th Street Birmingham, AL 35291	Farley Nuclear Plant Highway 95 South Columbia, AL 36319	FNP 1		
		Date		
		April 3, 1991		
3. Work Performed By		Type Code Symbol & amp		
Name: <u>Alabama Power Company Maintenance Department</u>			N/A	
		Authorization Number		
Address: <u>Joseph M. Farley Nuclear Plant</u>			N/A	
		Expiration Date		
			N/A	

#### 4. Identification Of System

### Safety Injection System

5

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda N/A Code Case     

## 8. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

## 7. Description Of Work

Snubber SI-R258B was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
 Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ °F

Job Number

E11-MWR237789

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-K258B:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 II.

repair or replacement

Type Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned McHward Mac Moist FNP Date May 15, 19 91

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE Co \* of WORMWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/13/91 to 6/13/91 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 II.

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 SYSTEM

Shocks G Ward  
Inspector's Signature

Commission GA-00328  
National Board, State, Province, and Endorsements

Date 6/13 19 91

## ATYPB: 11.52

Sheet 1 of 2

Unit 1

FNP 1

April 4, 1991

Type	Code	Symbol	Stamp
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
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99	99	99	99
100	100	100	100

44

Author's last name and initials

44

Expiration Date

444

### Safety Injection System

1

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda, N/A Code Case

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)
Pipe Hanger	Daniel Const. Co.	Mark No. SI-R261	N/A	Component No. H1521	1986	Repaired	No

## 7. Description Of Work

Snubber SI-R261A was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### B. Tests Conducted

Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other ☐  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F

Job Number

E11-MWR237791

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R261A:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of AWS

Section III.

## 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 Mr. McInt FNP Date May 18, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/5/91 to 6/5/91 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 SYSTEM

Charles G. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/5 1991

## Type: 11.52

E11-HWR237792

Sheet 1 of 2

6. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other

Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ F



Job Number

E11-MWR237792

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubbet support S1-R261B:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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] Mgr Maint FNP Date May 18 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO\* of NORWELL, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/5/91 to 6/5/91 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 SYSTEM

[Signature]  
 Inspector's Signature

Commissions GA-00338  
 National Board, State, Province, and Endorsements

Date 6/5 19 91

## RType: 11.52

Job Number

E11-MWR237793

Sheet 1 of 2

J. Omer

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

## 2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36819

Unit 4

1000

1348 540

April 4, 1991

### 3. Work Performed By

Type	Code	Symbol	Stamp
1	001	001	001
2	002	002	002
3	003	003	003
4	004	004	004
5	005	005	005
6	006	006	006
7	007	007	007
8	008	008	008
9	009	009	009
10	010	010	010
11	011	011	011
12	012	012	012
13	013	013	013
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15	015	015	015
16	016	016	016
17	017	017	017
18	018	018	018
19	019	019	019
20	020	020	020
21	021	021	021
22	022	022	022
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25	025	025	025
26	026	026	026
27	027	027	027
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42	042	042	042
43	043	043	043
44	044	044	044
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59	059	059	059
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76	076	076	076
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78	078	078	078
79	079	079	079
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81	081	081	081
82	082	082	082
83	083	083	083
84	084	084	084
85	085	085	085
86	086	086	086
87	087	087	087
88	088	088	088
89	089	089	089
90	090	090	090
91	091	091	091
92	092	092	092
93	093	093	093
94	094	094	094
95	095	095	095
96	096	096	096
97	097	0	

44

Name: Alabama Power Company Maintenance Department

Authorization Number

44

Address: Joseph M. Farley Nuclear Plant

Expiration Date

428

#### 4. Identification Of System

### Safety Injection System

1

(a) Applicable Construction Code: \* See Sheet 2, 19   Edition    Addenda    Code Case     
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19  83   Edition Summer 83 Addenda N/A Code Case   

6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

Snubber SI-R262 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 5. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
PSI Test Temp F.

Job Number

E11-MWR237793

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached):

The following code part(s) was/were replaced on snubber support SI-R262:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M. J. Thomas Mgr. Maint FNP Date May 18, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT MUTUAL INSURANCE Co\* of ANDREWS, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/5/91 to 6/5/91, 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 SYSTEM

Charles G. W... Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/5 19 91

## RType: 11.52

Form 5-3876 3/88





## KType: 11.52

[illegible]

☐ Hydrostatic Pressure    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other

Job Number

E11-MWR237796

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R264:

Plunger - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M. J. Morris M. J. Moriat Date May 14 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE \* of WENHOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/14/91 to 6/14/91, 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 System

Charles E. Ward Commissions SA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/14 19 91

## RType: L1.52

[illegible]

☐ Hydrostatic Pressure   
 ☐ Pneumatic   
 ☐ Nominal Operating Pressure   
 ☒ No. 6   
 ☐ Other

Job Number

E11-MWR237869

Sheet 2 of 2

Remarks (Applicable Manufacturer's Data Reports To Be Attached):

The following code part(s) was/were replaced on snubber support RHR-R103A:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 W. J. Howard Mgr Maint FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO. of ANDOVER, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/2/91 to 7/2/91, 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 INITIAL SYSTEM

Charles J. Ward  
Inspector's SignatureCommissions GA-00328

National Board, State, Province, and Endorsements

Date 7/2 1991

## RT type: L1.52

Form 5-3978 3/88



Job Number

E11-MWR237871

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RHR-R103B:

Plunger (2 each) - MIF 91 036335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 Mr. McInt FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORIAL MUTUAL INSURANCE CO. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/5/91 to 6/8/91, 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.

Charles G. Ward  
Inspector's Signature

Commission GA-60328  
National Board, State, Province, and Endorsements

Date 6/5 1991

## 3type: L1.52

John Hunter

E11-MWK237872

Sheet 1 of 2

1. Owner

## 2. First

Unit 3 1

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

END 1

力能也

March 30, 1991

### 3. Work Performed By

Type	Code	Symbol	Stamp
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
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99	99	99	99
100	100	100	100

444

Name: Alabama Power Company Maintenance Department

Authorisation Number

424

Address: Joseph M. Farley Nuclear Plant

Expiration Date

44-4

#### 4. Identification Of System

### Residual Heat Removal System

5

(a) Applicable Construction Code: \* See Sheet 2, 19\_\_ Edition \_\_\_\_, Addenda, \_\_\_\_ Code Case \_\_\_\_

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19\_\_ Edition \_\_\_\_, Addenda, \_\_\_\_ Code Case \_\_\_\_

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)
Pipe Hanger	Daniel Const. Co.	Mark No. RHE-R108	N/A	Component No. H1362	1988	Repaired	No

## 7. Description Of Work

Snubber RHR-R106 was removed from support by Fluor Constructors, tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☐ Other ☐  
 Test Temp ☐

Job Number

E11-MWR237872

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RHR-R106:

Load stud - MIF 91 041343

Load stud nut (2 each) - MIF 91 041343

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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 [Signature] Mar Maint FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO\* of NEWMARKET, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/7/91 to 6/7/91 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.

\* Railway Boiler System

[Signature] Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/7 19 91

## KType: L1.52

Job Number

E11-MWR237873

Sheet 1 of 2

## 1. Order

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

## 2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

Unit 10

FNP 1

Data

March 28, 1991

B. WORK PERFORMED BY

Type Code Syms: 55/20

Name: Alabama Power Company Maintenance Department

Correlation Number

Address: Joseph M. Farley Nuclear Plant

Expiration Date

1

N/A

424

#### 4. Identification Of System

Residual Heat Removal System

1

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda, N/A Code Case

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)
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Pipe Hanger	Daniel Const. Co. Mark No. RHR-R109	N/A	Component No.	H1364	1986	Repaired	No
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## 7. Description Of Work

Snubber RHA-R109 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### B. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ F.

Job Number

E11-MWR237873

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached):

The following code part(s) was/were replaced on snubber support RHR-R109:

Orifice valve stem (2 each) - MIF 91 040324

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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 William Mar Maint FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by BRUNNEN METAL INSURANCE Co\* of VERMONT, VERMONT have inspected the components described in this Owner's Report during the period 6/3/91 to 6/3/91, 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 METAL SYSTEM

Charles E. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/3 1991



## RType: L1-52

[illegible]

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ °F

Job Number

K21-MWR230647

Sheet 2 of 2

## 6. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R311:

Cylinder - MIF 91 044009

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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 Mar Mdiat Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of SEATTLE and Employed by FACTORY MUTUAL INSURANCE CO \* of VORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/12/91 to 6/12/91 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 SYSTEM

Charles G Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/12 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number

E21-MWR230652

Sheet 1 of 2

1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

2. Plant

Farley Nuclear Plant  
Highway #5 South  
Columbis, AL 36319

Unit

FNP 1

Date

March 26, 1991

3. Work Performed By

Name: Alabama Power Company Maintenance Department

Address: Joseph M. Farley Nuclear Plant

Type Code Symbol Stamp

N/A

Authorization Number

N/A

Expiration Date

N/A

4. Identification Of System

Chemical and Volume Control System

5.

(a) Applicable Construction Code: \* See Sheet 2, 19\_\_ Edition \_\_\_\_, Addenda, \_\_\_\_, Code Case \_\_\_\_,  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19\_\_ Edition Summer 83, Addenda, N/A, Code Case \_\_\_\_,

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)
Snubber	Pacific Scientific	693	N/A	Component No. M1621	1976	Replaced	No
Snubber	Pacific Scientific	36375	N/A	Component No. M3262	1988	Replacement	No

7. Description Of Work

Snubber SS-2675B was removed from support by Fluor Constructors, tested by Wyle Laboratories and, due to its degraded condition, was replaced with a new snubber. Ref: MIF 91 039324.

8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
PSI Test Temp \_\_\_\_\_ °F.

Job Number

E21-MWR230652

Sheet 2 of 2

D. Remarks (Applicable Manufacturer's Data Reports, To Be Attached)

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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] Mgr Maint PNP Date May 22, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FAIRBANKS INSURANCE CO. # of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/11/91 to 6/11/91, 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 SYSTEM

[Signature] Commission SA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/11 19 91

## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

As Required By The Provisions Of The ASME Code Section XI

Job Number

E21-MWR230654

Sheet 1 of 2

## 1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

## 2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

## Unit

FNP 1

## Date

March 26, 1991

## 3. Work Performed By

## Type Code Symbol Stamp

N/A

Name: Alabama Power Company Maintenance Department

## Authorization Number

N/A

Address: Joseph M. Farley Nuclear Plant

## Expiration Date

N/A

## 4. Identification Of System

Chemical and Volume Control System

## 5.

- (a) Applicable Construction Code: \* See Sheet 2, 19\_\_ Edition \_\_\_\_, Addenda, \_\_\_\_, Code Case \_\_\_\_,  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19\_\_ Edition Summer 83, Addenda, N/A, Code Case \_\_\_\_,

## 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)
Snubber	Pacific Scientific	671	N/A	Component No. M1624	1976	Replaced	No
Snubber	Pacific Scientific	38378	N/A	Component No. M3264	1988	Replacement	No

## 7. Description Of Work

Snubber SS-2679A was removed from support by Fluor Constructors, tested by Wyle Laboratories and, due to its degraded condition, was replaced with a new snubber. Ref: MIF 91 039420.

## 8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
 PSI Test Temp \_\_\_\_ F.



Job Number

E21-MWR100654

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached):

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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/ASigned J. P. Howard Mar. Maint. FNP Date May 22, 1991

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 4/11/91 to 6/11/91 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 SYSTEM

Charles J. Ward  
Inspector's Signature

Commissions SA-00328  
National Board, State, Province, and Endorsements

Date 6/11 1991

## KType: L1.52

[illegible]

8. Tests Conducted

☐ Hydrostatic Pressure    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other

PSI    Test Temp    (F)

Job Number

E21-MWR230672

Sheet 2 of 2

C. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SS-4623A:

Load stud - MIF 91 037550

Load stud nut (2 each) - MIF 91 037550

\* Pipe hanger was designed to AISC requirements and welded to ASME requirements using material traceability requirements of ASME

Section III.

## 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] Walter McInt Date May 14, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKADAMAT MUTUAL INSURANCE Co \* of NEWTON, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/24/91 to 6/24/91 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 SYSTEM

[Signature]  
Inspector's SignatureCommissions 60-00326  
National Board, State, Province, and EndorsementsDate 6/24 1991

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number

E21-MWR232656

Sheet 1 of 2

1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date April 15, 1991

3. Work Performed By Name: Alabama Power Company Maintenance Department Address: Joseph M. Farley Nuclear Plant	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
---	--

4. Identification Of System  
Chemical and Volume Control System

5.  
(a) Applicable Construction Code: \* See Sheet 2, 19\_\_ Edition \_\_\_\_, Addenda, \_\_\_\_, Code Case \_\_\_\_,  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19\_\_ Edition \_\_\_\_, Addenda, \_\_\_\_, Code Case \_\_\_\_,

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)
Snubber	Pacific Scientific	26147	N/A	Component No. M3651	1985	Replaced	No
Snubber	Pacific Scientific	1940	N/A	Component No. M3266	1980	Replacement	No

7. Description Of Work  
Snubber SS-4141C was removed from support by Fluor Constructors and, due to its degraded condition, was replaced with a new snubber. Ref: MIF 91 044915.

8. Tests Conducted  
☐ Hydrostatic Pressure    ☐ Pneumatic Pressure    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
 PSI    Test Temp    F.





Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RTyp: L1.52

		Job Number	E21-MWR237735	Sheet 1 of 2
1. Owner	2. Plant	Unit		
Alabama Power Company 600 North 18th Street Birmingham, AL 35291	Farley Nuclear Plant Highway 95 South Columbia, AL 36319	FNP 1		
		Date		
		April 9, 1991		
3. Work Performed By		Type Code Symbol Stamp		
Name: <u>Alabama Power Company Maintenance Department</u>			N/A	
		Authorization Number		
Address: <u>Joseph M. Farley Nuclear Plant</u>			N/A	
		Expiration Date		
			N/A	

#### 4. Identification Of System

### Safety Injection System

## 5.

(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda N/A Code Case     

8. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

## 7. Description Of Work

Snubber SI-R123B was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other ☐  
PSI Test Temp \_\_\_\_\_ °F

Job Number

E21-MWR237735

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached):

The following code part(s) was/were replaced on snubber support SI-R123B:

Orifice valve stem- MIF 91 043433

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 Mr. Mait FNP Date May 18, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMURANT MUTUAL INSURANCE CO \* of ROCKWELL, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/4/91 to 6/4/91, 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 System

Inspector's SignatureCommissions GA-00328

National Board, State, Province, and Endorsements

Date 6/4 1991



Job Number

E21-MWR237737

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R124B:

Load stud - MIF 91 039683

Load stud nut (2 each) - MIF 91 039683

\* Pipe hanger was designed to AISC requirements and welded to using material traceability requirements of ASME

Section III.

## 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 [Signature] Mar Morat FNP Date May 10, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO\* of ARMWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/4/91 to 6/4/91, 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 SYSTEM

[Signature] Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/4 19 91

## RType: L1.52

Form 5-3976 3/88



Job Number

E21-MWR237739

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R127:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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

*J. J. Howard*

Mar Maint FNP

Date May 18, 19 91

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMWRIGHT MUTUAL INSURANCE CO\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/4/91 to 6/4/91, 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 SYSTEM

*Charles J. Howard*  
 Inspector's Signature

Commissions GA-00328

National Board, State, Province, and Endorsements

Date 6/4 19 91

## RType: L1.52

Form 5-3978 3/88



## RType: L1.52

Form 5-3976 3/88

Job Number

E21-MWR237755

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R174A:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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] Mr. Mount FNP Date May 20, 1991

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO\* of WORRHOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/10/91 to 6/10/91, 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 System

[Signature]  
Inspector's SignatureCommissions GA-CC328

National Board, State, Province, and Endorsements

Date 6/10 1991



## RType: L1.52

#### 4. Identification Of System

5

6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

### 8. Tests Conducted

Form 5-3976 3/88

Job Number

E21-MWR237756

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R174B:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 McDonald Mr McInt FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/7/91 to 6/7/91, 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 SYSTEM

Charles G Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/7 19 91

## RType: L1.52

[illegible]

<input type="checkbox"/> Hydrostatic Pressure	<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Nominal Operating Pressure	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other
		US: Test Temp		48

Job Number

E21-MWR237757

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R176:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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] Mgr Maint FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/7/91 to 6/7/91, 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 SYSTEM

[Signature] Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/7 19 91



Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number E21-MW23775		Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbis, AL 36319	Unit FNP 1
		Date April 12, 1991

3. Work Performed By	Type Code Symbol Stamp
Name: <u>Alabama Power Company Maintenance Department</u>	N/A
Address: <u>Joseph M. Farley Nuclear Plant</u>	Authorization Number N/A
	Expiration Date N/A

4. Identification Of System  
Safety Injection System

5.  
(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Pipe Hanger	Daniel Const. Co.	Mark No. SI-R223	N/A	Component No. H1197	1986	Repaired	No

7. Description Of Work

Snubber SI-R223B was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
PSI Test Temp      °F



Job Number

E21-MWR237775

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R223B:

Tapered pivot pin assembly - MIF 91 043599

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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] Mag McInt FNP Date May 15, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMWRIGHT MUTUAL INSURANCE CO. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/23/91 to 5/23/91, 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 SYSTEM

[Signature] Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/23 1991

## Rtype: L1.52

#### 4. Identification Of System

5.

6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

## 8. Tests Conducted

Form 5-3976 3-38

Job Number

E21-MWR237776

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R228:

Load stud - MIF 91 045019

Load stud nut (2 each) - MIF 91 045033

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 *M. J. M. J.* Mar Maint FNP Date May 15, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMORAT MUTUAL Insurance Co. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/21/91 to 5/21/91 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 SYSTEM

*Charles G. Ward* Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/21 1991

## RType: L1.52

E21-MWR237781

Sheet 1 of 2

Alabama Power Company  
890 North 18th Street  
Birmingham, AL 35291

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

END 1

April 12, 1991

Type	Code	Symbol	Stamp
1	1	1	1
2	2	2	2
3	3	3	3
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5	5	5	5
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92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

N/A

Name: Alabama Power Company Maintenance Department

Authorization Number

N/A

Address: Joseph M. Farley Nuclear Plant

Expiration Date \_\_\_\_\_

N/A

#### 4. Identification Of System

### Safety Injection System

5.

(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda,      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case     

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)
Pipe Hanger	Daniel Const. Co.	Mark No. SI-R236	N/A	Component No. H1508	1966	Repaired	No

7. Description Of Work

Snubber SI-E236A was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

☐ Hydrostatic Pressure    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other



Job Number

E21-MWR237781

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R236A:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 Mar Mbiat FNP Date May 15, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by AMERICAN MUTUAL INSURANCE CO \* of ANDOVER MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/11/91 to 6/11/91, 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 SYSTEM

Charles G. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/11 19 91



## RType: L1.52

[illegible]

## Form 5-3974 3/88

Job Number

E21-MWR237782

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R236B:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 McMahon McMahon FNP Date May 15, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by APPROPRIATE MUTUAL INSURANCE CO. of NEWBORN, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/11/91 to 6/11/91, 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 SYSTEM

Charles J. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/11 19 91

## 1

RType: L1.52

		Job Number	821-MWR237797	Sheet 1 of 2
1. Owner	2. Plant	Unit		
Alabama Power Company 600 North 18th Street Birmingham, AL 35291	Farley Nuclear Plant Highway 95 South Columbia, AL 36319	FNP 1		
		Date		April 4, 1991
3. Work Performed By		Type Code Symbol Stamp		
Name: Alabama Power Company Maintenance Department		Authorization Number	N/A	
Address: Joseph M. Farley Nuclear Plant		Expiration Date	N/A	

#### 4. Identification Of System

### Safety Injection System

## 9.

(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda,      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case     

## 6. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

## 7. Description Of Work

Snubber SI-R266 was removed from support by Fluor Constructors, tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
 Pressure    PSI    Test Temp    °F

Job Number

E21-MWR237797

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R266:

Load stud - MIF 91 042112

Load stud nut (2 each) - MIF 91 042112

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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

Mr. Thomas Mr. McInt Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMERSON MUTUAL INSURANCE CO. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/13/91 to 6/18/91, 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 SYSTEM

Thomas G. Howard Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/13 19 91

## RType: L1.52

#### 4. Identification Of System

8.

5. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

### 8. Tests Conducted

Form 5-3076 3/88



Job Number

E21-MWR237810

Sheet 2 of 2

\* Remarks (Applicable Manufacturer's Data Reports To Be Attached):

The following code part(s) was/were replaced on snubber support CVCS-B494A:

Load stud nut - MIF 91 038913

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 [Signature] Mont Mar FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by SEAWORTHY MUTUAL INSURANCE CO\* of NORFOLK, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/24/91 to 5/24/91, 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] Commissions GR-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/24 19 91

## KType: 11.52

Sheet 1 of 1

12654

FNP 1

Date \_\_\_\_\_

May 17, 1981

Type	Code	Symbol	Stamp
1	1	1	1
2	2	2	2
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N/A

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46-47

Expiration Date

444

### Steam Generator

1

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

Manway Bolt	Westinghouse	S/G Serial 1421	68-85	S/G TPNS Q1B21H001A	1972	Replaced	No
-------------	--------------	-----------------	-------	---------------------	------	----------	----

Manway Bolt	Vitco	Heat Code AGA	N/A	P.O. QP-2928	1988	Replacement	No
-------------	-------	---------------	-----	--------------	------	-------------	----

## V. Description Of Work

Replaced one secondary side manway cover bolt with a new bolt on steam generator QIB21H001A (No. 1 bolt on cold leg manway).  
Ref: MIF S1 048440.

### 8. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☒ Nominal Operating Pressure    ☐ None    ☐ Other  
Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ F

Job Number

B21-MWR228780

Sheet 2 of 2

D. Remarks (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/ASigned H. N. Yarbrough for Jim Thomas Date 7/8 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ACTUARIAL SOUTHSIDE INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/9/91 to 7/9/91 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.

Charles E. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7/9 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number E11-MWR195514		Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1  Date May 11, 1991
3. Work Performed By  Name: <u>Alabama Power Company Maintenance Department</u>  Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A  Authorization Number N/A  Expiration Date N/A

4. Identification Of System

Residual Heat Removal System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Relief Valve	Crosby Valve Co.	N55222-00-0006	N/A	P.O. FNP-2	1973	Replaced	No
Relief Valve	Crosby Valve Co.	N55222-00-0009	N/A	P.O. 38068	1986	Replacement	No

7. Description Of Work

Replaced existing valve Q1E11V015A with new valve due to repeated failures of surveillance test. Ref: MIF 91 040438.

8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic Pressure ☒ Nominal Operating Pressure ☐ None ☐ Other  
PSI Test Temp \_\_\_\_\_ °F.

Job Number

E11-MWR195514

Sheet 2 of 2

B. Remarks (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/ASigned H. J. Yarbrough for Jim Thomas Date 7/10, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASSACHUSETTS and Employed by ARMSTRONG AUTOMATIC INSURANCE CO. of WILLOW, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/5/91 to 7/15/91, 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 SYSTEM

Charles G. Ward  
Inspector's Signature

Commissions 6A-00328  
National Board, State, Province, and Endorsements

Date 7/15 19 91



Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

		Job Number E11-MWR205315	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1	Date May 11, 1991
3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A	Authorization Number N/A
		Expiration Date N/A	

4. Identification Of System

Residual Heat Removal System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Studs	Texas Bolt Co.	Heat Code B044	N/A	Daniel 7047-Q-62276	1973	Replaced	No
Hex Nuts	Texas Bolt Co.	Heat Code B058	N/A	Daniel 7047-Q-62276	1973	Replaced	No
Studs	Texas Bolt Co.	Heat Code B094	N/A	Daniel 7047-Q-62672	1974	Replacement	No
Hex Nuts	Texas Bolt Co.	Heat Code CH59	N/A	Daniel 7047-Q-63316	1975	Replacement	No

7. Description Of Work

Installed new studs and nuts in flange connection of flow element Q1E11FR0602A due to improper thread engagement of existing studs. Ref: MIF 91 040397.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F.

Job Number

E11-MWR205315

Sheet 2 of 2

D. Remarks (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/ASigned J. J. Murd Mgr. Maint. FWP Date June 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/25/91 to 7/8/91, 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 INITIAL SYSTEMCharles G. Ward  
Inspector's Signature

Commissions

GA-60728

National Board, State, Province, and Endorsements

Date 7/2 1991

## RType: 11 52

KType: 51-52

[illegible]

Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None ☐ Other ☐  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F

Job Number

E11-MWR220219

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RHR-R85:

Pivot pin - MIF 91 045371

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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] Mgr Maint FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by WRIGHT MUTUAL INSURANCE Co. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/6/91 to 6/6/91, 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 545201

[Signature] Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/6 1991

## RTtype: L1.52

6. Identification Of Components Repaired Or Replaced and Replacement Components:[illegible]

Snubber SI-R100 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
 Pressure    PSI    Test Temp



Job Number

E11-MWR237729

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R100:

Pivot pin - NIF 91 040764

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 [Signature] Mar Maint Date May 20 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO\* of ANDOVER, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/4/91 to 6/4/91, 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] Commissions GA-00321  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/4 19 91

## KType: L1.52

Sheet 1 of 2

April 4, 1991

N/A

### Safety Injection System

6. Identification Of Components Repaired Or Replaced and Replacement Components:

Pipe Hanger	Daniel Const. Co.	Mark No.	SI-R107	N/A	Component No.	H1423	1986	Repaired	No
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Form 5-3976 3/88

Job Number

E11-MWR237730

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-E107:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 Mar Maint FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of BERGIE and Employed by BERGIE MUTUAL INSURANCE Co\* of BERGIE, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/3/91 to 6/3/91 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 SYSTEM

Charles E. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/3 19 91

## KType: L1.52

6. Identification Of Components Repaired Or Replaced and Replacement Components:Form 5-3876 3/66

Job Number

E11-MWR237760

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R164:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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 *M. Blum* *Mgr Maint* Date *May 14*, 19*91*  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG AUTOMATIC SYSTEMS Co\* of ANDOVER, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/14/91 to 6/14/91 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 AUTOMATIC SYSTEM

*Charles G. Glendon* Commissions *GA-00328*  
Inspector's Signature National Board, State, Province, and Endorsements

Date *6/14* 19*91*



## 2

1. Overview

## 2. Plant

Job Number

Sheet 1 of 2

Unit 1

FNP 1

Date \_\_\_\_\_

April 2, 1991

### 3. Work Performed By

Type	Code	Symbol	Stance
1	1	1	1
2	2	2	2
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N/A

Authorization Number

N/A

Expiration Date

## 附录

#### 4. Identification Of System

### Safety Injection System

8

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

### 8. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ °F

Job Number

E11-NWR237761

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-E185:

Load stud - MIF 91 038912

Load stud nut (2 each) - MIF 91 041294

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

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

Signed

*McMahon**Mar Maia*Date May 14, 1991

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO. of WELLS, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/14/91 to 6/14/91, 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 SYSTEM

*Charles J. Ward*  
Inspector's SignatureCommissions GA-00328

National Board, State, Province, and Endorsements

Date 6/14 1991

## RType: L1.62

[illegible]

Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other ☐  
 Test Temp ☐

Job Number

E11-MWR237769

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached):

The following code part(s) was/were replaced on snubber support SI-R203:

Load stud nut - MIF 91 042103

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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 Mac Maint FNP Date May 15, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG AUTOMATIC INSURANCE CO. \* of WORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/23/91 to 6/23/91, 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 AUTOMATIC SYSTEM

Charles J. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/23 1991

## RTtype: L1.52

Form 5-3876 3/88



Job Number

E11-MWR237770

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support S1-R206B:

Plunger - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 Mac Muiat FNP Date May 15, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT MUTUAL INSURANCE Co\* of ALBUQUERQUE, NEW MEXICO have inspected the components described in this Owner's Report during the period 5/23/91 to 5/23/91, 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 SYSTEM

Charles E. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/23 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

		Job Number	E11-MWR237800	Sheet 1 of 2
1. Owner	2. Plant	Unit	FNP 1	
Alabama Power Company 600 North 18th Street Birmingham, AL 35291	Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Date	March 31, 1991	
3. Work Performed By		Type Code Symbol Stamp	N/A	
Name: <u>Alabama Power Company Maintenance Department</u>		Authorization Number	N/A	
Address: <u>Joseph M. Farley Nuclear Plant</u>		Expiration Date	N/A	

#### 4. Identification Of System

### Safety Injection System

9.

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition Summer 83 Addenda, N/A Code Case

8. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

## 7. Description Of Work

Snubber SI-R292 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F

Job Number

E11-MWR237800

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-E292:

Plunger - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M. J. Hupman Mgr. Maint Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by BRUNNEN & SUTHERLAND INSURANCE CO. \* of NEWTON, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/17/91 to 6/18/91, 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 SYSTEM

Inspector's Signature Charles E. Ward Commissions GA-00328  
National Board, State, Province, and EndorsementsDate 6/13 19 91

## KType: L1.52

Job Number

E11-MWR237865

Sheet 1 of 2

1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

2. **Plus**

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36819

1301

FNP 1

**Data**

March 31, 1991

### 2. Work Performed By

Type	Code	Symbol	Stamp
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Name: Alabama Power Company Maintenance Department

64

[illegible]

Address: \_\_\_\_\_ Joseph M. Farley Nuclear Plant

428

Expiration Date

N/A

#### 4. Identification Of System

### Residual Heat Removal System

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda      Code Case

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

## 7. Description Of Work

Snubber RHR6-R70 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other ☐  
Test Temp ☐

Job Number

E11-MWR237865

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RHR6-R70:

Plunger (2 each) - MIF 91 038335

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M. J. Shaw Mgr Maint ENR Date May 20, 1991

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE Co\* of NORFOLK, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/6/91 to 6/6/91 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 SYSTEM

Charles G. Ward  
 Inspector's Signature

Commissions GA-00328  
 National Board, State, Province, and Endorsements

Date 6/6 1991



## KType: L1\_52

KType: L1\_52

Form 5-3976 3/88

Job Number

E11-MWR237866

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support RHR-R84:

Piston/piston rod assembly - MIF 91 040479

\* Pipe hanger was designed to AISC requirement and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 J. J. Shurt Mgr Maint FNP Date May 20 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT MUTUAL INSURANCE Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/6/91 to 6/6/91 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 SYSTEM

Charles J. Howard Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/6 19 91

**Form NIS-2 Owner's Report For Repairs Or Replacements**  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

1. Owner <b>Alabama Power Company</b> <b>600 North 18th Street</b> <b>Birmingham, AL 35291</b>		2. Plant <b>Farrington Nuclear Plant</b> <b>Highway 95 South</b> <b>Columbia, AL 36319</b>		Job Number <b>E11 PCN 6493</b>	Sheet 1 of 2
3. Work Performed By Name: <b>APCo Plant Modifications</b>		Type Code Symbol Stamp <b>N/A</b>		Unit <b>FNP 1</b>	
Address: <b>Highway 95 South, Columbia, AL 36319</b>		Authorization Number <b>N/A</b>		Date <b>5/8/91</b>	
		Expiration Date <b>N/A</b>			

#### 4. Identification Of System

Residual Heat Removal/Low Head Safety Injection

5 (a) Applicable Construction Code: \_\_\_\_\_, 19 \_\_\_\_ Edition: \_\_\_\_ Addenda: N/A Code Case: \_\_\_\_\_  
 (b) Applicable Section XI Utilized For Repairs Or Replacements: 19 83 Edition: SUM 83 Addenda: N/A Code Case: \_\_\_\_\_  
 \*Supports designed to AISC 1969 and welded to AWS requirements.

## 6. Identification Of Components Repaired Or Replaced and Replacement Components

[illegible]

## 7. Description Of Work.

SS-600 was modified per W.O. # SS-600 and PCN B90-1-6493.

### B. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
 Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ °F

## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

Job Number

E11 PCN 6493

Sheet

2

of

2

Remarks (Applicable Manufacturer's Data Reports To Be Attached)

See W.O. # SS-600 and MWR 232040 for implementation documentation.

## 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.

Type Code Symbol Stan-p NACertificate of Authorization No. NAExpiration Date NASigned Ron Coleman / Mark A. D.Date 5-11- 19 91

Owner or Owner's Designee, Title

## Certificate Of 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 GEORGIA and Employed by ARMWRIGHT MUTUAL INSURANCE COMPANY of WORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 2/28/91 to 5/19/91 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 SYSTEM

Charles J. Ward  
Inspector's Signature

Commissions 62-0328

National Board, State, Province, and Endorsements

Date 5/15 19 91

As Required By The Provisions Of The ASME Code Section XI

Job Number	E13 PCN 6493	Sheet	1	of	2
r Plant outh 36319	Unit	FNP 1			
	Date	5/8/51			

1. Owner  
Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

Unit  
FNP 1

5/8/51

### 3. Work Performed By

Name: APCo Plant Modifications

Address: Highway 95 South, Columbia, AL 36319

Type Code Symbol Stamp

N/A

Authorization Number

N/A

Expiration Date

N/A

#### 4. Identification Of System

## Containment Spray

5 (a) Applicable Construction Code: \_\_\_\_\_, 19 \_\_\_\_ Edition: \_\_\_\_ Addenda: N/A Code Case \_\_\_\_\_  
 (b) Applicable Section X: Utilized For Repairs Or Replacements, 19 83 Edition: SUM 83 Addenda: N/A Code Case \_\_\_\_\_  
 \*Support designed to AISC 1969 and welded to AWS requirements.

6. Identification Of Components Repaired Or Replaced and Replacement Components

[illegible]

## 7. Description Of Work

CS4-R132 and CS5-H18 were modified per W.O. # CS4-R132 and MWR 232035 and PCN B90-1-6493.

### B. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ °F



## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

Job Number

E13 PCN 6493

Sheet 2 of 2

6. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

See W. O. # CS4-R132 and MWR's 239056 and 232035 for implementation documentation.

## 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 NACertificate of Authorization No. NA Expiration Date NASigned Rm Coleman / mgr PMD Date 5-11- 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMWRIGHT MUTUAL INSURANCE COMPANY\* of ANDREWS, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 4/21/91 to 5/4/91, 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 SYSTEM

Inspector's Signature Charles J. Ward Commissions GA-00328  
National Board, State, Province, and EndorsementsDate 5/15 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

		Job Number E21-MWR217196	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FWP 1	Date May 1, 1990

3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
---	--

4. Identification Of System  
Chemical and Volume Control System

5.  
(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Plug assembly	Copes-Vulcan	8721-96288-2-1	N/A	P.O. QP-1721	1987	Replaced	Yes
Plug assembly	Copes-Vulcan	9021-96764-1-2	N/A	P.O. QP-3030	1990	Replacement	No

7. Description Of Work

Installed new plug assembly in valve Q1E21FCV122 due to binding of existing plug. Plug assembly consists of plug, stem, cage and roll pin. Ref: MIF 90 044304.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F.

Job Number

E21-MWR217196

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The replaced plug assembly was installed in valve Q1E21PCV122 by the Alabama Power Company Maintenance Department under  
HWR 158048A.

## 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] Mar Maint PNP Date May 22, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/9/91 to 7/9/91, 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 SYSTEM

[Signature]  
Inspector's Signature

Commissions GA-00328  
National Board, State, Province, and Endorsements

Date 7/9 1991

## RType: L1.52

### 3. Work Performed By

Address: Joseph M. Farley Nuclear Plant

Type Code Symbol Stamp

N/A

Authorization Number

N/A

Expiration Date

N/A

#### 4. Identification Of System

### Safety Injection System

1

(a) Applicable Construction Code: See Sheet 2, 19   Edition    Addenda,    Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19  83   Edition Summer 83 Addenda, N/A Code Case

## 8. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

Snubber SI-R308A was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

☐ Hydrostatic Pressure    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other



Job Number

E21-MWR230644

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-E308A:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 replacementType Code Symbol Stamp N/ACertificate of Authorization No. N/A Expiration Date N/ASigned W. Thomas Mr. Moist Date May 14, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL Insurance Co \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/12/91 to 6/12/91, 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 SYSTEM

Charles G. Ward  
Inspector's SignatureCommissions GA-00328  
National Board, State, Province, and EndorsementsDate 6/12 1991



## Rtype: L1.52

[illegible]

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other

Job Number

E21-MWR230645

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R308B:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 McMinn Mar McInt Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by BRAUNHART MUTUAL Insurance Co \* of ANDOVER, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/12/91 to 6/12/91, 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 SYSTEM

Charles G. Ward  
Inspector's SignatureCommissions GA-00328  
National Board, State, Province, and EndorsementsDate 6/12 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number

E21-MWR230658

Sheet 1 of 2

1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

Unit

FNP 1

Date

April 7, 1991

3. Work Performed By

Type Code Symbol Stamp

N/A

Name: Alabama Power Company Maintenance Department

Authorization Number

N/A

Address: Joseph M. Farley Nuclear Plant

Expiration Date

N/A

4. Identification Of System

Safety Injection System

5.

(a) Applicable Construction Code: \* See Sheet 2, 19\_\_ Edition \_\_\_\_, Addenda, \_\_\_\_, Code Case \_\_\_\_,  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19\_\_ 83 Edition Summer 83 Addenda, N/A Code Case

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)
Snubber	Pacific Scientific	663	N/A	Component No. M1642	1976	Replaced	No
Snubber	Pacific Scientific	36381	N/A	Component No. M3267	1988	Replacement	No

7. Description Of Work

Snubber SS-2954B was removed from support by Fluor Constructors, tested by Wyle Laboratories and, due to its degraded condition, was replaced with a new snubber. Ref: MIF 91 042715.

8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
PSI Test Temp \_\_\_\_ F.

Job Number

E21-MWR230658

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

In addition to the replacement of the snubber, the following code parts were replaced on support SS-2954B:

Load stud - MIF 91 043385

Load stud nut (2 each) - MIF 91 043385

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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/ASigned [Signature] Wgt Maint FNP Date May 22, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL Insurance Co.\* of NORWOOD MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/11/91 to 6/11/91, 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 SYSTEM

[Signature] Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/11 1991

## RType: L1.52

Form 5-3976 3/88



Job Number

E21-MWR232646

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support CVCS-R535:

Tapered load stud assembly - MIF 91 044745

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 \_\_\_\_\_ *M. J. Thoms* \_\_\_\_\_ *Mgr Maint FNP* \_\_\_\_\_ Date *May 20* 19 *91* \_\_\_\_\_  
 Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKRIGHT MUTUAL INSURANCE Co. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/24/91 to 5/24/91, 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 System

*Charles E. Ward* \_\_\_\_\_ Commissions GA-00328  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 5/24 19 91

## RType: L1.52

#### 4. Identification Of System

9

6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

### 8. Tests Conducted

Form 5-3976 3/88

Job Number

E21-MWR237752

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R168:

Orifice valve stem - MIF 91 043559

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 Mgr M. J. FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO\* of WORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/10/91 to 6/10/91, 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 SYSTEM

Charles E. Ward  
Inspector's Signature

Commissions GA-00328

National Board, State, Province, and Endorsements

Date 6/10 1991

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

		Job Number E21-MWR237753	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FWP 1	Date April 12, 1991
3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u>		Type Code Symbol Stamp N/A	
Address: <u>Joseph M. Farley Nuclear Plant</u>		Authorization Number N/A	
		Expiration Date N/A	

#### 4. Identification Of System

### Safety Injection System

## 8.

(a) Applicable Construction Code: \* See Sheet 2, 19      Edition      Addenda,      Code Case       
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case     

## 6. Identification Of Components Repaired Or Replaced and Replacement Components:

[illegible]

## 7. Description Of Work

Snubber SI-R169A was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

☐ Hydrostatic Pressure   
 ☐ Pneumatic   
 ☐ Nominal Operating Pressure   
 ☒ None   
 ☐ Other

Job Number

E21-MWR237753

Sheet 2 of 2

5. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R169A:

Tie rod - MIF 91 043495

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME Section III.

## 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 Mr. McInt FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by SAVANNAH MUTUAL Insurance Co \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/10/91 to 6/10/91, 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 SYSTEM

Charles E. Ward Commissions GA-00823  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/10 19 91



## Ktype: L1.52

Job Number

E21-MWR237754

Sheet 1 of 2

1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

Unit

END 1

Date \_\_\_\_\_

April 4, 1991

3. Work Performed By

Type Code Symbol Stamp

N/A

Name: Alabama Power Company Maintenance Department

Authorization Number

N/A

Address: \_\_\_\_\_ Joseph M. Farley Nuclear Plant

Expiration Date

N/A

#### 4. Identification Of System

### Safety Injection System

5

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
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Pipe Hanger	Daniel Const. Co.	Mark No.	SI-R171	N/A	Component No.	H1469	1986	Repaired	No
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## 7. Description Of Work

Snubber SI-R171 was removed from support by Fluor Constructors, tested, rebuilt and retested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

☐ Hydrostatic Pressure   
 ☐ Pneumatic   
 ☐ Nominal Operating Pressure   
 ☒ None   
 ☐ Other

Job Number

E21-MWR237754

Sheet 2 of 2

## 6. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R171:

Load stud - MIF 91 042437

Load stud nut (2 each) - MIF 91 042439

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 M. J. Maist FND Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO. of WORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/10/91 to 6/10/91, 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 SYSTEM

Charles J. Ward  
 Inspector's Signature

Commission GE-00328  
 National Board, State, Province, and Endorsements

Date 6/10 1991

## RType: L1.52

Job Number

E21-MWR237799

Sheet 1 of 2

1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

## 2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

Unit

FNP 1

Date \_\_\_\_\_

April 6, 1991

### 3. Work Performed By

Type Code Symbol Stamp

Name: Alabama Power Company Maintenance Department

N/A

Authorization Number

N/A

Address: \_\_\_\_\_ Joseph M. Farley Nuclear Plant

Expiration Date

N/A

#### 4. Identification Of System

### Safety Injection System

5

(a) Applicable Construction Code: \* See Sheet 2, 19     Edition      Addenda,      Code Case

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

Snubber SI-R286F was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other ☐  
PSI Test Temp \_\_\_\_\_

Job Number

E21-MWR237799

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SI-R286B:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M/ACertificate of Authorization No. M/A Expiration Date M/A

Signed M Thomas Mar McInt Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASSACHUSETTS and Employed by ARMSTRONG MUTUAL INSURANCE CO \* of ARMSTRONG, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/13/91 to 6/13/91, 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 System

Charles J Ward  
Inspector's Signature

Commissions 6A-00328  
National Board, State, Province, and Endorsements

Date 6/13 19 91





Job Number

E21-MWR237807

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support CVC-R264:

Pivot pin - MIF 91 037553

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 Mr. Mount FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT MUTUAL INSURANCE CO. \* of DORCHESTER, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/24/91 to 5/24/91, 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 METAL SYSTEM

Inspector's Signature Charles G. Ward Commissions GA-00328  
National Board, State, Province, and EndorsementsDate 5/24 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number E21-MWR238935		Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1 Date May 17, 1991
3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A

4. Identification Of System

Chemical and Volume Control System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Plug	Copes-Vulcan	8721-96288-1-4	N/A	P.O. QP-1721	1987	Replaced	Yes
Plug	Copes-Vulcan	8721-96288-1-3	N/A	P.O. QP-1721	1987	Replacement	Yes

7. Description Of Work

Installed new plug assembly in valve Q1E21V253A due to seat leakage during Local Leak Rate Test. Plug assembly consists of plug, stem cage and roll pin. Ref: MIF 91 043219.

8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
PSI Test Temp    °F

Job Number

E21-MWR238935

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The replaced plug assembly was originally installed under MWR 174205 by the Alabama Power Company Maintenance Department.

## 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/ASigned Mac Mount FNP Date June 20 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/26/91 to 6/26/91, 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 SYSTEM

Charles E. Ward  
Inspector's Signature

Commissions BN-60328  
National Board, State, Province, and Endorsements

Date 6/26 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RTyp: L1.52

		Job Number E21-MWR238936	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1	Date May 17, 1991
3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A	Authorisation Number N/A
		Expiration Date N/A	

4. Identification Of System

Chemical and Volume Control System

5.

- (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Plug	Copes-Vulcan	S/W 2	N/A	Valve TPNS Q1E21V253B	1972	Replaced	No
Plug	Copes-Vulcan	8721-96288-1-1	N/A	P.O. QP-1721	1987	Replacement	Yes

7. Description Of Work

Installed new plug assembly in valve Q1E21V253B due to seat leakage during Local Leak Rate Test. Plug assembly consists of plug, stem cage and roll pin. Ref: MIF 91 043220.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F.

Job Number

E21-MWR238936

Sheet 2 of 2

9. Remarks (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/ASigned [Signature] Mar Mount FNP Date June 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by Worcester Mutual Insurance Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/26/91 to 7/2/91, 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.

\*Fidelity Mutual Sydn

[Signature]  
Inspector's Signature

Commissions GA-00328  
National Board, State, Province, and Endorsements

Date 7/2 1991



Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number E21-MWR238937		Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1  Date May 17, 1991
3. Work Performed By  Name: <u>Alabama Power Company Maintenance Department</u>  Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A  Authorization Number N/A  Expiration Date N/A

4. Identification Of System

Chemical and Volume Control System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Plug	Copes-Vulcan	S/W 1	N/A	Valve TPNS Q1E21V253C	1972	Replaced	No
Plug	Copes-Vulcan	8721-96288-1-2	N/A	P.O. QP-1721	1987	Replacement	Yes

7. Description Of Work

Installed new plug assembly in valve Q1E21V253C due to seat leakage during Local Leak Rate Test. Plug assembly consists of plug, stem cage and roll pin. Ref: MIF 91 041948.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F.

Job Number

E21-MWR238937

Sheet 2 of 2

v. Remarks (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/ASigned [Signature] Mgr Maint PNP Date 6/20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Georgia and Employed by FACTORY MUTUAL INSURANCE CO. of WILMINGTON, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/25/91 to 6/25/91, 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 SYSTEM

[Signature]  
Inspector's Signature

Commissions GA-00828  
National Board, State, Province, and Endorsements

Date 6/25, 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number

E21-MWR239022

Sheet 1 of 2

1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1 Date May 4, 1991
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3. Work Performed By Name: Alabama Power Company Maintenance Department Address: Joseph M. Farley Nuclear Plant	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
---	--

4. Identification Of System  
Chemical and Volume Control System

5.  
(a) Applicable Construction Code: ASME Section III, 1971 Edition, Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition, Summer 83 Addenda, N/A Code Case

6. Identification Of Components Repaired Or Replaced and Replacement Components:

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)
Studs	Texas Bolt Co.	Heat Code DV5	N/A	Q1E21HCB-19-EG 368	1976	Replaced	No
Hex Nuts	Texas Bolt Co.	Heat Code DV32	N/A	Q1E21HCB-19-EG 368	1976	Replaced	No
Studs	Texas Bolt Co.	Heat Code MD16	N/A	P.O. QP-4089	1989	Replacement	No
Hex Nuts	Texas Bolt Co.	Heat Code HT47	N/A	Daniel 7071-Q-60804	1980	Replacement	No

7. Description Of Work

Replaced eight studs and sixteen nuts in flange connections for start-up strainer W1E21F009C due to corrosion of existing studs and nuts. Ref: MIF's 91 043187, 91 043737 and 91 10539.

8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
PSI Test Temp °F.

Job Number

E21-MWR239022

Sheet 2 of 2

9. Remarks (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/ASigned Mac Moint Date June 28, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/16/91 to 7/16/91 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.

\*FACTORY MUTUAL SYSTEM

Charles J. Williams  
Inspector's Signature

Commissions GA-00328  
National Board, State, Province, and Endorsements

Date 7/16 19 91

As Required By The Provisions Of The ASME Code Section XI

Job Number	E21 PCN 4131	Sheet 1 of 2
------------	--------------	--------------

1. Owner	Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant	Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit	FNP 1
				Date	6-21-90

3 Work performed By	Type Code Symbol Stamp
Name: APCo Plant Modifications	N/A
Address: Highway 95 South, Columbia, AL 36319	Authorization Number
	N/A
	Expiration Date
	N/A

6. (a) Applicable Construction Code: ASME III, 1971 Edition: SUM 71 Addenda: N/A Code Case: \_\_\_\_\_  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition: SUM 83 Addenda: N/A Code Case: \_\_\_\_\_

6. Identification Of Components Required 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)
Inboard Seal	Pacific Pump	N/A	N/A	HT-67953-149AE	1972	Replaced	No
Outboard Seal	Pacific Pump	N/A	N/A	HT-48671-5-AA HT-48671-3-AA	1972	Replaced	No
Inboard Seal	Pacific Pump	N/A	N/A	HT-M149S-AA	1990	Replacement	No
Outboard Seal	Pacific Pump	N/A	N/A	HT-2E299-AG	1990	Replacement	No
Inboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-AV	1990	Replacement	No
Inboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-AR	1990	Replacement	No
Inboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-BL	1990	Replacement	No
Inboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-AQ	1990	Replacement	No
Outboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-BR	1990	Replacement	No
Outboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-AK	1990	Replacement	No
Outboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-BO	1990	Replacement	No
Outboard Seal Bolting	Pacific Pump	N/A	N/A	HT-96794-AE	1990	Replacement	No

7. Description Of Work	Removed the inboard and outboard seal assemblies on the 1A charging pump Q1E21P002A-A per MWR 193238 and PCN B87-1-4131. Installed new inboard and outboard seal assemblies and bolting per MWR 193238.
------------------------	---

8. Tests Conducted

☐ Hydrostatic    ☐ Pneumatic    ☒ Nominal Operating Pressure    ☐ None    ☐ Other

Pressure \_\_\_\_\_ PSI    Test Temp \_\_\_\_\_ °F



## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

Job Number E21 PCN 4131	Sheet 2 of 2
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9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

Component modifications covered by this report are authorized by PCN B87-1-4131.

See PCN Bill of Materials for material issue forms.

## 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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

K M Coleman

Mgr PH Mod. Facilities

Date

10/5/90

19

90

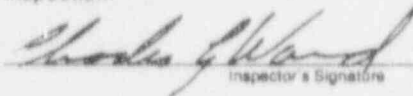
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of FLORIDA and Employed by ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 8/8/90 to 8/8/90 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 SYSTEM

Inspector's Signature

Commissions

PL 179

National Board, State, Province, and Endorsements

Date

10/85

19 90

# Form NIS-2 Owner's Report For Repairs Or Replacements

As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number E21 PCN 6493		Sheet 1 of 2
1. Owner <b>Alabama Power Company</b> 600 North 18th Street Birmingham, AL 35291	2. Plant <b>Farley Nuclear Plant</b> Highway 95 South Columbia, AL 36319	Unit FNP 1
		Date 5/8/91

3. Work Performed By Name: <u>APCo Plant Modifications</u> Address: <u>Highway 95 South, Columbia, AL 36319</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
---	--

4. Identification Of System  
High Head Safety Injection/Chemical and Volume Control

5. (a) Applicable Construction Code: \* 19 -- Edition --- Addenda N/A Code Case ---  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition SUM 83 Addenda N/A Code Case ---  
\*Support designed to AISC 1969 and welded to AWS requirements.

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)
Support	Daniel Const.	E21 PCN 6493	N/A	CVC-R61	1977	Replaced	No
Support	APCo	E21 PCN 6493	N/A	CVC-R36	1991	Replacement	No
Support	APCo	E21 PCN 6493	N/A	SI-R30	1991	Replacement	No
Support	Daniel Const.	E21 PCN 6493	N/A	SS-656	1977	Replaced	No
Support	APCo	E21 PCN 6493	N/A	SS-656	1991	Replacement	No
Support	Daniel Const.	E21 PCN 6493	N/A	SS-663	1977	Replaced	No
Support	APCo	E21 PCN 6493	N/A	SS-663	1991	Replacement	No
Support	Daniel Const.	E21 PCN 6493	N/A	SS-665	1977	Replaced	No
Support	APCo	E21 PCN 6493	N/A	SS-665	1991	Replacement	No
Support	Daniel Const.	E21 PCN 6493	N/A	SS-2080	1977	Replaced	No
Support	APCo	E21 PCN 6493	N/A	SS-2080	1991	Replacement	No
Support	Daniel Const.	E21 PCN 6493	N/A	CVC-R42	1977	Replaced	No
Support	APCo	E21 PCN 6493	N/A	CVC-R42	1991	Replacement	No
Support	APCo	E21 PCN 6493	N/A	SS-2672	1991	Replacement	No

7. Description Of Work  
CVC-R61 is deleted with the exception of the stanchions attached to the 4" CCB-15 pipe per PCN B90-1-6493 and W.O. # CVC R61. CVC-R36, SI-R30, SS-656, SS-663, SS-665, SS-2080, CVC-R42, and SS-2672 were modified per W.O. #'s CVC-R36, SI-R30, SS-656, SS-663, SS-665, SS-2080, CVC-R42, and SS-2672 and PCN B90-1-6493.

8. Tests Conducted  
☐ Hydrostatic Pressure ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
 PSI Test Temp --- °F

## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

Job Number

E21 PCN 6493

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

See W.O. #'s CVC-R61, CVC-R36, SI-R30, SS-656, SS-663, SS-665, SS-2080,  
CVC-R42, and SS-2672, and MWR 231955 for implementation documentation.

## 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.  
report or replacement

Type Code Symbol Stamp NACertificate of Authorization No. NAExpiration Date NASigned Rm Gibson / mgc Pnd  
Owner or Owner's Designee TitleDate 5-11- 19 91

## 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 GEORGIA and Employed by BROWNSHAW MUTUAL INSURANCE COMPANY of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 2/22/91 to 5/9/91 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 SYSTEM

Charles E. Ward  
Inspector's SignatureCommissions GA-00328National Board, State, Province, and EndorsementsDate 5/15 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

Type: L1.52

Job Number G21-MWR234918		Sheet 1 of 2
1. Owner Alabama Power Company 800 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1  Date April 16, 1991

3. Work Performed By  Name: <u>Alabama Power Company Maintenance Department</u>  Address: <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A  Authorization Number N/A  Expiration Date N/A
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4. Identification Of System

Liquid Waste Disposal System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Plug assembly	Copes-Vulcan	8621-96761-1-3	N/A	P.O. QP-0512	1986	Replaced	Yes
Plug assembly	Copes-Vulcan	9021-96435-2-1	N/A	P.O. QP-422v	1990	Replacement	No

7. Description Of Work

Installed new plug assembly in valve Q1621V064 (LCV1003) due to damage of existing plug caused by foreign material in seating area. Plug assembly consists of plug, stem, cage and roll pin. Ref: MIF 91 043871.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure PSI Test Temp °F

Job Number

G21-MWR234918

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The replaced plug assembly was installed by the Alabama Power Company Maintenance Department under MWR 170621.

## 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/ASigned McLendon Mar Mount FNP Date May 72 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/8/91 to 7/8/91, 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 ORIGINAL SYSTEM

Charles G. Ward  
Inspector's Signature

Commissions GA-00328

National Board, State, Province, and Endorsements

Date 7/8 1991



## KType: L1.52

[illegible]

☐ Hydrostatic Pressure   
 ☐ Pneumatic   
 ☐ Nominal Operating Pressure   
 ☒ None   
 ☐ Other

Job Number

G24-MWR230666

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SS-4462:

Load stud - MIF 91 039685

Load stud nut (2 each) - MIF 91 039685

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using serial traceability requirements of ASME

Section III.

## 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 McMahon Mar Mait Date May 14, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE Co \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/24/91 to 6/24/91, 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 System

Charles G Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/24 1991

## KType: L1.52

[illegible]

☐ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F

Job Number

G24-MWR230671

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SS-4567C:

Load stud - MIF 91 038557

Load stud nut (4 each) - MIF 91 038557

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 Mar Wain Date May 14, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE COMPANY of ARMSTRONG, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/24/91 to 6/24/91, 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 SYSTEM

Charles G. Ward  
Inspector's Signature

Commissions GA-00328

National Board, State, Province, and Endorsements

Date 6/24 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.5.

Job Number N11-MWR202058		Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FWP 1 Date May 21, 1991

3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>	Type Code Symbol Stamp N/A Authorization Number N/A Expiration Date N/A
---	--

4. Identification Of System  
Main Steam System

5.  
(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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 Plug	Fisher	BR8571-1	N/A	P.O. QP-0575	1986	Replaced	Yes
Primary Plug	Fisher	BC4865-4	N/A	P.O. 40525	1986	Replacement	Yes

7. Description Of Work  
Installed new primary plug in valve Q1N11PV3371C due to seat leakage. Ref: MIF 91 044343.

8. Tests Conducted  
☐ Hydrostatic Pressure ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
 PSI Test Temp    F.



Job Number

N11-HWR202058

Sheet 2 of 2

9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The replaced plug assembly was originally installed by the Alabama Power Company Maintenance

Department under HWR 94296.

## 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]**Mar McInt*Date June 29, 1991

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/16/91 to 7/16/91, 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.

\*FACTORY MUTUAL SYSTEM

*[Signature]*  
 Inspector's Signature

Commissions SA-00328 IN  
 National Board, State, Province, and Endorsements

Date 7/16 1991

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

		Job Number N11-MWR227600	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1	Date May 31, 1991

3. Work Performed By

Name: Alabama Power Company Maintenance Department

Address: Joseph M. Farley Nuclear Plant

Type Code Symbol Stamp

N/A

Authorization Number

N/A

Expiration Date

N/A

4. Identification Of System

Main Steam System

5.

- (a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Disc Assembly	Attwood & Morrill	S/N 2-340	N/A	Valve TPNS Q1N11V001A	1973	Replaced	No
Disc Assembly	Attwood & Morrill	S/N 2-30910-16	N/A	P.O. 38053	1985	Replacement	No

7. Description Of Work

Replaced disc assembly in valve Q1N11V001A with a refurbished disc assembly. Ref: MIF 91 047397.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F

Job Number

N11-MWR227600

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The replacement disc was refurbished by Attwood and Morrill under purchase order 38053.

## 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 Mac Mount FNP Date June 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL Insurance Co\* of ANDREWS, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/8/91 to 7/8/91, 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.

~~3~~ FACTORY INITIAL SYSTEM

Charles J. Ward Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7/8 1991

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section II

RType: L1.52

		Job Number N11-MWR236844	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1	Date May 17, 1991

3. Work Performed By

Name: Alabama Power Company Maintenance Department

Address: Joseph M. Farley Nuclear Plant

Type Code Symbol Stamp

N/A

Authorization Number

N/A

Expiration Date

N/A

4. Identification Of System

Main Steam System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case

(b) Applicable Section II Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Safety Valve	Dresser	BP-09803	N/A	P.O. FNP-316	1974	Replaced	Yes
Studs	Energy Steel	Heat Code G26	N/A	P.O. QP-1185	1986	Replaced	No
Hex Nuts	Energy Steel	Heat Code OR70	N/A	P.O. QP-1185	1986	Replaced	No
Safety Valve	Dresser	BP-09828	N/A	P.O. QP-0089	1986	Replacement	No
Studs	Nova Machine	Heat # 8094962	N/A	P.O. QP-5055	1990	Replacement	No
Nuts	Cardinal	Heat Code R2	N/A	P.O. QP-4204	1989	Replacement	No

7. Description Of Work

Main Steam Safety Valve Q1N11V010B was removed to connect a cooldown hose to Main Steam header. Valve was replaced with a refurbished valve due to seat leakage. Also replaced header flange studs and nuts. Ref: MIF's 91 045998 & 91 047129.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F.

Job Number

N11-MWR236844

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The replaced studs and nuts were installed by Fluor Constructors under MWR 136368.

The replacement valve was refurbished by Dresser Valve Company under purchase order QP-0089.

## 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/ASigned Mar Mart FNP Date June 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by FACTORY MUTUAL INSURANCE CO. # of WILMINGTON, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/26/91 to 6/26/91, 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 SIGNATURE

Charles J. Ward  
Inspector's Signature

Commissions 60-00329

National Board, State, Province, and Endorsements

Date 6/26 19 91



Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

		Job Number N11-MWR236845	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FNP 1	Date May 17, 1991
3. Work Performed By Name: <u>Alabama Power Company Maintenance Department</u> Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A	Authorization Number N/A
		Expiration Date N/A	

4. Identification Of System

Main Steam System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

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)
Studs	Cardinal	Heat Code D5	N/A	P.O. QP-4204	1989	Replaced	No
Hex Nuts	Cardinal	Heat Code E2	N/A	P.O. QP-4204	1989	Replaced	No
Studs	Nova Machine	Heat # 8094962	N/A	P.O. QP-5055	1990	Replacement	No
Hex Nuts	Cardinal	Heat Code E2	N/A	P.O. QP-4204	1989	Replacement	No

7. Description Of Work

Main Steam Safety Valve Q1N11V011E was removed to connect a cooldown hose to the Main Steam Header. Valve was re-installed using new studs and nuts at the header flange connection. Ref: MIF 91 047130.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F.

Job Number

N11-MWR236845

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attach. )

The replaced studs and nuts were installed by Fluor Constructors under MWR 198639.

## 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/ASigned Mar Masat FNP Date June 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MASSACHUSETTS and Employed by FACTORY MUTUAL Insurance Co\* of WILLOW, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/25/91 to 6/25/91 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.

Charles G. Ward  
Inspector's Signature

Commissions 6A-00328  
National Board, State, Province, and Endorsements

Date 6/25 1991

## Form NIS-2 Owner's Report For Repairs Or Replacements

RType: L1.52

As Required By The Provisions Of The ASME Code Section XI

		Job Number N11-NWR236846	Sheet 1 of 2
1. Owner Alabama Power Company 600 North 18th Street Birmingham, AL 35291	2. Plant Farley Nuclear Plant Highway 95 South Columbia, AL 36319	Unit FWP 1	Date May 17, 1991
3. Work Performed By  Name: <u>Alabama Power Company Maintenance Department</u>  Address: <u>Joseph M. Farley Nuclear Plant</u>		Type Code Symbol Stamp N/A  Authorization Number N/A  Expiration Date N/A	

## 4. Identification Of System

Main Steam System

5.

(a) Applicable Construction Code: ASME Section III, 19 71 Edition Summer 71 Addenda, N/A Code Case  
 (b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

## 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)
Safety Valve	Dresser	BP-09814	N/A	P.O. FWP-316	1974	Replaced	Yes
Studs (6)	Cardinal	Heat Code A7	N/A	P.O. QP-4204	1989	Replaced	No
Studs (6)	Cardinal	Heat Code D5	N/A	P.O. QP-4204	1989	Replaced	No
Nuts (24)	Cardinal	Heat Code R2	N/A	P.O. QP-4204	1989	Replaced	No
Safety Valve	Dresser	BP-09807	N/A	P.O. QP-1169	1987	Replacement	No
Studs (12)	Nova Machine	Heat # 8094962	N/A	P.O. QP-5055	1990	Replacement	No
Nuts (24)	Cardinal	Heat Code A7	N/A	P.O. QP-4204	1989	Replacement	No

## 7. Description Of Work

Main Steam Safety Valve Q1N11V012K was removed to connect a cooldown hose to Main Steam header. Valve was replaced with a refurbished valve due to seat leakage. Also replaced header flange studs and nuts. Ref: MIF 91 047132.

## 8. Tests Conducted

☐ Hydrostatic Pressure ☐ Pneumatic Pressure ☒ Nominal Operating Pressure ☐ None ☐ Other  
 PSI Test Temp \_\_\_\_\_ °F.

Job Number

N11-MWR236846

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The replaced studs and nuts were installed by Fluor Constructors under MWR 198640.

The replacement valve was refurbished by Dresser Field Service Representatives with Wyle Laboratories assistance under Wyle purchase order QP-1169.

## 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]**Mr. Mont FNP*Date June 20, 19 91

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE Co\* of ARMSTRONG, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/26/91 to 6/26/91, 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

*[Signature]*  
Inspector's Signature

Commissions GA-00328

National Board, State, Province, and Endorsements

Date 6/26 19 91

## KType: L1.52

Form 5-3976 3/88



Job Number

N11-MWR237817

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support MS3-R5A:

Load stud nut - MIF 91 044906

Cylinder - MIF 91 039327

Velocity set screw nut - used nut from snubber serial number 14368

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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] Mgr Maint FNP Date May 20, 1991  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT MUTUAL INSURANCE CO \* of NORFOLK, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/24/91 to 5/24/91, 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 SYSTEM

[Signature]  
 Inspector's Signature

Commissions GA-00328  
 National Board, State, Province, and Endorsements

Date 5/24 1991

## 2

As Required By The Provisions Of The ASME Code Section XI

[illegible]

Snubber MS3-R5B was removed from hanger by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other

Job Number

N11-MWR237818

Sheet 2 of 2

G. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support MS3-R5B:

Pivot pin - MIF 91 038562

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 Mar Mount FNP Date May 20 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARTWRIGHT MUTUAL Insurance Co. \* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 5/21/91 to 5/21/91, 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 System

Charles G. Ward Commissions 68-00728  
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/21 19 91

## RType: L1.52

[illegible]

## Form 5-3876 3/88

Job Number

N11-MWR237820

Sheet 2 of 2

B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support MS5-E16A:

Cylinder - MIF 91 039328

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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/ASigner: [Signature] Mgr Maint FNP Date May 20, 19 91

Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/4/91 to 6/4/91, 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 MATED SYSTEM

[Signature]  
Inspector's SignatureCommissions 6A-00328  
National Board, State, Province and EndorsementsDate 6/4 19 91



## RType: L1.52

4. Identification Of System

### Main Steam System

5

6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

### 8. Tests Conducted

Form 5-3976 3/88

Job Number

N11-MWR237822

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support NS-R74:

Hex head cap screw (6 each) - MIF 91 044925

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

Section III.

## 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 M. J. Shaw Mgr Maint FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARKWRIGHT MUTUAL INSURANCE Co\* of NORWICH, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/4/91 to 6/4/91, 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 SYSTEM

Charles G. Ward  
Inspector's Signature

Commission GA-06328  
National Board, State, Province, and Endorsements

Date 6/4 19 91

## RType: L1.52

### 8. Work Performed By

Address: Joseph M. Farley Nuclear Plant

Type Code Symbol Stamp

N/A

Authorisation Number

N/A

Expiration Date

N/A

#### 4. Identification Of System

### Main Steam System

9.

(b) Applicable Section XI Utilized For Repairs Or Replacements, 19 83 Edition Summer 83 Addenda, N/A Code Case

## 6. Identification Of Components Repaired Or Replaced and Replacement Components:

## 7. Description Of Work

Snubber MS-R82 was removed from support by Fluor Constructors, rebuilt and tested by Wyle Laboratories and re-installed by Fluor under contract to Alabama Power Company.

### 8. Tests Conducted

<input type="checkbox"/> Hydrostatic Pressure	<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Nominal Operating Pressure	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other
Test Temp 50		48		

Job Number

N11-MWR237823

Sheet 2 of 2

## B. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support MS-R82:

Plunger (2 each) - MIF 91 041727

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 Mar Maint FNP Date May 20, 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL Insurance Co\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/4/91 to 6/4/91, 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 certifi. I 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 SYSTEM

Charles E. Ward  
Inspector's Signature

Commissions EA-00328

National Board, State, Province, and Endorsements

Date 6/4 19 91

## RType: L1.52

[illegible]

☐ Hydrostatic    ☐ Pneumatic    ☐ Nominal Operating Pressure    ☒ None    ☐ Other  
Pressure    PSI    Test Temp    °F



Job Number

N12-MWR230679

Sheet 2 of 2

## 9. Remarks (Applicable Manufacturer's Data Reports To Be Attached)

The following code part(s) was/were replaced on snubber support SS-5128:

Load stud - MIF 91 037548

Load stud nut (2 each) - MIF 91 037548

Pivot pin - MIF 91 037548

\* Pipe hanger was designed to AISC requirements and welded to AWS requirements using material traceability requirements of ASME

## Section III.

## 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 *M. J. Shum* *Mgr Maint* Date *May 14*, 19 *91*  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG ATOMICAL INDUSTRIAL CO. of  
ANDOVER, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 6/24/91 to 6/24/91, 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 SYSTEM

*Charles J. Ward* Commissions GA-00328  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/24 19 91

Form NIS-2 Owner's Report For Repairs Or Replacements  
As Required By The Provisions Of The ASME Code Section XI

RType: L1.52

Job Number

P16-MWR194020

Sheet 1 of 2

1. Owner

Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

2. Plant

Farley Nuclear Plant  
Highway 95 South  
Columbia, AL 36319

Unit

FNP 1

Date

April 26, 1991

3. Work Performed By

Name: Alabama Power Company Maintenance Department

Address: Joseph M. Farley Nuclear Plant

Type Code Symbol Stamp

N/A

Authorization Number

N/A

Expiration Date

N/A

4. Identification Of System

Service Water System

5.

(a) Applicable Construction Code: ASME Section III, 1971 Edition, Summer 71 Addenda, N/A Code Case  
(b) Applicable Section XI Utilized For Repairs Or Replacements, 1983 Edition, Summer 83 Addenda, N/A Code Case

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)
Disc	Wm. Powell	CM 1918	N/A	Valve TPNS Q1P16V043A	1974	Replaced	No
Disc	Wm. Powell	CM 3815B	N/A	P.O. 69030	1983	Replacement	No

7. Description Of Work

Installed new disc in valve Q1P16V043A (MOV3024A) due to degradation of existing disc. Ref: MIF 91 044582.

8. Tests Conducted

☐ Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ None ☐ Other  
Pressure \_\_\_\_\_ PSI Test Temp \_\_\_\_\_ °F.

Job Number

P16-MWR194020

Sheet 2 of 2

P. Remarks (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/ASigned H.R. Yule for Jim Thomas Date 7/10 19 91  
Owner or Owner's Designee, Title

## Certificate Of Inservice Inspection

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of GEORGIA and Employed by ARMSTRONG MUTUAL INSURANCE CO\* of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period 7/17/91 to 7/17/91 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 SYSTEM

Charles C. Ward  
Inspector's Signature

Commissions GA-00328 I, N  
National Board, State, Province, and Endorsements

Date 7/17 19 91