



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379

October 13, 1998

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

Gentlemen:

In the Matter) Docket No. 50-327
Tennessee Valley Authority)

**SEQUOYAH NUCLEAR PLANT (SQN) - UNIT 1 STEAM GENERATOR (SG)
TUBE PLUGGING REPORT AND NOTIFICATION OF UNIT 1 SG TUBE
INSPECTIONS - UNIT 1 CYCLE 9 REFUELING OUTAGE**

As required by SQN Technical Specification (TS) 4.4.5.5.a, this submittal provides a report of SG tube plugging during the Unit 1 Cycle 9 refueling outage. The in-service inspection (ISI) of the Unit 1 SG tubes was completed on September 30, 1998. In accordance with SQN TS 4.4.5.5.b, TVA will submit a special report of the results of this inspection on or before September 30, 1999.

Pursuant to the reporting requirements of TS 4.4.5.5.c, NRC was notified of the SG tube inspections that fell into Category C-3. Notification of these results was made during a telephone conference call on September 29, 1998. In accordance with SQN TS 3/4.4.5, SGs 3 and 4 U-Bend inspections were classified as Category C-3. The initial Row 1 and 2 U-Bend Plus-Point examination samples were 146 tubes in SG 3 and 155 tubes in SG 4. There were two tubes in SG 3 and three tubes in SG 4 that were determined to have primary water stress corrosion cracking (PWSCC). These tubes are located in Row 1. Since 100 percent of the Row 1 and 2 tubes were examined, no expansion was necessary.

TS 4.4.5.5.c also requires a written follow-up report. TVA plans to provide this information in conjunction with SQN's 90-day alternate plugging report.

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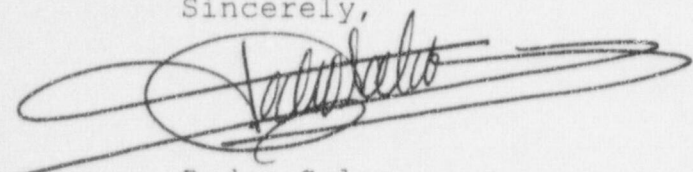
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In accordance with TS 4.4.5.5.d, notification was made to the staff during two conference calls on September 29 and October 2, 1998. The September conference call provided notification regarding four SG tubes having indications attributable to PWSCC. The October conference call provided notification of a tube having both a circumferential and an axial indication in the same tube support plate. This indication was identified initially by bobbin examination as an indication that would require a retest using a rotating coil. The Plus-Point coil identified a circumferential and axial outside diameter stress corrosion cracking at the first hot support plate. This tube was removed from service by plugging.

Enclosed is a summary of the tubes plugged during the Unit 1 Cycle 9 refueling outage.

Please direct questions concerning this issue to me at (423) 843-7170 or J. D. Smith at (423) 843-6672.

Sincerely,



Pedro Salas
Site Licensing and Industry Affairs Manager

cc (Enclosure):

Mr. R. W. Hernan, Project Manager
Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852-2739

NRC Resident Inspector
Sequoyah Nuclear Plant
2600 Igou Ferry Road
Soddy-Daisy, Tennessee 37379-3624

Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303-3415

ENCLOSURE

SEQUOYAH NUCLEAR PLANT

UNIT 1 CYCLE 9 REFUELING OUTAGE

STEAM GENERATOR TUBE PLUGGING REPORT

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 9

SG	ROW	COL	INDICATION	LOCATION	RESOLUTION
1	1	39	SAI	H07+10.57	PLUG
1	2	52	SAI	HTS-.29	PLUG
1	3	59	SAI	H01+.51	PLUG
1	4	54	SAI	HTS-2.01	PLUG
1	7	47	SCI	H01+.00	PLUG
1	9	2	SCI	H01+.01	PLUG/STABILIZE
1	17	55	SAI	H01+.58	PLUG
1	23	88	SAI	H01+.00	PLUG
1	26	41	SCI	HTS-.04	PLUG
1	35	77	SCI	HTS+.00	PLUG/STABILIZE

Total Number of Tubes
Plugged This Generator=10

2	2	92	PTE	HTS+.00	PLUG PREVENTIVELY
2	4	15	PI	H02-.06	FULL/PLUG
2	4	36	SAI	HTS+.15	PLUG
2	8	32	41	H01-.17	PLUG
2	10	25	SCI	HTS-.19	PLUG
2	10	34	36	H01+.06	PLUG
2	11	25	SCI	HTS-.17	PLUG
2	13	17	SCI	HTS-.12	PLUG
2	13	18	SCI	HTS-.14	PLUG
2	14	33	56	H02-.12	PLUG
2	15	29	SCI	HTS-.10	PLUG
2	16	33	MCI	H02+.12	PLUG/STABILIZE
2	16	53	SCI	HTS-.07	PLUG
2	16	78	SAI	HTS-2.74	PLUG
2	17	30	SCI	HTS-.11	PLUG
2	18	30	59	H01-.17	PLUG
2	19	24	SCI	HTS-.08	PLUG

SAI = Single Axial Indication
 SCI = Single Circumferential Indication
 MCI = Multiple Circumferential Indication
 BLG = Bulge
 PTE = Partial Tubesheet Expansion
 PI = Axial ODS/CC where APC applies

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 9

SG	ROW	COL	INDICATION	LOCATION	RESOLUTION
2	22	34	SCI	HTS+.04	PLUG/STABILIZE
2	23	33	SCI	HTS-.03	PLUG
2	25	65	SCI	HTS-.08	PLUG
2	26	27	SCI	HTS-.08	PLUG
2	26	50	SCI	HTS-.06	PLUG
2	29	56	SCI	HTS-.13	PLUG

Total Number of Tubes
Plugged This Generator=23

3	1	89	SAI	H07+3.60	PLUG
3	1	90	SAI	H07+10.45	PLUG
3	3	53	42	H01-.12	PLUG
3	3	58	52	H01-.04	PLUG
3	4	60	SCI	H01+.02	PLUG
3	5	62	30	H01+.00	PLUG
3	6	45	44	H03-.09	PLUG
3	6	54	SCI	H04-.21	PLUG
3	6	64	SAI	HTS-.29	PLUG
3	6	74	55	H01-.30	PLUG
3	7	36	46	H05-.08	PLUG
3	7	54	SCI	H01+.11	PLUG
3	7	76	40	H02-.24	PLUG
3	7	83	40	H01+.37	PLUG
3	8	3	49	H03-.05	PLUG
3	9	67	43	H02+.05	PLUG
3	9	83	18	H01-.07	PLUG
3	9	86	SAI	H01+.01	PLUG
3	10	36	46	H01-.06	PLUG
3	10	41	40	H01-.14	PLUG
3	10	54	SCI	HTS+.06	PLUG
3	10	85	80	H01-.20	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 9

SG	ROW	COL	INDICATION	LOCATION	RESOLUTION
3	11	19	SCI	HTS-.07	PLUG
3	11	74	46	H01-.51	PLUG
3	12	48	SAI	HTS-.19	PLUG
3	12	71	SAI	H01-.06	PLUG
3	12	81	SAI	H01+.67	PLUG
3	14	57	49	H01-.06	PLUG
3	14	84	41	H01-.27	PLUG
3	15	62	SCI	H01+.17	PLUG
3	16	43	SCI	HTS-.12	PLUG
3	16	69	39	H01+.46	PLUG
3	18	74	51	H01+.31	PLUG
3	19	68	SCI	H01+.03	PLUG
3	21	46	SCI	H01+.15	PLUG
3	21	74	SCI	H01+.00	PLUG
3	23	76	57	HC2-.18	PLUG
3	24	80	40	H01-.19	PLUG
3	24	81	SCI	H02-.12	PLUG/STABILIZE
3	24	85	54	H01-.03	PLUG
3	25	62	44	H01+.41	PLUG
3	25	76	SAI	H01+.06	PLUG
3	26	75	SCI	H01-.15	PLUG
3	28	80	SCI	H01+.01	PLUG/STABILIZE
3	29	80	44	H01-.25	PLUG
3	32	70	SCI	H01+.17	PLUG
3	33	79	40	H01-.01	PLUG
3	34	52	41	H01+.12	PLUG
3	34	72	SCI	H02-.10	PLUG/STABILIZE
3	34	76	BLG	HTS+.00	PLUG/STABILIZE
3	35	41	42	AV3+.03	PLUG
3	42	56	BLG	HTS+3.55	PLUG/STABILIZE
3	42	60	44	H03-.11	PLUG
3	43	38	45	H01-.18	PLUG
3	45	52	46	H02-.07	PLUG

Total Number of Tubes
Plugged This Generator=55

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 9

SG	ROW	COL	INDICATION	LOCATION	RESOLUTION
4	1	4	SAI	HTS-.56	PLUG
4	1	27	SCI	H03+.30	PLUG
4	1	77	SCI	H07+3.68	PLUG
4	1	80	SAI	H07+2.93	PLUG
4	1	81	SAI	H07+4.07	PLUG
4	2	11	SCI	H01-.17	PLUG
4	2	56	43	H01-.25	PLUG
4	3	12	SCI	H01+.14	PLUG
4	3	16	SCI	H01-.15	PLUG
4	3	75	49	H02-.10	PLUG
4	4	50	SCI	H01+.30	PLUG
4	5	33	SCI	H01-.24	PLUG
4	6	15	SCI	H03-.07	PLUG
4	6	18	SCI	H03-.25	PLUG
4	7	10	SCI	H01-.19	PLUG
4	7	75	52	H01+.06	PLUG
4	8	46	SAI	HTS-.34	PLUG
4	9	38	SCI	H01+.21	PLUG
4	10	4	40	H01+.03	PLUG
4	11	35	45	H04+.22	PLUG
4	11	77	52	H03-.27	PLUG
4	12	29	SCI	HTS-.09	PLUG
4	13	15	SAI	HTS-.35	PLUG
4	13	37	SCI	HTS-.11	PLUG
4	13	46	SCI	HTS-.15	PLUG
4	13	61	97	H03-.40	PLUG
4	15	59	38	H02-.59	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 9

SG	ROW	COL	INDICATION	LOCATION	RESOLUTION
4	17	11	38	H01+.39	PLUG
4	17	53	40	H01-.14	PLUG
4	18	33	SCI	HTS-.69	PLUG
4	20	44	SCI	H01+.00	PLUG
4	21	57	35	H01+.40	PLUG
4	23	43	43	H01+.39	PLUG
4	25	22	MCI	H01-.03	PLUG
4	26	12	SAI	H01+.00	PLUG
4	26	63	46	H02-.29	PLUG
4	28	24	SCI	H01+.00	PLUG
4	28	52	52	H01-.09	PLUG
4	31	18	57	H01-.33	PLUG
4	38	38	SCI	H01-.11	PLUG/STABILIZE
4	39	36	SCI	H01-.11	PLUG
4	41	27	SAI	HTS-.10	PLUG

Total Number of Tubes
Plugged This Generator=42