

WOLF CREEK

NUCLEAR OPERATING CORPORATION

Otto L. Maynard
Vice President Plant Operations

March 30, 1995

WO 95-0037

U. S. Nuclear Regulatory Commission
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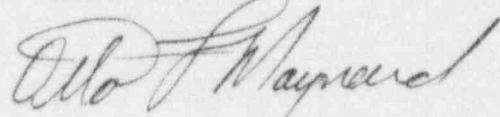
Subject: Docket No. 50-482: Special Report 94-004

Gentlemen:

The attached Special Report is being submitted in accordance with Technical Specification 4.4.5.5.b concerning the results of Wolf Creek Generating Station's sixth steam generator tube inservice inspection.

If you have any questions concerning this matter, please contact me at (316) 364-8831 extension 4450 or Mr. Richard D. Flannigan at extension 4500.

Very truly yours,



Otto L. Maynard

OLM/jra

Attachment

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SPECIAL REPORT 94-004
SIXTH STEAM GENERATOR TUBE INSPECTION RESULTS

This report is being submitted pursuant to Technical Specification 4.4.5.5.b and 6.9.2 to report the results of the sixth steam generator tube inservice inspection.

The sixth steam generator tube inservice inspection was completed by Westinghouse Electric Corporation on October 11, 1994 during the seventh refueling outage. Of the 5617 tubes inspected in Steam Generator "A", a total of nine tubes were plugged due to indications found during the inspection. Additionally, 24 of the 5607 tubes inspected in Steam Generator "D" were plugged due to indications. Seventeen additional tubes were inspected in Steam Generator "D" following removal of previously installed Inconel 600 mechanical tube plugs. This is discussed in Special Report 94-003 which was transmitted by letter WO 94-0172 dated October 21, 1994. Included in this inspection effort were tubes which had been previously identified as having indications requiring re-inspection during this inservice inspection effort. The inspection results, which includes the location and percent of wall-thickness penetration for each indication of an imperfection, are listed in Section 3 of this report.

NRC Bulletin 89-01, "Failure of Westinghouse Steam Generator Tube Mechanical Plugs," with supplements, requires that mechanical tube plugs manufactured from Inconel 600 with certain heat numbers be removed prior to the expiration of their predicted time to fail. Thirty-four Inconel 600 mechanical tube plugs were removed from Steam Generator "D" (17 tubes). Six of these tubes were returned to service following additional inservice inspections and the remaining 11 tubes were replugged with 22 Inconel 690 mechanical tube plugs. This completes the replacement of Inconel 600 mechanical tube plugs as required by NRC Bulletin 89-01 for all steam generators at Wolf Creek Generating Station.

In addition to the nine tubes in Steam Generator "A" that were mechanically plugged due to indications found during the inservice inspection, five stub-type bare hole plugs were mechanically plugged and one bar-type bare hole plug was removed and replaced with a welded plug. Three other bar-type bare hole plugs were inspected with Motorized Rotating Pancake Coil and found acceptable.

The results of the sixth steam generator tube inservice inspection have been classified into Category C-2 as defined by Technical Specification 3.4.5. Category C-2 is defined as inspection results that indicate that one or more tubes, but not more than 1 percent of the total tubes inspected are defective, or between 5 percent and 10 percent of the total tubes inspected are degraded tubes. Steam Generator "A" had .64 percent degraded tubes and .16 percent defective tubes. Steam Generator "D" had 1.03 percent degraded tubes and .62 percent defective tubes.

1. Number and Extent of Tubes Inspected:

- A. Steam Generator "A": A total of 5617 tubes were inspected full length.
- B. Steam Generator "D": A total of 5624 tubes were inspected full length.

2. Identification of Tubes Plugged:

	Row	Column
A. Steam Generator "A":		
New pluggable indications	45	35
	52	38
	51	47
	43	50
	41	52
	40	56
	15	68
	40	68
	50	74

	Row	Column
B. Steam Generator "D":		
Replugged after Inconel 600	43	20
plug removal	43	21
	43	22
	44	22
	47	24
	48	25
	50	28
	45	58
	49	60
	50	95
	48	98

New pluggable indications	37	15
	45	24
	53	33
	43	40
	50	40
	49	43
	45	47
	52	47
	45	48
	30	50
	50	53
	48	59
	50	61
	45	62
	45	64
	50	67
	48	70
	50	81
	50	82
	19	93
	45	94
	45	97
	47	99
	36	110

3. Location and Percent of Wall Thickness Penetration for Each Indication of an Imperfection (Note: Multiple listings of the same tube are the result of more than one indication in that tube):

Key For Indication Lists

#H, #C	(# = number) of Support Plate Hot Leg or Cold Leg Side
AV#	Anti-Vibration Bar (# = number)
BPC	Baffle Plate Cold Leg
BPH	Baffle Plate Hot Leg
TSH	Tube Sheet Hot Leg
TSC	Tube Sheet Cold Leg
P	Tube Plugged, following % of Wall Thickness Loss
Indication	% of Wall Thickness Loss
Inch (+) from Location	Distance Measured from reference point (AV Bar, Baffle Plate, Tube Support Plate, etc.)

Tube Indications In Steam Generator "A"

Row	Column	Location/Leg	Indication (% of Wall Thickness)	Inch (+) From Location
38	19	6H	25	23.73
45	25	AV5	27	0.00
42	26	1C	24	1.45
46	28	7C	25	-.84
45	30	AV3	16	.19
45	30	AV5	17	0.00
50	30	AV5	13	-.33
51	30	AV5	11	0.00
34	31	5C	15	10.48
37	32	7C	20	.26
45	32	AV4	33	0.00
45	32	AV5	26	0.00
36	33	7H	12	-.76
45	35	AV2	24	0.00
45	35	AV3	27	0.00
45	35	AV4	46P	0.00
45	35	AV6	14	0.00
48	35	AV5	13	-.10
45	37	AV2	19	-.13
45	37	AV3	14	0.00
43	38	AV3	36	0.00
52	38	AV3	32	0.00
52	38	AV4	43P	0.00
52	38	AV5	32	0.00
52	38	AV6	19	0.00

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication</u> <u>(% of Wall Thickness)</u>	<u>Inch (+)</u> <u>From Location</u>
26	39	1C	21	25.08
44	39	AV3	13	.26
44	39	AV4	31	0.00
44	39	AV5	27	0.00
45	39	AV2	18	0.00
45	39	AV3	35	0.00
45	39	AV4	32	0.00
38	40	AV3	18	0.00
42	40	7C	21	-1.02
27	41	AV2	15	0.00
27	41	AV5	18	.03
38	41	AV3	16	0.00
38	41	AV4	13	-.10
45	41	AV3	30	0.00
45	41	AV4	26	0.00
45	41	AV5	15	0.00
45	41	AV6	14	0.00
33	42	6C	18	30.43
36	42	AV2	14	0.00
40	42	AV3	11	0.00
40	42	AV4	19	0.00
18	44	1C	29	-.66
40	44	AV3	16	0.00
40	44	AV4	17	0.00
40	44	AV5	12	0.00
41	44	AV4	16	0.00
44	44	AV2	18	0.00
44	44	AV3	12	0.00
44	44	AV4	23	0.00
44	44	AV5	20	0.00
44	44	AV5	19	0.00
44	44	AV6	22	0.00
28	45	AV5	14	-.10
35	45	AV2	18	-.13
36	45	AV2	17	-.16
36	45	AV3	12	0.00
36	45	AV5	19	0.00
44	45	AV3	18	0.00
44	45	AV5	13	.25
38	46	AV2	10	.06
43	46	AV5	12	-.09
51	47	AV3	27	0.00
51	47	AV4	35	0.00
51	47	AV5	42P	0.00
9	48	6H	13	36.91
38	48	AV3	16	0.00
30	49	AV2	25	0.00
30	49	AV5	33	0.00
36	49	AV2	13	0.00
36	50	AV4	19	0.00
43	50	AV2	49	0.00
43	50	AV3	39	0.00
43	50	AV4	54P	0.00

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication</u> <u>(% of Wall Thickness)</u>	<u>Inch (+)</u> <u>From Location</u>
43	50	AV5	36	0.00
43	50	AV6	41	0.00
40	52	AV2	16	-.09
40	52	AV5	28	0.00
41	52	AV1	40P	-.03
18	55	AV1	16	0.00
40	56	AV2	40P	.12
40	56	AV3	31	0.00
40	56	AV4	27	0.00
40	56	AV5	28	0.00
44	56	AV3	27	0.00
19	58	AV6	16	.15
40	58	AV3	25	0.00
41	58	AV2	22	0.00
41	58	AV3	14	0.00
43	58	AV2	28	0.00
51	59	AV1	13	0.00
51	59	AV2	28	0.00
51	59	AV3	28	0.00
51	59	AV4	17	0.00
51	59	AV5	25	0.00
51	59	AV6	15	0.00
44	60	AV3	11	0.00
44	60	AV4	14	-.06
47	61	2H	16	4.39
15	68	1H	55P	-.81
40	68	AV2	48P	0.00
40	68	AV3	39	0.00
40	68	AV4	37	0.00
40	68	AV5	24	0.00
41	68	6H	16	21.18
40	70	AV5	14	0.00
37	73	AV2	16	.43
37	73	AV3	34	0.00
37	74	AV3	25	0.00
37	74	AV4	25	0.00
37	74	AV5	25	.12
50	74	4H	16	22.12
50	74	AV2	18	0.00
50	74	AV3	35	0.00
50	74	AV4	36	0.00
50	74	AV5	45P	0.00
50	74	AV6	34	0.00
41	75	AV5	25	0.00
50	75	AV4	34	0.00
50	75	AV5	3	0.00
39	76	AV2	17	-.03
39	76	AV2	18	0.00
50	76	AV2	23	0.00
50	76	AV3	21	0.00
50	76	AV3	16	-.06
39	79	AV3	19	0.00
39	79	AV4	25	.06

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication</u> <u>(% of Wall Thickness)</u>	<u>Inch (+)</u> <u>From Location</u>
39	79	AV4	17	-.03
39	79	AV4	14	0.00
39	80	AV2	16	0.00
39	80	AV3	24	.30
39	80	AV4	26	0.00
39	80	AV6	26	.27
48	80	3H	16	31.42
39	84	AV2	17	0.00
39	84	AV3	30	0.00
39	84	AV4	16	0.00
39	84	AV5	17	0.00
39	85	AV3	27	0.00
39	85	AV4	32	0.00
39	85	AV5	19	0.00
31	86	AV5	17	0.00
39	86	AV1	10	0.00
39	86	AV3	26	0.00
39	86	AV4	36	0.00
53	89	AV3	10	-.12
53	89	AV4	9	-.26
22	90	BPC	23	-1.97
50	90	AV5	15	.10
36	91	AV2	10	.06
36	91	AV4	19	0.00
31	95	3H	22	27.77
39	95	AV4	13	0.00
38	98	AV3	10	.03
38	98	AV4	18	0.00
38	99	AV4	25	0.00
8	102	2H	31	9.05
35	102	1H	18	27.12
29	107	2H	11	29.71
1	113	1C	28	5.14

Tube Indications In Steam Generator "D"

Row	Column	Location/Leg	Indication (% of Wall Thickness)	Inch (+) From Location
27	8	AV1	12	0.00
27	8	AV6	13	0.00
29	10	AV2	14	0.00
29	10	AV5	20	0.00
30	10	AV2	12	0.00
30	10	AV5	22	0.00
32	11	AV6	14	0.00
33	11	AV2	10	0.00
33	11	AV5	11	0.00
33	11	AV2	18	0.00
33	11	AV5	15	0.00
32	12	AV5	15	0.00
33	12	AV2	13	0.00
33	12	AV5	21	0.00
33	13	AV4	23	0.00
33	13	AV4	22	0.00
33	13	AV5	17	0.00
33	13	AV6	27	0.00
33	14	AV3	13	0.00
33	14	AV4	19	0.00
36	15	AV5	19	0.00
37	15	AV4	41P	0.00
37	15	AV5	15	0.00
36	16	AV4	22	0.00
37	16	AV4	20	0.00
37	16	AV4	19	0.00
37	16	AV5	9	0.00
37	17	AV5	15	0.00
39	17	AV2	31	0.00
39	17	AV3	27	0.00
39	17	AV4	22	0.00
39	17	AV5	25	0.00
38	18	AV4	12	0.00
39	18	AV2	15	0.00
39	18	AV3	18	0.00
33	19	AV3	12	0.00
38	19	AV3	13	0.00
39	19	AV2	25	0.00
39	19	AV3	16	0.00
39	19	AV5	16	0.00
39	19	AV6	12	0.00
41	19	AV2	20	0.00
41	19	AV3	13	0.00
41	19	AV4	14	0.00
41	19	AV5	16	0.00
41	19	AV6	18	0.00
41	20	AV3	22	.05
41	20	AV4	32	.17
41	20	AV5	33	.22
41	20	AV6	18	-.08

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication</u> <u>(% of Wall Thickness)</u>	<u>Inch (+)</u> <u>from Location</u>
42	20	AV3	34	0.00
42	20	AV6	30	2.32
43	20	AV1	22	0.00
43	20	AV3	69P	0.00
43	20	AV4	31	0.00
43	20	AV5	37	0.00
43	20	AV6	27	0.00
42	21	AV2	15	0.00
42	21	AV3	25	0.00
42	21	AV4	12	0.00
42	21	AV5	33	0.00
42	21	AV6	24	0.00
43	21	AV2	21	-.03
43	21	AV3	17	.37
43	21	AV4	25	.06
43	21	AV5	51P	-.08
44	21	AV3	27	0.00
44	21	AV5	37	0.00
44	21	AV6	20	0.00
43	22	AV4	36	0.00
43	22	AV5	16	.03
43	22	AV4	P*	0.00
44	22	AV4	41P	.22
44	22	AV5	38	.16
45	22	AV3	34	.08
45	22	AV5	37	.11
41	23	AV5	29	0.00
43	23	AV4	13	0.00
43	23	AV5	17	.05
43	23	AV6	22	.05
44	23	AV3	26	.03
44	23	AV4	16	-.05
44	23	AV5	18	-.03
44	23	AV6	17	.03
44	24	AV4	34	.05
44	24	AV5	32	.13
45	24	AV4	38	16.88
45	24	AV5	41P	.08
47	24	AV2	35	0.00
47	24	AV3	37	0.00
47	24	AV4	49P	0.00
47	24	AV5	37	0.00
47	24	AV6	34	0.00
44	25	AV5	13	-.16
48	25	AV1	34	0.00
48	25	AV2	34	0.00
48	25	AV3	39	0.00
48	25	AV4	79P	0.00
48	25	AV5	56	0.00
48	25	AV6	39	0.00
44	26	AV4	21	0.00
48	26	AV4	11	.03
43	27	AV3	19	-.24

Row	Column	Location/Leg	Indication (% of Wall Thickness)	Inch (+) From Location
46	27	AV2	10	0.00
46	27	AV3	22	.05
46	27	AV4	31	.11
46	27	AV5	27	.03
46	27	AV6	14	0.00
48	27	AV2	24	0.00
48	27	AV3	18	.27
48	27	AV4	37	.14
48	27	AV5	23	0.00
48	27	AV6	27	-.14
45	28	AV5	18	.08
49	28	AV5	24	-.05
49	28	AV6	25	.03
50	28	AV1	41	0.00
50	28	AV2	55	0.00
50	28	AV3	36	0.00
50	28	AV4	60	0.00
50	28	AV5	71P	0.00
50	28	AV6	38	0.00
41	29	AV3	15	0.00
41	29	AV4	25	0.00
47	29	AV4	31	0.00
47	32	AV4	13	0.00
47	32	AV5	11	0.00
37	33	AV3	15	0.00
53	33	AV2	11	0.00
53	33	AV3	16	0.00
53	33	AV4	43P	0.00
53	33	AV5	35	0.00
53	33	AV6	27	0.00
39	37	AV2	14	0.00
39	3	AV3	14	0.00
39	37	AV4	15	0.00
46	37	AV4	25	0.00
46	37	AV5	20	0.00
38	40	AV2	14	0.00
43	40	AV1	18	0.00
43	40	AV2	19	0.00
43	40	AV3	30	0.00
43	40	AV4	40P	0.00
43	40	AV5	31	0.00
50	40	AV2	33	0.00
50	40	AV3	34	0.00
50	40	AV5	46P	0.00
42	41	AV2	13	0.00
42	41	AV3	25	0.00
42	41	AV4	17	0.00
42	41	AV5	14	0.00
42	41	AV6	14	0.00
51	41	AV2	17	0.00
45	43	AV3	14	0.00
45	43	AV4	18	0.00
49	43	AV2	31	0.00

Row	Column	Location/Leg	Indication (% of Wall Thickness)	Inch (+) From Location
49	43	AV3	43	0.00
49	43	AV4	51P	0.00
49	43	AV5	34	0.00
49	43	AV6	14	0.00
44	46	AV2	13	0.00
44	46	AV5	11	0.00
45	47	AV2	42	0.00
45	47	AV3	48P	0.00
45	47	AV4	43	0.00
45	47	AV5	32	0.00
52	47	AV1	24	0.00
52	47	AV2	33	0.00
52	47	AV3	44	0.00
52	47	AV4	45	0.00
52	47	AV5	49P	0.00
52	47	AV6	26	0.00
45	48	AV2	21	-.14
45	48	AV3	43P	-.08
45	48	AV4	26	-.03
45	48	AV5	30	.08
30	50	AV2	43	.08
30	50	AV5	51P	.08
30	50	AV6	19	.08
48	50	AV3	16	0.00
48	50	AV4	15	0.00
48	50	AV5	17	0.00
50	52	AV3	25	.05
50	52	AV4	36	.14
50	52	AV5	25	.08
45	53	AV2	28	0.00
45	53	AV3	28	0.00
45	53	AV4	34	0.00
45	53	AV5	36	0.00
45	53	AV6	33	0.00
50	53	AV1	16	0.00
50	53	AV2	37	0.00
50	53	AV3	41	0.00
50	53	AV4	56P	0.00
50	53	AV5	54	0.00
50	53	AV6	24	0.00
44	55	AV1	15	-.15
44	55	AV2	16	0.00
44	55	AV3	30	0.00
44	55	AV4	24	0.00
44	55	AV5	27	0.00
45	55	AV2	12	0.00
45	55	AV3	14	0.00
45	55	AV4	17	0.00
45	56	AV3	22	0.00
45	56	AV4	22	0.00
50	56	AV2	12	-.12
50	56	AV3	23	0.00
50	56	AV4	22	0.00

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication</u> <u>(% of Wall Thickness)</u>	<u>Inch (+)</u> <u>From Location</u>
50	56	AV5	13	.12
45	58	AV2	27	0.00
45	58	AV3	14	0.00
45	58	AV4	41P	-.03
45	58	AV5	32	0.00
47	58	AV1	13	0.00
47	58	AV2	29	0.00
47	58	AV3	22	0.00
47	58	AV4	20	0.00
47	58	AV5	37	0.00
45	59	AV2	13	0.00
48	59	AV2	17	0.00
48	59	AV3	25	0.00
48	59	AV4	40P	-.06
48	60	AV3	20	0.00
48	60	AV4	27	0.00
49	60	AV2	40P	0.00
49	60	AV3	35	0.00
49	60	AV4	18	0.00
49	60	AV5	19	16.42
49	60	AV5	18	39.44
50	61	AV1	26	0.00
50	61	AV2	21	0.00
50	61	AV3	17	0.00
50	61	AV4	43P	0.00
50	61	AV5	33	0.00
45	62	AV1	13	0.00
45	62	AV2	49P	0.00
45	62	AV3	49	0.00
45	62	AV4	31	0.00
45	62	AV5	42	0.00
45	62	AV6	12	0.00
41	64	AV5	11	0.00
45	64	AV2	40	0.00
45	64	AV3	44P	0.00
45	64	AV4	36	0.00
45	64	AV5	43	0.00
41	66	AV2	12	0.00
41	66	AV4	21	0.00
41	66	AV5	22	0.00
50	67	AV2	42	0.00
50	67	AV3	46P	0.00
50	67	AV4	20	0.00
50	67	AV5	35	0.00
50	67	AV6	18	-.35
46	68	AV2	20	0.00
48	69	AV2	19	0.00
46	69	AV3	17	0.00
44	70	3C	15	5.16
48	70	AV2	29	0.00
48	70	AV3	44	0.00
48	70	AV4	52	0.00
48	70	AV5	56P	0.00

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication</u> <u>(% of Wall Thickness)</u>	<u>Inch (+)</u> <u>From Location</u>
48	70	AV6	30	0.00
36	71	AV3	22	0.00
36	71	AV4	15	0.00
48	71	AV2	17	0.00
48	71	AV3	34	0.00
48	71	AV4	31	0.00
48	71	AV5	10	0.00
44	72	AV2	22	0.00
44	72	AV3	33	0.00
44	72	AV4	33	0.00
44	72	AV5	14	0.00
44	72	AV6	23	0.00
36	73	AV5	19	0.00
44	74	AV2	12	0.00
44	74	AV3	19	0.00
50	75	AV2	30	.03
50	75	AV3	27	-.06
50	75	AV5	21	-.06
39	77	AV3	16	0.00
39	77	AV4	18	0.00
33	79	AV5	13	0.00
36	80	AV3	14	0.00
36	80	AV4	11	0.00
37	81	AV3	17	0.00
43	81	AV3	25	0.00
50	81	AV2	50P	0.00
50	81	AV3	19	0.00
50	81	AV4	32	0.00
50	81	AV5	28	0.00
51	81	AV4	17	0.00
51	81	AV5	20	0.00
49	82	AV2	18	0.00
50	82	AV3	46P	0.00
50	82	AV4	42	.03
50	82	AV5	32	.14
50	82	AV6	25	.05
40	84	AV2	31	.05
40	84	AV3	28	-.03
40	84	AV5	25	.06
41	84	AV3	13	0.00
45	85	AV2	19	.21
45	85	AV3	36	-.08
45	85	AV4	26	.22
45	86	AV2	20	-.08
45	86	AV3	29	.11
45	86	AV4	19	0.00
45	88	AV5	14	0.00
51	89	AV3	22	.19
51	89	AV4	23	.03
51	89	AV5	23	-.03
53	90	AV5	13	0.00
40	92	AV5	15	0.00
43	92	AV3	18	0.00

Row	Column	Location/Leg	Indication (% of Wall Thickness)	Inch (+) From Location
49	92	AV4	13	0.00
19	93	2C	P**	.08
45	93	AV4	17	.16
45	93	AV5	20	.18
48	93	AV2	17	.24
48	93	AV3	17	0.00
48	93	AV4	17	.36
45	94	AV4	31	.03
45	94	AV5	42P	.08
41	95	AV5	17	.13
45	95	AV4	25	.26
45	95	AV5	30	.29
50	95	AV3	14	0.00
50	95	AV4	61P	0.00
50	95	AV5	46	0.00
50	95	AV6	44	0.00
44	96	AV3	17	0.00
44	96	AV4	14	.35
45	96	AV5	19	0.00
41	97	AV4	26	.26
45	97	AV3	19	.25
45	97	AV4	33	0.00
45	97	AV5	43P	0.00
40	98	AV3	19	0.00
48	98	AV2	69P	0.00
48	98	AV3	43	0.00
48	98	AV4	54	0.00
48	98	AV5	51	0.00
48	98	AV6	45	0.00
47	99	AV2	32	0.00
47	99	AV3	46	0.00
47	99	AV4	41	0.00
47	99	AV5	54P	0.00
47	99	AV6	30	0.00
41	100	AV2	10	-.03
41	100	AV3	19	.41
41	100	AV4	16	.08
41	100	AV5	18	.36
19	101	TSH	20	9.38
40	102	AV3	16	0.00
38	103	AV4	19	0.00
40	103	AV2	16	0.00
40	103	AV3	17	0.00
40	103	AV4	15	0.00
40	104	AV2	20	0.00
40	104	AV5	16	0.00
38	105	AV3	18	0.00
38	105	AV4	17	0.00
40	105	AV2	27	-.11
40	105	AV3	32	0.00
40	105	AV4	23	0.00
21	106	1C	27	34.66
19	107	TSH	22	9.00

<u>Row</u>	<u>Column</u>	<u>Location/Leg</u>	<u>Indication</u> <u>(% of Wall Thickness)</u>	<u>Inch (+)</u> <u>From Location</u>
21	107	TSH	17	15.01
35	107	AV4	17	0.00
35	108	AV4	18	-.08
35	108	AV6	13	0.00
33	109	AV3	19	0.00
35	109	AV3	23	0.00
35	109	AV4	39	0.00
18	110	TSH	14	6.47
36	110	AV1	15	0.00
36	110	AV2	50P	0.00
36	110	AV3	19	0.00
36	110	AV4	12	0.00
36	110	AV5	36	0.00
36	110	AV6	19	0.00
30	114	AV5	31	0.00
28	115	AV6	31	0.00
22	116	TSH	20	18.80

* Plugged due to Inconel 600 mechanical tube plug top becoming lodged in tube during removal process.

** Preventively plugged due to volumetric indication.