



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

March 17, 2000

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 10 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 10 refueling outage. The in-service inspection of the Unit 1 SG tubes was completed on March 12, 2000. 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 March 12, 2001.

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 March 13, 2000. In accordance with SQN TS 3/4.4.5, SG No. 3 and 4 U-Bend inspections were classified as Category C-3. The initial Rows 1 and 2 U-Bend Plus-Point examination samples were 144 tubes in SG No. 3 and 148 tubes in SG No. 4. There were two tubes in SG No. 3 and two tubes in SG No. 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.

DO30

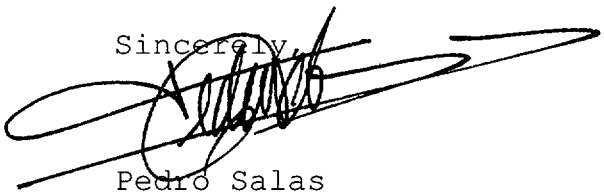
U.S. Nuclear Regulatory Commission  
Page 2  
March 17, 2000

In accordance with SQN TS 4.4.5.5.d, notification was made to the staff in a conference call on March 9, 2000. The conference call provided notification regarding SG tubes having indications attributable to outer-diameter stress corrosion cracking (ODSCC) and PWSCC in the same tube support plate (TSP) locations. In addition, a notification was made during the phone call regarding SG tubes having ODSCC and circumferential crack-like indications in the same TSP locations.

Enclosed is a summary of the tubes plugged during the Unit 1 Cycle 10 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

Enclosure

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 10 REFUELING OUTAGE

STEAM GENERATOR TUBE PLUGGING REPORT

---

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
1	1	7	SAI
1	1	29	SCI
1	1	65	SCI
1	2	88	SCI
1	2	94	SCI
1	7	25	SAI
1	8	3	SVI
1	8	52	SAI
1	8	69	SAI
1	9	59	SCI
1	9	60	SAI
1	10	20	SCI
1	10	33	SCI
1	11	32	SCI
1	11	33	SCI

## STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
1	17	58	SAI
1	17	60	SAI
1	18	46	SAI
1	20	30	SAI
1	20	66	SAI
1	25	47	SCI
1	27	36	SCI
1	27	44	SCI
1	27	85	SCI
1	28	39	SCI
1	29	70	SCI
1	31	13	SVI
1	32	16	SCI
1	34	40	SAI
1	37	70	PVN
1	43	30	SVI

Total Number of Tubes  
Plugged This Generator: 31

## STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
2	1	67	SCI
2	4	40	SCI
2	6	54	PVN
2	6	57	PVN
2	6	59	PVN
2	6	62	PVN
2	6	70	PVN
2	8	25	SAI
2	8	74	PVN
2	11	20	PVN
2	11	31	SCI
2	11	56	SAI
2	11	68	SAI
2	12	37	SCI
2	13	25	SCI
2	14	38	SCI
2	15	30	PI
2	15	36	SVI
2	16	9	PI
2	17	20	SCI
2	17	23	SCI

# STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
2	17	27	SCI
2	17	34	SCI
2	17	43	SCI
2	17	53	SCI
2	18	22	SCI
2	18	24	SCI
2	19	21	SCI
2	19	62	SAI
2	20	27	SCI
2	21	33	SCI
2	22	33	SCI
2	22	40	PVN
2	23	31	SCI
2	23	39	SCI
2	25	29	SCI
2	27	46	PVN
2	28	35	SCI
2	28	53	SCI
2	29	23	SCI
2	29	50	SCI

## STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
2	29	55	SCI
2	29	57	SCI
2	31	40	SCI
2	31	48	PVN
2	33	51	PVN
2	33	78	SCI
2	43	43	PVN

Total Number of Tubes  
Plugged This Generator: 48

# STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
3	1	55	SCI
3	1	65	SAI
3	1	77	SAI
3	2	40	SCI
3	3	63	SAI
3	3	83	SCI
3	4	56	SAI
3	4	67	SAI
3	5	13	SAI
3	5	54	SCI
3	7	34	SAI
3	7	50	SCI
3	7	51	SCI
3	7	53	SCI
3	7	85	SCI
3	8	72	SCI
3	8	76	SAI
3	9	7	PVN
3	9	56	SCI
3	9	73	SCI
3	10	37	SCI



## STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
3	10	40	SAI
3	10	73	SCI
3	10	75	SCI
3	10	88	SAI
3	11	3	SAI
3	11	72	SCI
3	11	83	SCI
3	12	59	SCI
3	12	63	SVI
3	12	79	SCI
3	13	45	SCI
3	14	63	SCI
3	15	56	SCI
3	15	59	SCI
3	16	50	SCI
3	16	64	SAI
3	16	70	SCI
3	17	57	SCI
3	18	75	SAI
3	18	85	SCI
3	19	36	SAI
3	19	81	SCI

# STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
3	19	84	SCI
3	20	29	SAI
3	20	30	PVN
3	21	50	SCI
3	21	60	SCI
3	21	72	SCI
3	23	74	SAI
3	23	82	SCI
3	23	85	SAI
3	24	71	SAI
3	24	79	SCI
3	24	84	SCI
3	25	66	SAI
3	25	67	SCI
3	25	86	INR
3	26	60	SCI
3	26	61	SCI
3	27	73	SCI
3	28	66	SCI
3	28	70	SCI
3	29	73	PI

# STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
3	32	69	SCI
3	34	62	SCI
3	35	57	PVN
3	36	63	SCI
3	38	61	SCI
3	46	42	PI

Total Number of Tubes  
Plugged This Generator: 70

## STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
4	1	76	SCI
4	1	85	SCI
4	3	24	SCI
4	3	47	SAI
4	4	38	SCI
4	5	16	SAI
4	6	68	SCI
4	7	29	SCI
4	8	36	SCI
4	8	50	PVN
4	9	21	SAI
4	9	39	SCI
4	10	26	SCI
4	10	47	SAI
4	11	30	SCI
4	13	31	SCI
4	14	33	SCI
4	15	37	SAI
4	15	42	SAI
4	15	44	SAI

## STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
4	15	57	PVN
4	16	49	SCI
4	16	51	SAI
4	17	28	SCI
4	18	39	SCI
4	18	40	SCI
4	19	62	SCI
4	20	43	SCI
4	20	78	PVN
4	22	38	SAI
4	22	61	SAI
4	24	28	SAI
4	24	33	SCI
4	26	35	SAI
4	28	16	SCI
4	28	18	SAI
4	29	18	SCI
4	31	40	SCI
4	32	24	PI

## STEAM GENERATOR TUBE PLUGGING REPORT

<u>SG</u>	<u>ROW</u>	<u>COL</u>	<u>INDICATION</u>
4	34	43	SCI
4	36	20	SAI
4	36	32	SAI
4	37	69	PVN
4	37	72	PVN
4	38	37	PVN
4	38	45	PVN
4	38	69	PVN
4	41	66	PVN
4	43	47	PVN
4	43	51	PVN
4	44	54	PVN

Total Number of Tubes  
Plugged This Generator: 51

Total Number of Tubes  
Plugged This Outage: 200

SAI = Single Axial Indication  
SCI = Single Circumferential Indication  
INR = Indication Not Recordable  
PVN = Permiability Variation  
PI = Possible Indication