WOLF CREEK
NUCLEAR OPERATING CORPORATION

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Vice President, Engineering

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ET 07-0005

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Subject: Docket No. 50-482: Results of the Fourteenth Steam Generator Tube Inservice Inspection

Gentlemen:

Attachment I, the Steam Generator Tube Inspection Report, is being submitted in accordance with Wolf Creek Generating Station (WCGS) Technical Specification 5.6.10. This report provides the results of Wolf Creek Generating Station's fourteenth steam generator (SG) tube inservice inspection. The Steam Generator Tube Inspection Report includes the following:

a. The scope of inspections performed on each SG;
b. Active degradation mechanisms found;
c. Nondestructive examination techniques utilized for each degradation mechanism;
d. Location, orientation (if linear), and measured sizes (if available) of service induced indications;
e. Number of tubes plugged during the inspection outage for each active degradation mechanism;
f. Total number and percentage of tubes plugged to date; and
g. The results of condition monitoring, including the results of tube pulls and in-situ testing.

No commitments are contained in this correspondence.

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If you have any questions concerning this matter, please contact me at (620) 364-4084, or Mr. Kevin Moles at (620) 364-4126.

Very truly yours,

Terry J. Garrett

TJG/rlt

Attachment

cc: J. N. Donohew (NRC), w/a
V. G. Gaddy (NRC), w/a
B. S. Mallett (NRC), w/a
Senior Resident Inspector (NRC), w/a

STEAM GENERATOR TUBE INSPECTION REPORT

This report is being submitted pursuant to Technical Specification 5.6.10 to report the results of the fourteenth steam generator (SG) tube inservice inspection.

Summary

The fourteenth SG tube inservice inspection was completed by Westinghouse Electric Corporation on October 22, 2006, during Refueling Outage 15 (RF15). Initial entry into Mode 4 was achieved on November 6, 2006.

During RF15, the Wolf Creek Model F Steam Generators were in the second sequential inspection period (90 Effective Full Power Months). To date, the only SG service-induced tube degradation is wear at Anti-Vibration Bar (AVB) intersections and wear due to the presence of foreign objects. No corrosion related tube degradation mechanisms have been detected. The condition of the SGs has met all industry and regulatory structural and leakage integrity requirements.

Section 1 of this report describes the scope of inspections performed, including the nondestructive examination techniques utilized for each degradation mechanism.

Section 2 contains the location, orientation (if linear), and measured sizes (if available) of service induced indications.

Section 3 contains the inspection results, which include:

a. Active degradation mechanisms found;
b. Number of tubes plugged during the inspection outage for each active degradation mechanism;
c. Total number and percentage of tubes plugged to date; and
d. The results of condition monitoring, including the results of tube pulls and in-situ testing.

STEAM GENERATOR TUBE INSPECTION REPORT

Technical Specification Required Reports

Section 1: Scope and Examination Techniques of Inspections Performed

The actual inspection performed during RF15 exceeded both the technical specification minimum requirements and the requirements of the Electrical Power Research Institute (EPRI) Pressurized Water Reactor (PWR) Steam Generator Examination Guidelines. The inspections were performed in SGs A and D and included:

- 100% bobbin examination of tubes full length except for Rows 1 to 4, which were inspected with the bobbin from tube end to tube support plate #7 on both the hot and cold leg sides (see note 1)
- 55% Plus Point examination of the hot leg top of tubesheet (TTS) ±3", including 100% of the peripheral tubes, 2 pitches into the bundle
- 100% Plus Point examination of the cold leg peripheral tubes TTS ±3", 2 pitches into the bundle
- 50% Plus Point examination of the hot leg tubesheet expansion zone bulges and overexpansions in the region from the TTS to the TTS-17". The sample was concentrated in the range of TTS to TTS-10"
- Special Interest Plus Point examinations of all hot and cold leg possible flaw locations including all "I-codes" that were new or not resolved by history review
- Plus Point examination of all previously un-inspected and new hot leg (including the U-bend) dings and dents >5 volts
- Plus Point examination of a 5% sample of bobbin indications that have not changed since the prior inspection ("H" and "S" codes)
- Plus Point inspection to bound (all surrounding tubes, at least one pitch removed) the tubes exhibiting possible loose part signals
- Acquisition of low frequency bobbin data and a sample of Plus Point data to support scale profiling analysis to provide information on the secondary side deposit accumulation
- Visual inspection of all plugs

*Note 1: 100% of the u-bends have been inspected during the second inspection period. The pre-outage degradation assessment documented that degradation in the first 10 rows of u-bends is not expected due to the additional stress relieving after bending of these tubes.

STEAM GENERATOR TUBE INSPECTION REPORT

Section 2: Indication Listing

The following tables contain all tubes inspected that had a percent through wall loss indication. This encompasses the location, orientation (if linear), and measured sizes (if available) of service induced indications

The key below provides a description of the abbreviations used in the following tables.

#H, #C	(# = number) of Support Plate(s) Hot Leg or Cold Leg Side
AV#	Anti-Vibration Bar (# = number)
TSH	Tube Sheet Hot Leg
FBC	Flow Baffle Cold Leg
FBH	Flow Baffle Hot Leg

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
25	8	11	AV6	0
27	10	10	AV5	-0.18
30	10	14	AV5	0
38	19	14	AV4	-0.05
40	19	14	AV5	-0.03
35	20	14	AV3	0
40	20	13	AV5	0
38	25	16	AV2	0
39	25	16	AV2	-0.08
45	25	23	AV2	-0.05
45	25	15	AV3	0.03
45	25	20	AV4	0.05
45	25	32	AV5	-0.05
27	26	17	AV5	0
45	26	24	AV3	0.03
45	26	26	AV4	-0.03
45	26	13	AV5	0
40	27	14	AV2	0
48	27	16	AV4	0
48	27	14	AV5	0
44	28	15	AV5	0
37	29	17	AV6	0
38	29	19	AV2	0
38	29	14	AV3	-0.08
45	30	18	AV2	0
45	30	25	AV3	0.1
45	30	14	AV4	0.03
45	30	17	AV5	0.1
50	30	13	AV5	0
23	31	11	AV1	0
41	31	13	AV2	0
41	31	22	AV4	0.11
44	31	17	AV4	-0.13
41	32	12	AV2	-0.17
41	32	20	AV3	-0.14
41	32	15	AV4	-0.11
45	32	13	AV2	-0.11
45	32	22	AV3	-0.11
45	32	35	AV4	-0.23
45	32	27	AV5	-0.1
45	32	15	AV6	-0.06
47	32	17	AV2	0
47	32	35	AV3	0
47	32	28	AV4	0
47	32	15	AV5	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
34	33	17	AV4	0
38	33	16	AV3	0
45	33	28	AV4	0
45	34	15	AV2	0
45	34	17	AV4	0
50	34	19	AV2	0
48	35	15	AV3	0
48	35	15	AV4	0
48	35	19	AV5	0
33	36	20	AV2	0.07
33	36	16	AV3	0.05
33	36	13	AV5	0.23
35	36	18	AV5	0.03
43	36	17	AV3	0
45	36	20	AV2	0
36	37	12	AV3	0.05
36	37	12	AV4	0
37	37	15	AV5	0
38	37	18	AV5	0
45	37	19	AV2	0
45	37	26	AV3	0
45	37	15	AV4	0
45	37	13	AV6	-0.17
48	37	20	AV3	-0.23
30	38	17	AV5	0
40	38	16	AV4	0.03
43	38	17	AV2	0
43	38	38	AV3	0.31
43	38	17	AV4	0
43	38	16	AV5	-0.16
45	38	16	AV1	0
45	38	21	AV3	0.21
45	38	17	AV4	0
48	38	10	TSH	-0.06
39	39	18	AV3	0
39	39	18	AV4	0
39	39	18	AV5	-0.23
39	39	21	AV6	0
44	39	19	AV2	0.16
44	39	14	AV3	-0.08
44	39	32	AV4	0
44	39	27	AV5	0
44	39	14	AV6	0.03
38	40	18	AV2	0.08
38	40	20	AV3	-0.13

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
41	40	18	AV2	-0.03
41	40	14	AV5	0.05
41	40	20	AV6	0
44	40	12	AV3	-0.03
45	40	17	AV3	0
45	40	25	AV4	0.03
46	40	33	AV2	0
46	40	38	AV4	0
46	40	34	AV5	0
27	41	19	AV2	0
27	41	23	AV5	0
28	41	17	AV2	0
28	41	17	AV5	0
38	41	29	AV3	0
38	41	22	AV4	0
40	41	15	AV3	0
40	41	14	AV4	0
44	41	13	AV4	0
44	41	28	AV5	0
44	41	15	AV6	0
45	41	18	AV2	0
45	41	37	AV3	0
45	41	30	AV4	0
45	41	25	AV5	0
45	41	21	AV6	0
27	42	19	AV5	0
30	42	16	AV2	0
36	42	18	AV2	0
36	42	16	AV3	0
36	42	15	AV4	0
36	42	21	AV5	0
36	42	19	AV2	0
36	42	17	AV3	0
36	42	19	AV4	0
36	42	22	AV5	0
40	42	8	AV2	0
40	42	16	AV3	0
40	42	20	AV4	0
40	42	15	AV5	0
40	42	11	AV6	0
56	42	10	AV6	0
28	43	17	AV2	0
36	43	23	AV2	0
41	43	7	AV2	0
41	43	14	AV3	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
41	43	11	AV4	0
41	43	25	AV5	0
41	43	16	AV6	0
57	43	9	AV5	0
30	44	19	AV5	0
35	44	13	AV5	0
38	44	11	AV5	0
41	44	17	AV2	0
41	44	23	AV3	0
41	44	19	AV4	0
41	44	14	AV5	0
43	44	12	AV3	0
44	44	39	AV2	0
44	44	29	AV3	0
44	44	26	AV4	0
44	44	28	AV5	0
44	44	25	AV6	0
28	45	26	AV5	0
28	45	15	AV6	0
35	45	18	AV1	0
35	45	21	AV2	0
36	45	7	AV1	0
36	45	21	AV2	0
36	45	16	AV3	0
36	45	20	AV4	0
36	45	23	AV5	0
36	45	19	AV6	0
37	45	13	AV6	0
38	45	17	AV5	0
39	45	34	AV4	0
39	45	20	AV5	0
40	45	13	AV3	0
40	45	14	AV4	0
41	45	10	AV5	0
41	45	14	AV6	0
43	45	10	AV3	0
44	45	21	AV3	0
44	45	20	AV4	0
44	45	19	AV5	0
44	45	9	AV6	0
26	46	13	AV2	0
28	46	17	AV2	-0.08
28	46	35	AV5	0
28	46	17	AV6	0
35	46	16	AV4	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
38	46	14	AV1	0
38	46	17	AV2	0
38	46	19	AV3	0
38	46	41	AV4	0
39	46	34	AV2	0
39	46	24	AV3	0
39	46	25	AV4	0
43	46	14	AV2	0
43	46	16	AV3	0
43	46	32	AV4	0
43	46	12	AV5	0.07
43	46	11	AV6	0.28
44	46	15	AV2	0
44	46	21	AV3	0
44	46	14	AV4	0
44	46	12	AV5	0
49	46	18	AV3	0
49	46	17	AV4	0
49	46	21	AV3	0
49	46	17	AV4	0
50	46	22	AV3	0
34	47	24	AV2	0
34	47	20	AV3	0
34	47	26	AV5	0
36	47	10	AV3	0
36	47	10	AV5	0
37	47	22	AV3	0
37	47	32	AV4	0
37	47	24	AV5	0
39	47	14	AV2	0.18
39	47	13	AV4	0
39	47	15	AV5	0
40	47	22	AV1	0
40	47	36	AV2	0
40	47	38	AV3	0
40	47	26	AV4	0
40	47	21	AV5	0
40	47	17	AV6	0
42	47	10	AV5	0
44	47	17	AV2	0
36	48	23	AV5	0
37	48	20	AV2	0
37	48	13	AV3	0
38	48	28	AV2	0
38	48	23	AV3	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
38	48	17	AV4	0
38	48	15	AV5	0
40	48	19	AV5	0
22	49	14	AV2	0
36	49	22	AV2	0
36	49	15	AV3	0
36	49	18	AV4	0
40	49	19	AV2	0
40	49	22	AV3	0
40	49	13	AV4	0
40	49	10	AV5	0
36	50	19	AV2	0
36	50	20	AV3	0
36	50	22	AV4	0
36	50	19	AV5	0
36	50	13	AV6	0
38	50	18	AV4	0
39	50	16	AV4	0
27	51	13	AV5	0
35	51	10	AV1	0
49	51	38	AV2	0
49	51	26	AV3	0
49	51	28	AV4	0
49	51	30	AV5	0
49	51	15	AV6	0
38	52	25	AV3	0
38	52	20	AV4	0
38	52	15	AV5	0
40	52	24	AV2	0
40	52	16	AV3	0
40	52	21	AV4	0
40	52	31	AV5	0
40	52	18	AV6	0
43	52	19	AV2	0
33	53	20	AV2	0
33	53	16	AV3	0
34	53	19	AV2	0
36	53	17	AV6	0
40	53	11	AV3	0
42	53	20	AV2	0
42	53	26	AV5	0
49	53	16	AV5	0
49	53	12	AV6	0
35	54	21	AV2	0
36	54	26	AV3	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
36	54	20	AV5	-0.09
40	54	16	AV2	0
41	54	32	AV5	0
42	54	14	AV4	0
42	54	24	AV5	0
18	55	21	AV1	0
38	55	21	AV2	0
38	55	33	AV3	0
38	55	35	AV4	0
42	55	14	AV4	0
35	56	20	AV2	0
44	56	24	AV2	0
44	56	31	AV3	0
44	56	26	AV4	0
44	56	20	AV5	0
19	58	21	AV1	0
19	58	17	AV6	0
31	58	24	AV2	0
40	58	18	AV2	0
40	58	40	AV3	0
40	58	17	AV4	0
40	58	33	AV5	0
40	58	9	AV6	-0.13
41	58	28	AV2	0
41	58	20	AV3	0.09
43	58	28	AV2	0
43	58	22	AV3	0
43	58	24	AV4	0
43	58	18	AV5	0
39	59	19	AV5	0
41	59	22	AV2	0
41	59	28	AV3	0
41	59	19	AV4	0
44	59	30	AV2	0
44	59	32	AV3	0
44	59	21	AV4	0
44	59	17	AV6	0
40	60	43	AV3	0
40	60	32	AV4	0
40	60	28	AV5	0
44	60	26	AV3	0
44	60	23	AV4	0
44	60	18	AV5	0
34	61	22	AV4	0
34	61	12	AV5	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
42	61	23	AV2	0
36	63	11	AV2	0
36	63	14	AV3	0
37	64	16	AV2	0
37	64	15	AV3	0
37	64	16	AV4	0
57	64	16	AV2	0
51	66	18	AV2	0
49	68	20	AV2	0
49	68	16	AV3	0
40	70	15	AV1	0
40	70	35	AV3	0
40	70	30	AV4	0
40	70	16	AV5	0
40	70	13	AV6	0
50	70	30	AV2	0
27	71	14	AV2	0
50	71	21	AV3	0
50	71	22	AV5	0
37	74	18	AV1	0
37	74	34	AV3	0
37	74	34	AV4	0
37	74	33	AV5	0
37	74	17	AV6	0
39	75	17	AV3	0
40	75	31	AV1	0
40	75	13	AV2	0
40	75	35	AV3	0
40	75	25	AV4	0
40	75	38	AV5	0
41	75	19	AV2	0
41	75	18	AV3	0
41	75	17	AV4	0
41	75	29	AV5	0
41	75	14	AV6	0
42	75	21	AV1	0
44	75	20	AV3	0
44	75	18	AV4	0
44	75	22	AV5	0.05
44	75	16	AV6	0
39	76	27	AV2	0.04
44	77	20	AV4	0
58	77	11	AV6	0
34	78	17	AV2	0
34	78	10	AV3	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
34	78	24	AV5	0
39	78	18	AV3	0
39	78	16	AV5	0
39	78	15	AV6	0
39	79	17	AV3	0
39	79	24	AV4	0
39	79	16	AV5	0
27	80	18	AV5	0
34	80	16	AV1	0
34	80	19	AV2	0
39	80	27	AV2	0
39	80	28	AV3	0
39	80	28	AV4	0
39	80	20	AV5	0
39	80	44	AV6	0
40	80	17	AV2	0
39	81	16	AV2	0
39	81	17	AV4	0
39	81	15	AV5	0
44	81	15	AV2	0
46	81	18	AV2	0
48	81	25	AV2	0
48	81	16	AV3	0
48	81	17	AV4	0
48	81	38	AV5	0
56	81	14	AV5	0
56	81	13	AV5	0.18
27	82	17	AV5	0.07
40	82	19	AV2	0
40	82	14	AV3	0
40	82	13	AV4	0
40	82	17	AV5	0
36	83	18	AV1	0
46	83	11	AV1	0
46	83	18	AV2	0
34	84	14	AV2	0
34	84	17	AV3	0
34	84	12	AV4	0
39	84	10	AV1	0
39	84	34	AV2	0
39	84	35	AV3	0
39	84	21	AV4	0
39	84	24	AV5	0
39	84	22	AV6	0
53	84	15	AV5	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
39	85	17	AV2	0
39	85	34	AV3	0
39	85	36	AV4	0
39	85	25	AV5	0
39	85	16	AV6	0
54	85	18	AV5	0
25	86	15	AV5	0
31	86	21	AV5	0
46	86	17	AV1	0
46	86	17	AV2	0
46	86	15	AV3	0
30	87	19	AV5	0
39	87	13	AV2	0
39	87	11	AV3	0
39	87	32	AV4	0
39	87	17	AV6	0
44	87	18	AV2	0
44	87	15	AV3	0
50	87	16	AV1	0
50	87	14	AV3	0
50	87	21	AV4	0
50	87	23	AV5	0
20	88	19	AV6	0
30	88	20	AV2	0
30	88	15	AV5	0
44	89	13	AV2	0
44	89	17	AV3	0
44	89	29	AV4	0
44	89	20	AV5	0
44	89	18	AV6	0
53	89	14	AV3	0
50	90	12	AV4	0
50	90	31	AV5	0
35	91	17	AV1	0
35	91	24	AV4	0
36	91	20	AV2	0
36	91	25	AV4	0
36	91	12	AV5	0
36	91	18	AV6	0
41	91	15	AV6	0
35	92	16	AV3	0
36	92	12	AV2	0
36	92	11	AV5	0
44	92	22	AV4	0
38	93	18	AV5	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "A"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
39	93	14	AV2	0
39	93	28	AV3	0
39	93	16	AV4	0
39	93	15	AV5	0
39	94	14	AV3	0
39	94	16	AV5	0
20	95	14	AV6	0
38	95	12	AV4	0
38	95	18	AV5	0
39	95	18	AV3	0
39	95	21	AV4	0
39	95	10	AV5	0
39	96	18	AV3	0
39	96	19	AV4	0
27	97	15	AV1	0
27	97	19	AV2	0
35	97	15	AV4	0
37	97	14	AV2	0
37	97	14	AV3	0
37	97	17	AV5	0
38	98	21	AV3	0
38	98	24	AV4	0
35	99	17	AV5	0
38	99	23	AV4	0
37	100	12	AV3	0
37	100	17	AV4	0
39	101	13	AV3	0
39	101	18	AV4	0
39	101	14	AV5	0
40	102	20	AV3	0
40	102	16	AV4	0
40	102	14	AV5	0
40	103	13	AV3	0
40	103	13	AV4	0
40	103	11	AV6	0
43	103	16	AV3	0
38	106	11	AV4	0
38	106	13	AV5	0
26	109	15	AV2	0
36	109	14	AV4	0
36	110	13	AV3	0
36	110	27	AV4	0
36	110	35	AV5	0
36	110	15	AV6	0

End of Steam Generator "A"

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
27	8	11	AV1	0
27	8	19	AV6	0
29	10	12	AV1	0
29	10	15	AV2	0
29	10	28	AV5	0
30	10	16	AV2	0
30	10	22	AV5	0
32	11	14	AV2	0
32	11	17	AV6	0
33	11	18	AV2	0
33	11	20	AV5	0
33	11	21	AV6	0
31	12	12	AV5	0
32	12	18	AV5	0
32	12	15	AV6	0
33	12	17	AV2	0
33	12	35	AV4	0
33	12	33	AV5	0
33	12	17	AV6	0
31	13	8	AV5	0
33	13	28	AV4	0
33	13	27	AV5	0
33	13	42	AV6	0
34	13	33	AV3	0
34	13	14	AV4	0
32	14	21	AV4	0
32	14	14	AV5	0
32	14	11	AV6	0
33	14	18	AV2	0
33	14	16	AV3	0
33	14	22	AV4	0.04
35	14	20	AV5	0
33	15	21	AV4	0
35	15	15	AV4	0
36	15	23	AV5	0
33	16	14	AV3	0
33	16	14	AV4	0.13
36	16	10	AV3	0
36	16	26	AV4	0
36	16	12	AV5	0
37	16	20	AV3	0
37	16	24	AV4	0
37	16	19	AV5	0
37	16	20	AV6	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
38	16	15	AV3	0
38	16	25	AV4	0
35	17	24	AV2	0
35	17	26	AV3	0
37	17	15	AV3	0
37	17	28	AV4	0
37	17	20	AV5	0
37	17	18	AV6	0
38	17	12	AV4	0
38	17	15	AV6	0
34	18	17	AV3	0
35	18	15	AV5	0
37	18	11	AV1	0
37	18	10	AV3	0
37	18	14	AV4	0
37	18	13	AV5	0
38	18	14	AV4	0
38	18	11	AV5	0
38	18	12	AV6	0
39	18	17	AV2	0
39	18	21	AV3	0
41	18	16	AV1	0
41	18	17	AV5	0
33	19	21	AV3	0
37	19	14	AV1	0
37	19	26	AV3	0
37	19	15	AV4	0
38	19	11	AV1	0
38	19	26	AV3	0
38	19	10	AV4	0
38	19	16	AV5	0
38	19	12	AV6	0
39	19	31	AV2	0
39	19	24	AV3	0
39	19	22	AV5	0
39	19	19	AV6	0
40	19	16	AV2	0
40	19	15	AV4	0
41	19	15	AV1	0
41	19	41	AV2	0
41	19	30	AV3	0
41	19	24	AV4	0
41	19	30	AV5	0
41	19	21	AV6	0
37	20	14	AV2	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
37	20	9	AV3	0
37	20	15	AV4	0
39	20	23	AV2	0
39	20	30	AV3	0
40	20	20	AV4	0
40	20	14	AV6	0
41	20	10	AV1	0
41	20	23	AV3	0
41	20	34	AV4	0
41	20	41	AV5	0
41	20	29	AV6	0
31	21	12	TSH	0.06
37	21	19	AV2	0
37	21	15	AV4	0
38	21	21	AV2	0
38	21	10	AV3	0
38	21	16	AV4	0
39	21	19	AV3	0
39	21	15	AV5	0
40	21	13	AV4	0
40	21	9	AV5	0
40	21	10	AV6	0
41	21	12	AV1	0
41	21	13	AV2	0
41	21	21	AV5	0
38	22	20	AV3	0
41	22	23	AV2	0
41	22	30	AV3	0
41	22	30	AV5	0
41	22	23	AV6	0
42	22	13	AV4	0
42	22	18	AV5	0
42	22	8	AV6	0
35	23	16	AV3	0
38	23	17	AV5	0
38	23	19	AV6	0.19
40	23	14	AV4	0
40	23	19	AV5	0
43	23	18	AV1	0
43	23	22	AV2	0
43	23	42	AV4	0
43	23	38	AV5	0
43	23	27	AV6	0
39	24	15	AV2	0
39	24	19	AV4	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
42	24	14	AV2	0
42	24	15	AV4	0
39	25	19	AV3	0
39	25	13	AV5	0
41	25	13	AV3	0
41	25	16	AV5	0
43	25	20	AV2	0
43	25	33	AV3	0
43	25	28	AV4	0
43	25	17	AV5	0
43	25	23	AV6	0
44	25	23	AV3	0
44	25	24	AV4	0
44	25	17	AV5	0
45	25	12	AV1	0
45	25	13	AV2	0
45	25	26	AV3	0
45	25	39	AV5	0
45	25	38	AV6	0
46	25	21	AV1	0
46	25	26	AV2	0
46	25	46	AV3	0
46	25	33	AV4	0
46	25	25	AV5	0
46	25	15	AV6	0
47	25	24	AV4	0
37	26	14	AV2	0
37	26	17	AV5	0
37	26	13	AV6	0
47	26	17	AV5	0
47	26	19	AV6	0
48	26	13	AV6	0
41	27	14	AV2	0
41	27	18	AV4	0
41	27	14	AV5	0
43	27	17	AV2	0
43	27	34	AV3	0
43	27	15	AV4	0
43	27	22	AV5	0
43	27	19	AV6	0
44	27	13	AV4	0
45	27	11	AV4	0
47	27	16	AV5	0
47	27	11	AV6	0
49	27	40	AV4	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
49	27	17	AV5	0
42	28	17	AV2	0
42	28	6	AV3	0
45	28	19	AV2	0
45	28	20	AV3	0
45	28	31	AV5	0
45	28	24	AV6	0
46	28	19	AV5	0
47	28	15	AV3	0
47	28	28	AV5	0
47	28	12	AV6	0
48	28	19	AV5	0
48	28	15	AV6	0
49	28	19	AV4	0
49	28	52	AV5	0
49	28	50	AV6	0
1	29	8	FBC	-0.08
44	29	19	AV3	0
46	29	18	AV4	0
46	29	14	AV5	0
49	29	24	AV2	0
49	29	27	AV4	0
49	29	20	AV6	0
1	30	8	FBC	0.31
42	30	14	AV2	0.18
42	30	18	AV3	0
46	30	22	AV3	0
49	30	37	AV2	0
49	30	38	AV3	0
49	30	22	AV4	0
49	30	25	AV5	0
49	30	29	AV6	0
50	30	27	AV6	0
1	31	8	FBC	0.03
1	31	4	FBH	-0.23
1	31	5	FBH	0.27
46	31	16	AV1	0
46	31	24	AV2	0
46	31	33	AV3	0
46	31	39	AV4	0
46	31	36	AV5	0
47	31	18	AV2	0
47	31	12	AV4	0
47	31	31	AV5	0
49	31	20	AV3	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
49	31	14	AV4	0
49	31	22	AV5	0
49	31	25	AV6	0
50	31	22	AV4	0
50	31	23	AV5	0
1	32	4	FBC	-0.31
1	32	2	FBH	-0.3
1	32	2	FBH	0.3
32	32	15	AV3	0
47	32	25	AV4	0
47	32	29	AV5	0
49	32	24	AV3	0
49	32	20	AV4	0
50	32	20	AV2	0
50	32	20	AV2	0
50	32	18	AV3	0
50	32	29	AV4	0
50	32	24	AV5	0
1	33	5	FBC	-0.36
1	33	3	FBH	-0.22
1	33	3	FBH	0.47
37	33	23	AV2	0
37	33	21	AV3	0
47	33	15	AV3	0
47	33	24	AV4	0
47	33	22	AV5	0
47	33	21	AV6	0
48	33	15	AV2	0
48	33	14	AV3	0
48	33	17	AV4	0
52	33	22	AV6	0
33	34	17	AV5	0
35	34	16	AV3	0
48	34	36	AV2	0
48	34	34	AV3	0
48	34	18	AV4	0
48	34	28	AV5	0
48	34	14	AV6	0
37	35	20	AV4	0
37	35	20	AV5	0
45	35	20	AV2	0
45	35	17	AV3	0
45	35	17	AV4	0
45	35	15	AV5	0
53	35	27	AV3	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
53	35	24	AV5	0
54	35	17	AV5	0
43	36	19	AV4	0
39	37	18	AV2	0
39	37	22	AV3	0
39	37	23	AV4	0
39	37	16	AV5	0
41	37	21	AV3	0
41	37	16	AV4	0
49	37	15	AV2	0
49	37	24	AV3	0
49	37	21	AV4	0
49	37	17	AV6	0
51	37	19	AV2	0
42	38	17	AV2	0
42	38	18	AV4	0
42	38	18	AV5	0
43	38	20	AV2	0
43	38	28	AV4	0
43	38	23	AV5	0
46	38	21	AV3	0
46	38	17	AV4	0
46	38	19	AV5	0
49	38	19	AV4	0
49	38	18	AV5	0
44	39	15	AV2	0
44	39	18	AV4	0
45	39	16	AV3	0
46	39	16	AV4	0
46	39	17	AV5	0
48	39	17	AV1	0
48	39	19	AV2	0
48	39	20	AV3	0
48	39	35	AV4	0
48	39	31	AV5	0
48	39	19	AV6	0
49	39	13	AV3	0
52	39	22	AV3	0
52	39	33	AV4	0
52	39	21	AV5	0
38	40	29	AV2	0
38	40	16	AV4	0.11
41	40	13	AV3	0
41	40	21	AV4	0
39	41	19	AV2	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
39	41	20	AV3	0
39	41	18	AV4	0
39	41	11	AV5	0
42	41	14	AV2	0
42	41	26	AV3	0
42	41	18	AV4	0
42	41	19	AV5	0.02
42	41	15	AV6	0
51	41	25	AV1	0
51	41	24	AV2	0
51	41	30	AV3	0
37	42	21	AV4	0
41	42	17	AV4	0
43	42	13	AV5	0
45	42	14	AV2	0
47	42	22	AV4	0
47	42	30	AV5	0
47	42	21	AV6	0
39	43	21	AV2	0
39	43	41	AV3	0
39	43	46	AV4	0
39	43	31	AV5	0
39	43	15	AV6	0
41	43	35	AV2	0
41	43	31	AV3	0
41	43	14	AV4	0
41	43	25	AV5	0
43	43	21	AV2	0
45	43	17	AV3	0
45	43	27	AV4	0
45	43	22	AV5	0
45	43	17	AV6	0
42	44	21	AV4	0
42	44	15	AV5	0
43	44	25	AV2	0
43	44	28	AV3	0
33	45	17	AV4	0
37	45	18	AV1	0
37	45	42	AV2	0
37	45	30	AV3	0
37	45	28	AV4	0
37	45	25	AV5	0
46	45	15	AV3	0
46	45	14	AV4	0
51	45	16	AV4	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
44	46	19	AV2	0
44	46	19	AV5	0
45	46	17	AV2	0
45	46	18	AV3	0
45	46	22	AV6	0
41	47	29	AV2	0
41	47	18	AV4	0
41	47	23	AV6	0
50	47	15	AV4	0
50	47	20	AV5	0
50	47	15	AV6	0
44	48	20	AV5	0
44	49	13	AV4	0
44	49	26	AV5	0
44	49	17	AV6	0
49	49	16	AV2	0
58	49	22	AV1	0
40	50	20	AV3	0
40	50	24	AV4	0
40	50	24	AV5	0
48	50	16	AV1	0
48	50	37	AV3	0
48	50	34	AV4	0
48	50	35	AV5	0
51	50	11	AV1	0
52	50	15	AV2	0
52	50	18	AV3	0
52	50	16	AV5	0
50	51	31	AV2	0
50	51	19	AV4	0
50	51	16	AV5	0
50	51	10	AV6	0
41	52	16	AV2	0
41	52	16	AV3	0
41	52	19	AV4	0
44	52	19	AV2	0
52	52	28	AV2	0
52	52	28	AV3	0
25	53	16	AV2	0
25	53	13	AV5	0
36	53	19	AV2	0
37	53	19	AV4	0
37	53	20	AV5	0
33	54	18	AV2	0
35	54	17	AV3	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
35	54	18	AV4	0
35	54	24	AV5	0
38	54	23	AV3	0
38	54	22	AV4	0
38	54	23	AV5	0
45	54	30	AV2	0
45	54	40	AV3	0
45	54	36	AV4	0
45	54	37	AV5	0
45	54	16	AV6	0
51	54	14	AV2	0
51	54	14	AV3	0
51	54	22	AV4	0
39	55	18	AV1	0
39	55	18	AV4	0
39	55	18	AV6	0
41	55	27	AV3	0
41	55	27	AV4	0
41	55	17	AV5	0
45	55	18	AV2	0
45	55	18	AV3	0
45	55	30	AV4	0
45	55	15	AV5	0
45	55	13	AV6	0
48	55	19	AV3	0
34	56	38	AV2	0
34	56	35	AV5	0
44	56	19	AV6	0
45	56	20	AV1	0
45	56	34	AV2	0
45	56	32	AV3	0
45	56	35	AV4	0
45	56	24	AV5	0
45	56	18	AV6	0
50	56	19	AV2	0
50	56	28	AV3	0
50	56	36	AV4	0
50	56	25	AV5	0
50	57	19	AV2	0
50	57	15	AV3	0
35	58	12	AV2	0.03
50	58	14	AV3	0
50	58	15	AV4	0
50	58	15	AV5	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
50	58	13	AV6	0
41	59	18	AV2	0
45	59	16	AV1	0
45	59	22	AV2	0
45	59	21	AV3	0
45	59	44	AV4	0
45	59	34	AV5	0
45	59	17	AV6	0
50	59	19	AV2	0
50	59	18	AV4	0
50	59	14	AV5	0
50	59	17	AV6	0
35	60	14	AV3	0.1
35	60	31	AV5	0
40	60	12	AV4	0
48	60	12	AV2	0
48	60	38	AV3	0
48	60	31	AV4	0
48	60	25	AV5	0
48	60	26	AV6	0
33	61	21	AV2	0
33	61	22	AV3	0
33	61	15	AV2	0
33	61	17	AV3	0
35	61	15	AV2	0
35	61	22	AV3	0
44	61	13	AV2	0
44	61	22	AV3	0
44	61	16	AV4	0
44	61	23	5H	-0.53
55	62	34	AV1	0.18
55	62	30	AV2	0
55	62	17	AV3	0.25
40	63	17	AV2	0
33	64	17	AV2	0
33	64	16	AV3	0
33	64	23	AV4	0
33	64	16	AV5	0
33	64	14	AV2	0
33	64	11	AV3	0
33	64	19	AV4	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
33	64	12	AV5	0
41	64	21	AV3	0
41	64	19	AV5	-0.4
41	64	17	AV5	0.28
44	64	13	AV2	0
15	65	20	5H	0.03
40	65	11	AV2	0
31	66	17	AV2	0
33	66	13	AV2	0
33	66	11	AV3	0
41	66	19	AV2	0
41	66	21	AV3	0
41	66	28	AV4	0
41	66	24	AV5	0
41	66	26	AV6	0
44	66	14	AV2	0
44	66	14	AV3	0
44	67	16	AV2	0.26
49	67	14	AV3	0
34	68	14	AV2	0
40	68	16	AV2	0
46	68	28	AV2	0
46	68	21	AV3	0
31	69	11	AV1	0
31	69	11	AV2	0
31	69	15	AV5	0
34	69	15	AV2	0
34	69	9	AV3	0
36	69	14	AV3	0
52	69	12	AV1	0
44	70	17	AV1	0
44	70	23	AV2	0
44	70	15	AV3	0
44	70	21	AV5	0
44	70	20	AV6	0
46	70	29	AV2	0
46	70	22	AV3	0
50	70	24	AV2	0
50	70	20	AV3	0
57	70	13	AV5	0
36	71	35	AV1	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
36	71	25	AV2	0
36	71	25	AV3	0
36	71	20	AV4	0
36	71	27	AV5	0
36	71	18	AV6	0
49	71	21	AV3	-0.07
49	71	45	AV4	0
49	71	33	AV5	0
24	72	13	AV2	0.07
32	72	29	AV1	0
32	72	16	AV2	0
32	72	15	AV5	0
36	73	15	AV2	0
36	73	20	AV5	0
39	74	16	AV3	0.18
45	74	16	AV1	0
45	74	12	AV2	0
48	74	28	AV2	0
39	75	11	AV2	0
39	75	16	AV3	0
39	75	17	AV5	0
44	75	13	AV1	0
44	75	19	AV2	0
50	75	13	AV1	0
50	75	42	AV2	0
50	75	33	AV3	0
50	75	20	AV4	0
50	75	35	AV5	0
36	76	16	AV1	0
36	76	15	AV2	0
45	76	19	AV1	0
45	76	24	AV2	0
45	76	30	AV3	0
45	76	51	AV4	0
45	76	25	AV5	0
45	76	19	AV6	0
52	76	13	AV1	0.03
52	76	16	AV2	0
57	76	15	AV4	0.12
57	76	28	AV5	-0.02
39	77	19	AV1	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
39	77	26	AV2	0
39	77	25	AV3	0
39	77	21	AV4	0
39	77	41	AV5	0
39	77	21	AV6	0
44	77	20	AV3	0
39	78	25	AV3	0
41	78	15	AV2	0
46	78	20	AV2	0
50	78	21	AV2	0
50	78	32	AV3	0
50	78	18	AV4	0
28	79	12	AV2	0
28	79	10	AV5	0
33	79	14	AV5	0
39	79	16	AV2	0
42	79	17	AV3	0
36	80	13	AV3	0
36	80	16	AV4	0
39	80	20	AV2	0
39	80	16	AV4	0
50	80	18	AV2	0
50	80	10	AV3	0
56	80	10	AV4	0
37	81	18	AV3	0
37	81	17	AV4	0
43	81	15	AV2	0
43	81	27	AV3	0
43	81	12	AV4	0
43	81	17	AV5	0
45	81	24	AV2	0
45	81	39	AV3	0
45	81	32	AV4	0
45	81	18	AV5	0
47	81	20	AV3	0
49	81	22	AV2	0
51	81	32	AV2	0
51	81	22	AV4	-0.09
51	81	21	AV5	-0.24
24	82	10	AV6	-0.17
43	82	14	AV2	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
43	82	17	AV4	0
45	82	24	AV3	0
49	82	16	AV2	0
39	83	29	AV3	0
39	83	23	AV4	0
40	83	19	AV3	-0.04
44	83	13	AV2	0
48	83	15	AV2	0
48	83	19	AV4	-0.02
20	84	25	AV6	0
32	84	15	AV3	0
32	84	10	AV6	0
41	84	16	AV1	0
41	84	24	AV3	0
41	84	15	AV4	0
41	84	17	AV5	0
46	84	37	AV3	-0.06
46	84	21	AV4	-0.19
24	85	14	AV6	0
35	85	11	AV3	0
35	85	18	AV4	0
46	85	17	AV4	0
49	85	25	AV2	0
49	85	19	AV4	0
49	85	17	AV5	0
50	85	22	AV4	0
50	85	23	AV5	-0.07
50	85	16	AV6	-0.1
26	86	14	AV5	0
40	86	14	AV3	-0.09
41	86	22	AV4	0
28	87	13	AV2	-0.12
30	87	13	AV2	0.07
36	87	16	AV1	0
40	87	19	AV1	0.07
40	87	18	AV2	0
40	87	22	AV3	0
40	87	33	AV4	0
40	87	12	AV5	0
47	87	14	AV1	0
50	87	16	AV4	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
50	87	19	AV5	-0.07
20	88	19	AV1	0
38	88	16	AV2	0.02
38	88	17	AV3	-0.07
45	88	13	AV3	0
45	88	19	AV4	0
45	88	34	AV5	0
49	88	18	AV3	0
49	88	18	AV4	0
53	88	10	AV2	-0.06
36	89	18	AV3	0
38	89	24	AV3	0
38	89	26	AV4	-0.09
38	89	18	AV5	0
48	89	46	AV3	0
48	89	14	AV4	0.08
48	89	28	AV5	0
50	89	20	AV3	0
1	90	4	FBC	-0.39
1	90	4	FBC	0.32
1	90	5	FBH	0.2
36	90	19	AV3	0
36	90	11	AV4	0
36	90	18	AV6	-0.02
39	90	15	AV1	0
39	90	13	AV2	0
45	90	18	AV3	0
53	90	24	AV4	0
53	90	17	AV5	0
53	90	19	AV6	0
1	91	5	FBC	-0.42
1	91	5	FBH	-0.25
32	91	17	AV5	0
49	91	35	AV2	0
49	91	12	AV4	0
49	91	22	AV5	-0.24
1	92	5	FBC	-0.37
1	92	4	FBH	0.02
1	92	2	FBH	-0.28
19	92	12	AV6	0
40	92	17	AV1	0.24

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
40	92	20	AV3	-0.02
40	92	16	AV5	0
43	92	8	AV2	0
43	92	24	AV3	-0.02
43	92	9	AV4	0
43	92	9	AV5	0
45	92	8	AV3	0
45	92	22	AV4	0
45	92	17	AV5	0
49	92	22	AV2	0
49	92	19	AV4	0
49	92	13	AV5	0
1	93	6	FBC	0.23
45	93	13	AV3	0
45	93	20	AV4	0
45	93	24	AV5	0
1	94	2	FBC	0.23
1	94	4	FBH	0.27
39	94	11	AV3	0
41	94	33	AV2	0
41	94	30	AV3	0
41	94	25	AV4	0
41	94	20	AV5	0
41	94	8	AV6	0
43	94	29	AV2	-0.07
43	94	13	AV3	0
43	94	16	AV4	-0.02
43	94	25	AV5	-0.15
44	94	17	AV3	0
35	95	6	AV1	0
35	95	7	AV5	0
38	95	25	AV2	0
41	95	19	AV2	0
41	95	13	AV4	0
41	95	21	AV5	0
44	95	11	AV2	0
44	95	24	AV3	0
45	95	10	AV2	0
45	95	10	AV3	0
45	95	28	AV4	0
45	95	35	AV5	0

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
45	95	15	AV6	0
41	96	14	AV2	0
41	96	25	AV3	0
41	96	13	AV5	0
44	96	20	AV2	0
44	96	32	AV3	0
44	96	15	AV4	0
45	96	19	AV2	0
45	96	27	AV5	0
27	97	15	TSH	-0.78
38	97	18	AV5	-0.1
40	97	19	AV3	0
40	97	20	AV4	0
41	97	25	AV3	0
41	97	36	AV4	0
46	97	23	AV3	0
40	98	22	AV2	0.11
40	98	25	AV3	0.07
40	98	17	AV4	0
38	99	23	AV2	0
38	99	17	AV3	-0.15
41	99	14	AV2	0
43	99	14	AV5	-0.07
34	100	9	AV3	0
38	100	21	AV2	0.02
38	100	20	AV3	0.2
38	100	17	AV5	0
41	100	26	AV2	0
41	100	22	AV3	0
41	100	23	AV4	0
41	100	16	AV5	0
42	100	10	AV3	0.14
42	100	24	AV4	0.2
36	101	14	AV2	0.12
38	101	27	AV3	-0.12
38	101	24	AV4	0
38	101	14	AV5	0.23
40	102	36	AV3	0
40	102	34	AV4	0
34	103	11	AV6	0
36	103	10	AV3	0.11

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
36	103	18	AV4	0.09
38	103	15	AV3	0
38	103	33	AV4	0.15
38	103	19	AV5	0
40	103	21	AV2	0.14
40	103	32	AV3	0
40	103	26	AV4	0
40	103	13	AV5	0
40	103	10	AV6	0
34	104	14	AV3	-0.11
35	104	12	AV5	0
38	104	15	AV3	0
40	104	39	AV2	0.12
40	104	29	AV3	0
40	104	14	AV4	0
40	104	24	AV5	0
40	104	16	AV6	0
35	105	11	AV6	0
38	105	34	AV3	0
38	105	24	AV4	-0.06
34	106	10	AV4	0.11
34	106	10	AV6	-0.04
35	106	19	AV2	0
35	106	16	AV3	0
35	106	13	AV4	0
35	106	14	AV6	0
35	107	20	AV3	0
35	107	18	AV4	0
35	107	15	AV5	0
35	108	28	AV4	0
35	108	12	AV5	0
35	108	16	AV6	0
32	109	12	AV5	-0.1
33	109	17	AV3	0
33	109	20	AV4	0
33	109	23	AV5	0
34	109	10	AV2	0
34	109	7	AV4	-0.16
34	109	11	AV5	0
34	109	9	AV6	-0.1
29	110	10	AV5	-0.09

STEAM GENERATOR TUBE INSPECTION REPORT

Tube Indications on Steam Generator "D"

Row	Column	Indication (% of Wall Thickness)	Location	Inch (+/-) From Location
32	110	14	AV5	0.03
35	110	14	AV3	0
35	110	28	AV4	0
35	110	14	AV6	0
30	111	16	AV2	0
30	111	18	AV6	0
27	113	16	AV2	0.26
30	113	20	AV5	-0.26
30	114	40	AV5	0.23
24	115	17	AV1	0
26	115	17	AV1	0
27	115	13	AV6	-0.19
21	117	14	TSH	-0.15
21	118	8	AV1	0

End of Steam Generator "D"

STEAM GENERATOR TUBE INSPECTION REPORT

Section 3: Inspection Results

Active Degradation Mechanisms Found

The inspection results indicate that AVB wear meets the EPRI PWR Steam Generator Examination Guidelines definition of an Active Damage Mechanism for both Steam Generators A and D.

Identification of Tubes Plugged

A. Steam Generator "A":

Row	Column	Attribution
38	46	AVB Wear
40	58	AVB Wear
40	60	AVB Wear
39	80	AVB Wear
15	60	Administrative
13	68	Administrative

B. Steam Generator "D":

Row	Column	Attribution
49	28	AVB Wear
45	76	AVB Wear
46	25	AVB Wear
39	43	AVB Wear
48	89	AVB Wear
49	71	AVB Wear
45	59	AVB Wear
33	13	AVB Wear
43	23	AVB Wear
37	45	AVB Wear
50	75	AVB Wear
41	19	AVB Wear
41	20	AVB Wear
39	77	AVB Wear
49	27	AVB Wear
45	54	AVB Wear
30	114	AVB Wear

STEAM GENERATOR TUBE INSPECTION REPORT

Total number of Tubes Plugged in Each Steam Generator

Steam Generator	Total Number of Tubes Plugged	Total Percentage Plugged
A	*35	0.62%
B	35	0.62%
C	20	0.36%
D	114	2.03%

*An additional 3 plugs are installed in Steam Generator "A" cold leg only, due to tube sheet drilling errors during manufacturing. No tubes are installed in those locations.

Results of Condition Monitoring

The examination results confirm that the Wolf Creek steam generators currently meet all industry and regulatory structural and leakage integrity guidance. No indications were found to exceed structural limits. No tube pulls or in-situ testing were required.

- AVB wear is an active degradation mechanism in both SGs A and D.
- The maximum observed indication (52% through wall depth, AVB wear) meets the structural requirements.
- Wear (volumetric indications) detected at the top of the tubesheet has not changed since the prior inspection during RF13 (note 1). The likely source of these indications is wear due to a transient foreign object at a prior time. No new wear indications from foreign objects were detected. No foreign objects were found among the tubes with volumetric indications and their neighboring tubes. These indications meet the condition monitoring structural requirements.
- Wear at the flow distribution baffle (FDB) is not increasing (note 1). FDB wear is attributed to a prior application of pressure pulse cleaning of the steam generators. No new indications were reported. These indications meet the condition monitoring structural requirements.
- Wear detected at two tube support plate intersections was attributed to a prior transient foreign object and has not changed since the prior inspection at RF13 (note 1). These indications meet the condition monitoring structural requirements.
- No corrosion related degradation mechanisms were observed.
- No degradation indications were observed related to potential precursor signals such as dents and dings, or interferences such as permeability variations.
- No precursor signals were found in tubes identified as potentially having an elevated residual stress condition.
- No tube-to-tube contact wear was found on any tubes adjacent to tubes that were previously plugged due to AVB wear. Therefore, in accordance with evaluations documented in the Degradation Assessment, stabilization of any previously plugged tubes was not required.
- Two tubes were administratively plugged due to geometric anomalies. During the top of tubesheet inspection, the signals in two tubes were found to be distorted. The source of the distortion was determined to be an inner diameter ridge or scratch extending from within the tubesheet to a few inches above the tubesheet. The ridge in both tubes could be observed as far back as 1994, the first plus point inspection of these tubes. The ridge signals in combination with the transition signal produced a geometry type response. Neither of the signals was analyzed to be an indication of degradation. These tubes were conservatively plugged due to the signal complexity and location.

STEAM GENERATOR TUBE INSPECTION REPORT

- Leakage is not an issue for any indications detected. There is currently no leakage in the Steam Generators.
- Foreign object search and retrieval (FOSAR) activities identified and removed some minor foreign objects from Steam Generators A and D. No potentially damaging foreign objects were observed. Possible loose part (PLP) indications reported by eddy current were further evaluated by visual inspection and bounded using the plus point probe. No degradation was associated with any PLP indication.
- All plugs were found to be in acceptable condition.

Note 1: Small sizing variations were noted but these are within the variability of the sizing technique.