



February 26, 1993

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U. S. Nuclear Regulatory Commission
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Subject: Arkansas Nuclear One - Unit 2
Docket No. 50-368
License No. NPF-6
1992 Annual Report of Steam Generator
Tube Inservice Inspections

Gentlemen:

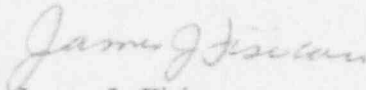
The Arkansas Nuclear One, Unit 2 (ANO-2) Technical Specifications 4.4.5.5.b and 6.9.1.5.b require the complete results of all ANO-2 steam generator tube inservice inspections (ISI) performed during the report period be submitted on an annual basis. Attached is the Steam Generator Tube Inservice Inspection Report for ANO-2's ninth refueling outage (2R9). An additional non-ISI inspection of the steam generator tubes was conducted as a result of the forced outage in March 1992 (2F92-1). Results of this non-ISI inspection were transmitted by letters dated May 12, 1992 (2CAN059202) and July 14, 1992 (2CAN079205).

During 2R9, a 100% inspection (with the exception of two tubes missed in the "B" steam generator) was performed as the first and only sample for both steam generators; therefore, no expansion was required from obtaining C-2 and C-3 results per Technical Specification 4.4.5.2. The two tubes missed were identified subsequent to the outage. A temporary waiver of compliance letter dated 11/27/92 (2CAN119205) and a Technical Specifications amendment request dated 12/22/92 (2CAN129203) were submitted to allow continued operation until the two tubes could be inspected during the planned steam generator inspection outage beginning April 30, 1993. NRC approval of the amendment request was received on February 23, 1993 (Amendment 143). The "A" generator inspection results were Category C-2, i.e., one or more tubes, but not more than 1% of the total tubes inspected were defective. The "B" generator inspection results were Category C-3 by virtue of having greater than one percent of the total tubes inspected determined to be defective. The Category C-3 report for the "B" generator was submitted to the NRC in letter 2CAN109204, dated October 13, 1992.

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This submittal completes the reporting requirements of ANO-2 Technical Specifications 4.4.5.5.b and 6.9.1.5.b. Should you have any questions regarding this issue, please contact me.

Very truly yours,



James J. Fisicaro
Director, Licensing

JJF/JJD
Attachments

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ATTACHMENT
ARKANSAS NUCLEAR ONE, UNIT 2
STEAM GENERATOR TUBING INSERVICE INSPECTION REPORT
NINTH REFUELING OUTAGE

INTRODUCTION

An inservice inspection was performed on tubes in Steam Generators (SG) 2E-24A and 2E-24B at Arkansas Nuclear One, Unit Two, during the period of September 5, 1992, through October 20, 1992. The number of tubes inspected were 8367 (100%) in the "A" generator and 8289 (100%-2) in the "B" generator. The interval between this inspection (2R9) and the previous inspection (2R8, March 1, 1991, to April 2, 1991) is within the range of twelve to twenty-four calendar months required by the ANO-2 Technical Specification 4.4.5.3.

INSPECTION SUMMARY

Tubes were inspected full length using 0.590 inch bobbin coil probes at mixed (multi-) frequencies of 400/100, 400/200, and 200/100 Khz and probe withdrawal rates of 24 inches per second. An independent group provided secondary data analysis in parallel with the primary steam generator tubing ISI contractor.

Since a 100% inspection was performed (except for two tubes in the "B" generator) as the first and only sample for each steam generator, no expansion was required as a result of the C-2 or C-3 Technical Specification 4.4.5.2 categories.

Additionally, a 100% inspection of the hot leg expansion transition region of the tubes (and 20% of the cold leg) was performed using a motorized rotating pancake coil (MRPC). The MRPC probe is utilized to detect circumferential cracks, which typically cannot be detected by the bobbin coil.

INSPECTION RESULTS

The "A" SG was found to be category C-2 in accordance with Technical Specification 4.4.5.2, with 67 tubes determined to be defective. The 67 defective tubes exhibited defect indications consisting of 17 circumferential indications located at the hot leg expansion transition region, 30 indications located at the eggcrate/support region, 10 indications located at the batwing support region, and 10 indications located at the sludge pile and/or expansion transition region. Fourteen of the seventeen circumferential defective tubes had hot leg stabilizers installed; the other three were selected as tube pull candidates. One of the ten batwing defective tubes required stabilizer installation due to the high velocity flow area located near the stay cylinder. All of the defective tubes in the "A" SG were removed from service by mechanical rolled plug installations, with the exception of three tubes selected for hot leg tube segment removal, which received welded tubesheet plugs. One of the tubes selected for removal, tube 79-83, could not be removed and was stabilized and plugged. Tube 140-86 was removed from service utilizing mechanical rolled plugs due to upper horizontal segment removal for chemical cleaning dissolution qualification.

The "B" SG was found to be category C-3 in accordance with Technical Specification 4.4.5.2, with 132 tubes determined to be defective. The 132 defective tubes exhibited defect indications consisting of 8 circumferential indications located at the hot leg expansion transition region, 94 indications located at the eggcrate/support region, 25 indications located at the batwing support region, and 5 indications located in the sludge pile and/or expansion transition region. All of the circumferential defective tubes had hot leg stabilizers installed. Two of the twenty-five batwing defective tubes required stabilizer installations due to the high velocity flow area near the stay cylinder. All of the defective tubes in the "B" SG were removed from service by mechanical rolled plug installations.

In steam generator 2E-24A, 428 tubes had less than 20% throughwall (TW) indications, 215 tubes had 20-39% TW indications (see Table 1), and 67 tubes had 40% or greater TW indications (See Table 2). All 67 tubes were plugged using Alloy 690 mechanical plugs. If a tube had both defective and degraded indications, the tube is listed only in Table 2.

In steam generator 2E-24B, 243 tubes had less than 20% TW indications, 260 had 20-39% TW indications (see Table 3), and 132 had 40% or greater TW indications (see Table 4). All 132 tubes were plugged using Alloy 690 mechanical plugs. Similar to above, if a tube had both defective and degraded indications, the tube is listed only in Table 4.

TERMINOLOGY FOR TABLES

TSH	TUBESHEET HOT LEG
TSC	TUBESHEET COLD LEG
OXH	Xth SUPPORT ON HOT LEG
OXC	Xth SUPPORT ON COLD LEG
BWX	Xth BATWING SUPPORT
TSH + Y	AN INDICATION Y INCHES ABOVE THE TOP OF THE TUBESHEET
OXH + Y	AN INDICATION ABOVE/BELOW THE CENTER OF THE SUPPORT
DSI	DISTORTED SUPPORT INDICATION
DTI	DISTORTED TUBESHEET INDICATION
ODI	OUTSIDE DIAMETER INDICATION
SCI	SINGLE CIRCUMFERENTIAL INDICATION
MCI	MULTIPLE CIRCUMFERENTIAL INDICATION
NQI	NON-QUANTIFIABLE INDICATION
SAI	SINGLE AXIAL INDICATION
TEH	TUBE END HOT LEG

TABLE 1

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
1	159	28	06H - 0.61
4	152	29	03H + 0.53
8	30	27	TSC + 2.38
9	29	28	02H + 0.64
9	33	30	05C + 8.71
		26	02H + 0.48
10	30	38	07H - 0.37
		21	07H - 0.37
10	136	31	05H + 0.59
12	60	30	05H + 0.52
		27	01C + 0.66
13	29	21	07H - 0.60
14	28	35	07C + 29.84
14	30	21	TSH + 3.11
14	62	22	TSH + 1.21
15	49	30	TSH + 2.03
15	51	25	01H + 0.57
15	53	33	TSH + 2.96
16	56	24	04H + 0.57
17	27	33	TSH + 3.17
18	134	22	TSH + 2.37
19	129	25	TSH + 2.37
20	30	21	TSH + 4.04
20	136	21	06H - 0.36
21	27	36	BW3 - 0.71
21	41	23	07H + 29.97
23	33	33	TSH + 1.57
23	163	20	BW5 - 0.29
24	106	31	04H - 0.37
24	110	20	TSH + 2.59
24	118	32	TSH + 1.76
24	124	33	TSH + 3.17
25	43	26	05H - 0.35
25	117	35	05H + 0.61
26	28	23	TSH + 2.34
28	64	28	05H - 0.43
		27	05H + 0.48
		20	06H - 0.50

TABLE 1 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
29	27	27	BW3 - 0.13
29	31	33	TSH + 2.91
29	129	20	07H + 0.48
31	111	37	07H - 0.55
32	38	28	TSH + 3.46
		24	TSH + 1.35
32	72	38	BW1 - 1.46
32	96	28	BW3 - 0.61
32	104	25	02H + 0.73
33	53	21	02H + 0.45
33	109	22	07H - 0.39
33	115	21	07H + 1.72
33	117	28	07H - 0.33
33	131	32	TSH + 2.63
34	50	33	05C + 0.45
34	104	20	07H - 0.62
35	27	35	TSH + 2.37
35	65	30	02H - 0.33
		28	01H - 0.57
35	109	20	06H + 34.11
35	113	30	TSH + 2.76
36	70	30	07H - 0.38
36	136	31	01H - 0.60
37	161	39	02C + 23.01
38	26	34	TSH + 2.15
38	30	28	TSH + 2.95
		20	TSH + 2.01
38	42	35	TSH + 2.69
38	52	24	04C + 14.45
38	58	31	03H + 0.52
38	104	24	07H - 0.54
39	33	25	TSH + 2.24
39	65	27	03H - 0.35
39	83	34	BW1 + 1.17
39	119	22	07H + 9.57
40	108	29	TSH + 2.93
41	29	20	07H - 0.48
41	67	30	02H + 0.91
41	115	30	08H - 0.48

TABLE 1 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
41	115	22	07H - 0.60
41	137	27	TSH + 0.76
41	143	26	08H - 0.60
42	38	30	TSH + 0.77
42	72	23	04H + 0.54
42	94	39	06H + 33.90
42	102	22	BW1 - 0.36
42	130	27	BW1 - 1.77
43	101	23	05H - 0.79
43	117	20	07H - 0.45
43	149	30	BW1 - 1.03
44	30	21	TSH + 2.13
44	112	28	08H - 0.35
44	116	21	BW3 + 0.00
45	87	28	06C + 0.31
45	105	29	TSH + 2.12
46	52	26	TSH + 7.32
46	62	21	07H + 1.38
46	98	37	05H + 0.24
46	102	27	06H + 34.76
46	144	33	BW5 + 0.00
47	53	29	TSH + 6.53
		22	03H + 0.69
48	62	37	08H + 1.67
48	114	24	BW1 - 0.64
49	103	38	01H + 0.47
49	115	25	BW3 - 0.33
50	74	21	TSC + 7.78
50	92	23	04H - 0.79
50	146	27	08H - 0.50
51	57	27	01H + 0.28
51	87	33	TSC + 0.78
52	70	33	07H + 8.50
52	142	27	07H + 0.71
53	103	30	BW3 + 0.00
53	113	35	07H + 23.68
53	139	31	06H + 0.63
54	52	26	08H + 8.90
55	77	28	07H + 15.31

TABLE 1 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
55	77	27	07H + 18.59
55	107	23	07H + 1.51
55	119	25	BW3 + 0.00
55	123	26	TSH + 2.56
55	143	21	04H + 0.36
56	158	21	BW1 - 1.01
57	39	22	08H - 0.48
57	85	24	07H + 20.15
57	105	22	07H - 0.50
57	117	21	TSH + 2.61
57	143	34	06H - 0.69
57	145	37	08C - 0.71
58	38	37	TSH + 2.41
58	78	33	07C - 0.64
58	110	31	08H - 0.47
		20	TSH + 3.92
58	152	23	BW1 - 0.78
59	45	28	06H + 0.53
59	109	26	06H - 0.33
		22	07H - 0.30
60	50	25	08H + 19.39
60	56	34	08H + 18.39
		23	08H + 18.69
60	64	29	03C + 8.85
		24	02H + 23.54
60	68	27	BW5 - 0.84
60	108	29	06H - 0.48
60	128	24	08H + 30.31
61	147	24	BW1 + 0.52
62	50	27	TSH + 2.53
62	62	30	01H - 1.01
62	104	30	TSH + 6.14
62	108	28	06H - 0.33
63	65	29	07H + 0.62
63	79	30	03H + 0.45
		21	07H - 0.13
63	105	26	07H + 1.33
64	34	23	TSH + 0.73
64	66	34	BW1 + 1.21

TABLE 1 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
64	90	22	04H + 0.40
64	108	32	TSH + 3.17
		30	TSH + 1.99
64	142	36	08C - 0.63
65	67	27	TSH + 4.00
65	113	22	06H + 0.61
65	115	30	01H + 0.47
66	38	21	BW5 - 0.38
66	76	39	08H + 0.54
66	104	32	09H - 1.04
67	29	24	09H - 1.21
68	48	26	01H + 0.51
68	102	29	TSH + 5.44
		22	TSH + 3.84
69	49	35	TSC + 1.84
71	107	31	01H - 0.46
72	50	20	06H - 0.52
72	94	32	TSH + 2.41
73	91	32	TSH + 6.89
74	92	22	08H + 1.74
74	102	26	08H + 0.63
75	53	22	TSH + 2.60
75	79	20	02H + 0.41
75	103	35	02H - 0.79
77	65	26	08H + 0.49
77	97	24	06H - 0.27
78	134	36	09H + 14.36
		35	06H - 0.71
79	127	25	09H + 2.47
		23	09H - 0.52
80	50	25	TSH + 2.49
80	92	26	07H - 0.38
80	136	27	08H - 0.58
		24	08H + 0.55
81	53	20	03C + 20.22
81	123	32	06H - 0.46
82	48	23	02H - 0.54
82	64	20	08H - 0.47
82	112	23	07H + 0.66

TABLE 1 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
83	149	31	09H + 29.95
86	48	21	TSH + 3.15
86	62	27	01H + 0.57
86	104	25	05C + 23.07
88	76	21	09H + 9.43
88	148	20	BW4 - 0.61
91	71	23	TSH + 2.78
91	103	27	09C + 8.65
		26	05H + 20.29
		25	05H + 1.04
92	42	20	BW1 + 2.15
92	112	20	07H + 0.80
93	75	30	TSH + 2.30
93	143	29	10H - 1.09
94	40	27	01H + 0.63
94	50	32	07H + 0.77
95	115	24	09H - 0.28
97	61	22	TSH + 2.90
98	38	26	BW3 + 17.48
98	66	33	03C + 32.63
		25	06C + 2.38
98	66	21	04C + 4.07
98	118	28	09H - 0.35
100	74	32	BW1 + 0.87
100	104	23	TSH + 3.26
100	128	21	07H - 0.57
101	53	27	06C + 1.63
101	105	28	10H + 3.64
103	103	32	10C + 0.00
105	113	20	10C - 0.20
106	90	22	07H + 0.37
108	66	22	08H + 0.46
111	49	24	09H - 0.35
111	67	31	10H + 18.88
112	46	26	TSC + 20.91
117	81	31	09H - 0.37
121	71	23	BW1 + 0.88
121	81	29	04H + 28.50
122	56	25	06C + 12.60

TABLE 1 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
122	72	27	BW1 - 0.83
123	93	30	10H + 4.88
125	93	23	10H + 1.39
133	109	37	BW5 - 1.04
		24	01H + 0.54
135	105	28	04C + 21.88
138	80	28	BW5 - 0.05
138	98	24	11C + 0.05

TABLE 2

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
DEFECT INDICATIONS ($\geq 40\%$ THROUGHWALL & I-CODES)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
3	131	DSI	03H - 0.49
5	57	ODI	TSH + 0.08
		ODI	TSH + 0.20
9	145	DSI	02H - 0.53
11	17	SCI	TSH + 0.07
		ODI	TSH + 0.06
18	106	DSI	01H - 0.45
19	129	DSI	02H + 0.67
20	108	DSI	01H - 0.47
20	132	64	02H - 0.56
20	136	DSI	01H + 0.47
25	53	ODI	TSH + 0.04
		ODI	TSH + 0.11
27	107	ODI	TSH + 0.02
		ODI	TSH + 0.08
32	72	DSI	BW1 - 1.20
32	108	61	01H - 0.43
36	48	DSI	01H + 0.72
36	64	DSI	05H - 0.17
37	79	70	TEH + 1.44
38	122	66	01H + 0.80
40	68	48	07H + 4.31
		42	06H + 22.35
43	149	DSI	06H - 0.56
46	62	DSI	08H - 0.41
46	108	56	08H - 0.55
47	53	DSI	02H + 0.47
		DSI	04H - 0.41
		DSI	05H - 0.51
		DSI	06H + 0.56
		60	01H + 0.18
47	57	SCI	TSH + 0.06
47	97	51	01H - 0.08
47	101	90	01H - 0.41
50	50	SCI	TSH + 0.05
50	54	DSI	01H - 0.56
52	98	DSI	01H - 0.50
		42	01H - 0.38
52	108	DSI	04H - 0.38

TABLE 2 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
DEFECT INDICATIONS ($\geq 40\%$ THROUGHWALL & I-CODES)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
52	108	51	04H - 0.30
52	136	DSI	01H + 0.64
56	112	DSI	02H - 0.47
		40	04C - 0.51
57	51	SCI	TSH + 0.02
58	62	SCI	TSH + 0.07
60	64	SCI	TSH + 0.05
60	146	DSI	BW5 - 0.34
61	147	NQI	03C + 19.49
62	102	DSI	BW3 - 0.46
63	51	DSI	07H + 0.34
64	48	SCI	TSH + 0.09
64	52	DSI	BW5 + 0.83
64	64	DSI	BW1 + 0.56
64	92	DSI	04H - 0.37
		56	BW3 + 0.54
		50	BW3 + 0.57
64	94	ODI	TSH + 0.04
		ODI	TSH + 0.18
67	79	SCI	TSH + 0.09
67	149	DSI	06H + 0.48
69	77	SAI	TSH + 0.31
69	131	SCI	TSH + 0.04
70	50	DSI	01H - 0.49
77	81	DSI	07H + 0.65
79	77	ODI	TSH - 0.02
79	83	MCI	TSH + 0.07
84	150	DSI	02H + 0.64
85	149	57	BW5 - 1.59
91	83	ODI	TSH + 0.10
93	117	SCI	TSH + 0.04
95	117	SCI	TSH + 0.08
96	116	SCI	TSH + 0.12
96	120	SCI	TSH + 0.09
97	117	ODI	TSH + 0.14
98	122	SCI	TSH + 0.20
102	110	SCI	TSH + 0.00
104	86	40	BW3 + 0.83
104	110	SCI	TSH + 0.03

TABLE 2 (cont'd)

2R9 "A" STEAM GENERATOR
EDDY CURRENT RESULTS
DEFECT INDICATIONS (\geq 40% THROUGHWALL & I-CODES)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
107	99	ODI	TSH + 0.21
109	85	DSI	08H + 0.65
110	134	40	BW1 + 1.06
136	70	DSI	BW5 - 1.00

TABLE 3

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
1	135	26	02H - 0.42
1	153	27	02H + 0.47
5	35	36	05H + 0.58
6	144	20	01H + 0.51
7	23	28	04H + 0.55
7	119	39	02H + 0.84
7	141	23	04H - 0.57
8	110	39	07H - 0.25
		31	TSH + 1.82
8	122	32	07H - 0.50
8	132	37	01H + 0.61
9	149	32	04H + 0.50
11	53	37	01H - 0.49
11	115	37	05H + 0.63
12	132	31	03H + 0.45
12	156	25	03H + 0.36
13	53	23	03H + 25.14
14	40	25	TSC + 1.91
14	132	28	07C - 0.60
15	109	32	TSC + 19.57
15	111	29	06H + 0.54
		26	07C + 0.57
15	119	35	04H + 0.46
16	32	35	01H + 0.40
19	135	21	03H + 19.69
19	147	24	02H - 0.53
20	6	30	BW1 - 0.11
22	14	35	BW3 + 1.28
		23	BW3 - 0.94
22	38	38	01H + 0.56
22	62	30	01H + 0.62
22	106	30	01H - 0.40
22	124	28	05H + 0.56
		20	01H - 0.30
23	131	25	01H - 0.30
23	141	21	04H + 0.87
24	6	25	BW3 - 0.50
24	8	28	BW1 + 0.41
24	12	35	BW1 - 0.08

TABLE 3 (cont'd)

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
24	12	21	BW3 - 0.03
24	14	31	BW3 + 0.44
		28	BW1 - 0.06
24	20	31	BW3 + 0.64
24	22	32	02H + 0.53
24	26	32	BW1 + 0.44
25	9	23	BW1 + 0.74
25	67	23	02H - 0.27
27	15	37	BW1 + 0.53
		23	BW3 + 0.47
27	21	20	05C + 12.74
27	45	33	03H + 0.35
27	67	28	BW5 - 0.73
27	111	22	02H - 0.19
27	143	23	03H + 0.25
29	99	37	TSC + 5.47
		22	BW1 - 0.97
29	101	31	BW5 - 1.06
29	149	30	03C + 29.47
30	16	37	BW3 - 0.25
30	34	38	03H + 0.43
		36	01H + 0.71
		21	BW3 - 0.17
30	46	23	01H + 0.68
30	56	27	04H + 0.56
30	66	20	01H + 0.71
30	68	31	BW1 + 0.71
30	102	29	01H - 0.23
30	106	31	01H + 0.54
31	137	38	01C + 5.10
31	157	25	BW1 + 0.57
32	34	21	01C + 23.82
33	115	37	TSH + 0.62
34	12	28	BW3 + 0.66
34	94	26	BW1 + 0.88
34	110	39	01H + 0.79
35	31	36	BW3 + 0.50
36	66	28	BW3 - 0.03
36	76	35	01H + 0.65

TABLE 3 (cont'd)

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
36	76	23	02H + 0.66
36	132	35	TSC + 0.90
37	81	27	BW1 + 0.87
38	86	33	BW5 - 0.83
		27	BW5 - 1.11
38	92	31	01H - 0.68
38	110	33	01H + 0.83
38	122	22	01H + 0.50
38	150	28	BW3 + 0.89
39	117	25	05H + 23.19
40	88	20	01H - 0.60
40	94	26	BW1 + 4.34
40	114	28	TSH + 3.12
41	99	37	01H + 0.90
41	141	30	04C + 13.07
41	143	39	BW1 + 5.21
		26	BW3 + 2.85
42	84	35	BW5 - 1.04
42	122	23	05H + 0.79
43	27	21	BW3 + 0.22
43	119	34	TSH + 1.70
44	16	32	BW1 - 0.22
44	118	32	TSH + 2.04
44	120	22	05H + 0.67
45	9	28	03C + 34.27
45	23	32	BW3 - 0.03
45	67	25	04H - 0.38
45	101	20	TSH + 0.55
46	70	25	01H + 9.42
47	131	33	02C + 30.17
47	143	34	03H + 0.39
48	82	22	BW3 + 6.25
49	77	26	TSC + 10.65
49	113	20	TSH + 4.67
50	114	21	03H - 0.52
51	53	21	TSH + 2.29
51	119	37	06C + 7.77
51	151	22	02C + 18.03

TABLE 3 (cont'd)

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
52	50	31	08H - 0.47
53	53	21	BW3 - 0.08
53	81	21	BW3 + 1.72
53	91	23	04H + 0.69
54	16	24	BW3 + 0.00
54	60	25	04C + 1.61
54	110	20	07H + 23.86
54	112	28	TSH + 2.02
55	37	29	TSC + 9.17
56	60	22	01H + 3.97
		21	01H + 4.27
56	84	30	BW5 - 0.95
58	82	38	08H - 0.54
59	31	33	BW3 - 0.50
59	107	22	01H + 0.66
59	127	28	02H + 0.54
60	48	28	BW5 - 0.64
60	88	27	01H + 0.53
		27	01H + 0.21
60	134	23	BW5 - 1.02
61	95	35	TSH + 2.65
62	76	25	03H + 0.75
62	122	23	03H + 0.46
63	71	28	03H - 0.08
63	107	26	TSH + 1.64
63	147	35	BW3 - 0.42
		21	BW3 + 0.37
63	149	28	BW3 - 0.06
64	44	37	BW5 + 0.00
64	76	32	04H + 0.73
64	102	21	TSH + 2.36
65	11	33	BW1 - 0.84
65	67	31	02H + 0.43
65	89	26	02H + 0.66
65	93	30	01H - 0.81
65	107	28	TSH + 1.63
65	125	36	02H - 0.59
66	54	20	02H + 0.63
66	74	24	09H + 1.42

TABLE 3 (cont'd)

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
67	19	30	BW1 - 0.91
68	60	34	01H + 0.55
68	82	35	01H + 0.46
68	116	32	01H - 0.48
69	77	22	04H - 1.27
69	113	34	02H - 0.60
69	133	38	BW3 + 0.23
71	41	32	06H + 0.48
71	47	30	BW3 - 0.14
71	155	25	BW5 - 1.01
72	76	31	01H + 0.52
73	53	25	04H + 0.60
73	131	25	BW3 + 0.09
		20	BW3 + 0.54
74	42	26	03H + 0.63
74	68	32	01H - 0.49
75	43	30	02H - 0.33
76	28	29	02H + 0.49
76	34	30	BW3 - 0.05
76	68	28	02H + 0.35
76	152	28	TSH + 0.80
77	81	24	TSH + 1.50
77	151	25	BW5 - 1.02
78	16	22	BW5 + 1.18
78	146	27	BW5 - 0.91
79	45	35	BW3 + 0.00
79	55	24	BW3 + 0.49
80	40	20	BW1 - 0.33
82	56	39	BW3 + 0.41
82	58	22	03H + 0.46
82	66	26	01H + 0.60
83	139	21	BW3 - 0.26
84	18	20	BW5 - 1.18
85	19	33	BW3 + 31.19
85	35	29	04H - 0.08
85	59	25	06H + 0.38
85	81	32	BW5 + 0.94
85	113	20	02H - 0.34

TABLE 3 (cont'd)

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
86	74	24	09H + 34.33
86	94	22	02H + 0.61
88	28	25	09H + 28.02
89	21	24	BW5 + 1.02
89	117	31	BW3 - 0.03
90	30	26	02H + 18.44
90	34	29	BW3 + 20.68
90	36	37	03C + 11.26
91	45	22	BW1 - 0.54
91	63	25	08C + 16.95
92	88	21	02H - 0.58
92	108	37	02H + 0.54
93	23	30	BW4 - 1.00
		23	BW4 + 0.97
93	25	22	BW5 - 1.14
93	33	33	BW2 + 0.81
93	49	31	BW1 + 0.00
93	69	20	03H + 19.94
93	87	31	BW3 + 0.85
93	113	22	01F - 0.50
		22	BW2 - 0.08
94	38	23	BW3 - 0.65
95	57	24	04H + 0.49
95	59	28	BW2 - 0.83
96	24	34	BW3 - 0.49
		30	BW4 + 0.84
		25	BW5 - 1.00
96	30	21	09H - 0.16
96	34	28	BW1 - 0.49
96	108	29	04C + 20.14
97	25	25	BW5 - 1.00
98	26	28	BW1 - 0.87
98	56	25	BW2 - 0.87
98	58	37	03C + 3.54
		33	BW2 - 0.05
98	72	39	06C + 14.20
98	118	27	02H - 0.51
98	128	27	BW1 + 0.79
99	27	26	BW5 - 0.78

TABLE 3 (cont'd)

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
99	41	34	BW2 - 0.91
100	30	28	BW2 - 0.76
100	56	31	07C + 6.08
100	74	31	BW1 + 1.10
		25	BW1 - 0.99
100	114	38	08C + 19.98
		24	08C + 20.53
101	27	39	BW5 - 0.97
102	34	26	BW1 - 0.91
103	29	20	BW5 - 1.02
103	53	23	03H + 0.71
		20	BW2 + 23.65
105	43	22	BW1 - 0.16
105	137	23	01H - 0.46
106	50	27	BW1 + 0.41
107	35	21	BW5 - 0.88
107	133	30	BW1 + 0.98
108	32	33	BW1 - 0.89
		29	BW1 + 0.94
108	68	26	01H + 0.70
108	80	23	BW3 + 0.90
108	90	37	BW3 + 0.87
110	34	39	BW3 - 0.35
111	35	37	BW3 - 0.95
		33	BW4 - 0.65
112	38	29	08H + 6.92
113	105	29	BW1 + 0.00
115	37	26	10C + 0.80
116	54	21	09H - 0.60
118	116	28	03C + 2.66
119	41	32	06C - 0.30
119	91	22	07C + 23.42
122	84	32	03H + 0.91
125	97	26	BW1 + 1.11
128	116	25	02H + 0.48
129	67	23	02H + 0.41
130	54	28	03C + 0.41
130	68	23	09H - 0.45
132	94	34	BW5 - 1.11

TABLE 3 (cont'd)

2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
REPORTABLE INDICATIONS (20-39% THROUGHWALL)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
134	96	20	BW5 - 1.09
135	69	32	BW1 - 0.94
135	83	36	BW5 - 1.04
135	103	32	BW5 - 1.72
136	78	22	BW1 + 1.01
137	69	20	BW2 - 0.80
137	73	28	BW5 - 1.02
137	87	34	BW1 - 0.98
138	72	28	BW1 - 1.06
138	84	32	BW1 - 1.15
138	90	37	BW5 - 0.99
138	98	32	03H + 6.97
139	73	26	BW5 - 0.92
139	81	21	BW1 - 1.10
139	95	33	BW5 - 1.09
140	80	26	BW5 + 1.24

TABLE 4
2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
DEFECT INDICATIONS ($\geq 40\%$ THROUGHWALL & I-CODES)

<u>ROW</u>	<u>COLUMN</u>	<u>% THRU THGWALL</u>	<u>LOCATION</u>
1	127	57	01H + 0.66
1	145	DSI	02H - 0.51
1	153	DSI	02H + 0.66
2	28	63	03H + 0.40
		41	01H + 0.64
2	38	ODI	TSC + 0.91
2	140	DSI	02H + 0.71
3	11	73	01H + 0.65
4	144	DSI	01H + 0.46
5	57	DSI	01H + 0.29
5	121	DSI	01H + 0.50
6	142	DSI	01H + 0.38
6	144	DSI	01H - 0.57
		57	05H + 0.54
8	110	ODI	TSH + 0.58
		ODI	TSH + 0.14
		DSI	06H + 0.93
9	27	45	03H + 0.11
		40	03H + 0.35
10	138	DSI	01H + 0.51
11	23	75	03H - 0.66
12	46	50	05H + 1.13
12	124	DSI	02H + 0.80
14	30	DSI	01H + 0.20
14	36	DSI	03H + 0.32
15	45	DSI	03H - 0.42
		DSI	03H + 0.28
		DSI	06H + 0.41
15	47	DSI	01H + 0.52
16	34	DSI	01H + 0.17
		DSI	02H + 0.47
16	44	DSI	03H + 0.42
		71	01H + 0.38
16	108	DSI	01H + 0.64
18	18	SCI	TSH + 0.09
20	6	DSI	BW3 - 0.60
22	14	DSI	BW3 - 0.17
22	26	DSI	03H - 0.55
22	106	87	01H + 0.71
23	131	76	01H + 0.53

TABLE 4 (cont'd)
2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
DEFECT INDICATIONS ($\geq 40\%$ THROUGHWALL & I-CODES)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
23	137	DSI	01H + 0.56
23	147	54	03H + 0.49
24	12	44	BW1 + 0.16
		40	BW3 - 0.41
24	32	DSI	01H + 0.71
24	50	DSI	02H - 0.39
24	108	DSI	01H - 0.52
24	144	DSI	02H - 0.20
25	147	SCI	TSH + 0.10
26	106	73	01H + 0.68
27	101	DSI	01H - 0.66
28	6	DSI	BW3 - 0.75
29	21	76	BW1 + 0.52
		60	BW1 + 0.33
29	45	84	01H + 0.77
29	99	49	BW5 - 0.89
29	129	40	02H + 0.48
30	40	DSI	04H + 0.71
30	118	DSI	01H + 0.65
31	157	DSI	BW3 - 0.60
33	123	DSI	01H - 0.59
33	125	DSI	01H + 0.03
33	149	DSI	01H - 0.72
34	74	53	02H - 0.50
34	94	43	BW1 - 0.96
35	105	45	02H + 0.40
38	50	DSI	06H + 0.46
38	90	43	01H - 0.42
38	156	DSI	BW3 + 0.22
40	32	DSI	01H + 0.69
42	46	DSI	07H + 0.41
42	150	DSI	BW3 + 0.58
45	101	55	TSH + 0.06
46	102	ODI	TSH + 0.12
47	73	DSI	01H - 0.67
47	151	DSI	BW3 + 0.17
48	132	DSI	01H - 0.21
52	94	45	01H - 0.41
52	116	DSI	01H + 0.77
53	81	68	08H + 25.47

TABLE 4 (cont'd)
2R9 "B" STEAM GENERATOR
EDDY CURRENT RESULTS
DEFECT INDICATIONS ($\geq 40\%$ THROUGHWALL & I-CODES)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
56	142	DSI	BW3 + 0.80
57	37	59	01H + 0.37
60	88	43	07H - 0.51
60	118	65	03H + 0.51
61	73	DSI	05H + 0.67
61	81	69	03H + 0.62
62	86	DSI	01H + 0.40
63	19	DSI	BW5 - 1.05
63	53	DSI	05H - 0.08
63	65	DSI	02H + 0.64
63	107	DSI	04H - 0.26
64	60	DSI	03H + 0.69
64	86	DSI	01H + 0.38
64	98	DSI	02H + 0.76
64	102	70	BW3 - 0.56
64	116	47	01H + 0.61
64	120	DSI	01H + 0.54
65	47	DSI	03H + 0.43
65	57	DSI	01H + 0.46
66	38	DSI	01H + 0.40
66	48	48	05H + 0.57
66	50	DSI	03H - 0.56
66	136	SCI	TSH + 0.00
68	84	74	01H + 0.47
69	53	DSI	02H - 0.38
69	99	47	04C - 0.57
70	56	DSI	01H + 0.73
72	68	48	01H + 0.44
72	112	44	02H - 0.20
73	111	DSI	BW3 + 0.00
74	46	DSI	BW3 + 0.00
74	74	82	02H + 0.46
77	73	DSI	01H - 0.47
77	89	DSI	02H - 0.34
77	101	DSI	01H + 0.48
77	107	DSI	02H + 0.34
77	111	DSI	02H + 0.73
78	50	DSI	01H + 0.55
78	136	45	BW3 + 0.31
80	70	DSI	02H + 0.29

TABLE 4 (cont'd)
 2R9 "B" STEAM GENERATOR
 EDDY CURRENT RESULTS
 DEFECT INDICATIONS ($\geq 40\%$ THROUGHWALL & I-CODES)

<u>ROW</u>	<u>COLUMN</u>	<u>% THROUGHWALL</u>	<u>LOCATION</u>
81	77	DSI	02H + 0.65
82	18	49	01H + 0.98
82	74	DSI	02H + 0.54
84	18	DSI	BW1 - 1.04
84	80	SCI	TSH + 0.08
86	94	DSI	02H - 0.50
87	131	DSI	01H - 0.66
92	108	40	01H + 0.50
92	122	SCI	TSH + 0.13
94	24	61	BW4 + 1.00
97	99	ODI	TSH + 1.00
101	65	SCI	TSH + 0.03
106	52	DSI	03H + 0.71
107	33	78	BW1 - 0.93
107	67	48	BW1 + 0.85
		46	BW1 - 0.50
		44	BW1 + 0.11
108	32	45	BW4 - 0.86
108	64	SCI	TSH + 0.12
108	86	SCI	TSH + 0.03
109	33	DTI	TEH + 19.13
119	41	48	06C + 0.36
133	101	DSI	BW5 - 0.82
137	101	DSI	BW5 - 1.00
138	90	DSI	BW5 - 1.15