



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

May 1, 1997

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

Gentlemen:

In the Matter of
Tennessee Valley Authority

)
)

Docket No. 50-327

SEQUOYAH NUCLEAR PLANT (SQN) - UNIT 1 STEAM GENERATOR (SG) TUBE
PLUGGING

As required by SQN Technical Specification (TS) 4.4.5.5.a, this submittal provides notification of SG tube plugging during the Unit 1 Cycle 8 refueling outage. The in-service inspection of the Unit 1 SG tubes was completed on April 26, 1997. 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 April 25, 1998.

Enclosed is a summary of the tubes plugged during the Unit 1 Cycle 8 refueling outage.

Please direct questions concerning this issue to D. V. Goodin at (423) 843-7734.

Sincerely,

R. H. Shell

R. H. Shell
Site Licensing and Industry Affairs Manager

Enclosure
cc: See page 2

DD3011

9705080073 970501
PDR ADOCK 05000327
P PDR



070059

U.S. Nuclear Regulatory Commission
Page 2
May 1, 1997

cc (Enclosure):

Mr. R. W. Hernan, Project Manager
Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852-2730

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 Forsythe St., SW, Suite 23T85
Atlanta, Georgia 30323-2711

ENCLOSURE

SEQUOYAH NUCLEAR PLANT

UNIT 1 CYCLE 8 REFUELING OUTAGE

STEAM GENERATOR TUBE PLUGGING SUMMARY

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
Sample: 0					
1	1	53	SAI	PWSCC U-BEND	PLUG
1	2	40	MAI	PWSCC <2V HC	PLUG
1	4	72	SAI	PWSCC <2V HC	PLUG
1	6	94	SAI	PWSCC TSP	PLUG
1	7	72	SAI	PWSCC <2V HC	PLUG
1	11	45	SAI	PWSCC <2V HC	PLUG
1	11	54	SAI	PWSCC HTS	PLUG
1	12	50	SAI	PWSCC TSP	PLUG
1	12	57	MCI	PWSCC HTS CIRC	PLUG
1	12	66	SCI	ODSCC TSP CIRC	PLUG
1	13	54	SAI	PWSCC HTS	PLUG
1	13	57	SCI	PWSCC HTS CIRC	PLUG
1	25	38	SCI	PWSCC HTS CIRC	PLUG
1	25	39	SCI	PWSCC HTS CIRC	PLUG
1	25	41	SCI	PWSCC HTS CIRC	PLUG
1	26	38	SCI	PWSCC HTS CIRC	PLUG
1	30	42	SCI	PWSCC HTS CIRC	PLUG
1	30	83	SAI	PWSCC TSP	PLUG
1	32	57	SAI	PWSCC HTS	PLUG
1	33	73	SAI	PWSCC HTS	PLUG
1	33	78	SAI	ODSCC TSP	PLUG
1	34	57	SAI	PWSCC HTS	PLUG
1	34	59	SAI	PWSCC HTS	PLUG
1	37	44	SCI	PWSCC HTS CIRC	PLUG
1	38	64	SCI	PWSCC HTS CIRC	PLUG
1	39	44	SAI	PWSCC HTS	PLUG
1	39	57	SAI	PWSCC HTS	PLUG
1	39	61	SAI	PWSCC HTS	PLUG
1	40	33	SAI	ODSCC HTS	PLUG
1	40	58	SCI	PWSCC HTS CIRC	PLUG
1	41	32	SAI	ODSCC HTS	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
1	42	42	SCI	PWSCC HTS CIRC	PLUG/STABILIZE
1	44	57	SAI	PWSCC HTS	PLUG
1	45	44	SCI	PWSCC HTS CIRC	PLUG/STABILIZE

Total Number of Tubes
Plugged This Generator 34

Sample: 0

2	1	69	SCI	PWSCC U-BEND CIRC	PLUG
2	3	34	SCI	ODSCC TSP CIRC	PLUG
2	4	32	SAI	PWSCC TSP	PLUG
2	6	10	SAI	PWSCC <2V HC	PLUG
2	11	12	SAI	PWSCC <2V HC	PLUG
2	11	37	SCI	PWSCC HTS CIRC	PLUG
2	12	25	SCI	PWSCC HTS CIRC	PLUG
2	16	22	NONE	PREVENTIVE	PLUG/STABILIZE
2	16	49	SCI	PWSCC HTS CIRC	PLUG
2	17	52	SCI	PWSCC HTS CIRC	PLUG
2	21	34	SCI	PWSCC HTS CIRC	PLUG
2	22	75	SAI	PWSCC HTS	PLUG
2	24	59	SAI	PWSCC HTS	PLUG
2	25	31	SCI	PWSCC HTS CIRC	PLUG
2	26	66	SCI	PWSCC HTS CIRC	PLUG/STABILIZE
2	28	43	RRC	PREVENTIVE	PLUG
2	29	58	MCI	PWSCC HTS CIRC	PLUG
2	30	59	MCI	PWSCC HTS CIRC	PLUG
2	31	49	SCI	PWSCC HTS CIRC	PLUG
2	37	54	SAI	PWSCC HTS	PLUG
2	39	52	PLP	POT.LOOSE PART	PLUG
2	39	53	PLP	POT.LOOSE PART	PLUG

Total Number of Tubes
Plugged This Generator 22

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
Sample: 0					
3	1	36	SAI	PWSCC U-BEND	INSITU-PLUG
3	1	61	SAI	PWSCC <2V HC	PLUG
3	1	87	SCI	PWSCC U-BEND CIRC	PLUG
3	2	52	SAI	PWSCC TSP	PLUG
3	2	59	SAI	PWSCC TSP	PLUG
3	2	64	SAI	PWSCC TSP	PLUG
3	2	88	SCI	PWSCC TSP CIRC	PLUG
3	3	10	SAI	PWSCC <2V HC	PLUG
3	3	48	SAI	PWSCC HTS	PLUG
3	3	92	SAI	PWSCC TSP	PLUG
3	3	94	SCI	ODSCC TSP CIRC	PLUG/STABILIZE
3	4	12	SAI	PWSCC TSP	PLUG
3	4	51	SAI	ODSCC U-BEND	PLUG
3	5	55	SAI	PWSCC TSP	PLUG
3	6	39	SAI	PWSCC HTS	PLUG
3	6	60	MCI	PWSCC TSP CIRC	PLUG
3	6	61	SAI	PWSCC TSP	PLUG
3	6	70	MAI	PWSCC <2V HC	PLUG
3	6	73	SAI	PWSCC TSP	PLUG
3	6	78	SAI	PWSCC TSP	PLUG
3	7	7	SAI	PWSCC <2V HC	PLUG
3	7	32	SAI	PWSCC TSP	PLUG
3	7	44	SAI	PWSCC TSP	PLUG
3	8	20	SCI	PWSCC HTS CIRC	PLUG
3	8	25	SAI	PWSCC HTS	PLUG
3	8	85	SAI	PWSCC TSP	PLUG
3	8	88	SAI	PWSCC TSP	PLUG
3	9	15	SAI	PWSCC TSP	PLUG
3	9	18	SCI	PWSCC HTS CIRC	PLUG
3	9	29	SCI	ODSCC TSP CIRC	PLUG
3	9	45	SAI	PWSCC TSP	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
3	9	46	SAI	PWSCC TSP	PLUG
3	9	66	SAI	PWSCC TSP	PLUG
3	9	78	SAI	PWSCC TSP	PLUG
3	9	91	SAI	PWSCC <2V HC	PLUG
3	10	3	SAI	PWSCC <2V HC	PLUG
3	10	47	SCI	PWSCC TSP CIRC	PLUG
3	10	50	SCI	PWSCC TSP CIRC	PLUG
3	10	79	SCI	ODSCC TSP CIRC	PLUG
3	10	84	SAI	PWSCC TSP	PLUG
3	10	86	SCI	ODSCC TSP CIRC	PLUG
3	11	59	SCI	PWSCC TSP CIRC	PLUG/STABILIZE
3	11	70	SAI	PWSCC TSP	PLUG
3	11	90	SAI	PWSCC <2V HC	PLUG
3	12	6	SAI	PWSCC <2V HC	PLUG
3	12	57	SCI	PWSCC TSP CIRC	PLUG
3	12	60	SAI	PWSCC TSP	PLUG
3	12	85	SAI	PWSCC TSP	PLUG
3	13	84	SAI	PWSCC TSP	PLUG
3	14	65	SAI	PWSCC TSP	PLUG
3	14	73	SAI	PWSCC TSP	INSITU-PLUG
3	14	74	SAI	PWSCC <2V HC	PLUG
3	14	81	SAI	PWSCC TSP	PLUG
3	14	85	SCI	PWSCC TSP CIRC	PLUG
3	15	3	SAI	PWSCC <2V HC	PLUG
3	15	12	SAI	PWSCC <2V HC	PLUG
3	15	55	SAI	PWSCC TSP	PLUG
3	15	77	SAI	PWSCC TSP	PLUG
3	15	92	SAI	PWSCC TSP	PLUG
3	16	62	SAI	PWSCC TSP	PLUG
3	16	67	SCI	PWSCC HTS CIRC	INSITU-PLUG
3	16	83	SCI	PWSCC TSP CIRC	INSITU-PLUG
3	16	85	SAI	PWSCC TSP	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
3	17	14	SAI	PWSCC TSP	PLUG
3	17	21	SAI	PWSCC HTS	PLUG
3	17	52	SCI	PWSCC HTS CIRC	PLUG
3	18	67	SAI	PWSCC TSP	PLUG
3	19	32	SAI	PWSCC TSP	PLUG
3	19	59	SAI	ODSCC TSP	PLUG(EXTRA)
3	19	87	SAI	PWSCC <2V HC	PLUG
3	20	36	SAI	PWSCC <2V HC	PLUG
3	20	75	SCI	PWSCC TSP CIRC	PLUG
3	21	40	SCI	PWSCC TSP CIRC	PLUG
3	21	47	MAI	PWSCC <2V HC	PLUG
3	22	36	SAI	PWSCC TSP	PLUG
3	23	67	SAI	PWSCC TSP	PLUG
3	23	81	SAI	PWSCC TSP	PLUG
3	24	60	SAI	PWSCC TSP	PLUG
3	24	70	SCI	PWSCC HTS CIRC	PLUG/STABILIZE
3	24	86	SAI	PWSCC TSP	PLUG
3	25	85	SAI	PWSCC <2V HC	PLUG
3	26	72	SAI	PWSCC TSP	PLUG
3	26	79	SAI	PWSCC TSP	PLUG
3	27	71	SAI	PWSCC TSP	PLUG
3	27	78	SAI	PWSCC TSP	PLUG
3	29	74	SCI	ODSCC TSP CIRC	PLUG
3	30	71	SAI	PWSCC TSP	INSITU-PLUG
3	31	67	SAI	PWSCC TSP	PLUG
3	31	70	SAI	PWSCC TSP	PLUG
3	31	78	MAI	PWSCC <2V HC	PLUG
3	32	63	MAI	PWSCC TSP	PLUG
3	32	65	SCI	PWSCC TSP CIRC	PLUG
3	32	76	SAI	PWSCC <2V HC	PLUG
3	35	60	SAI	PWSCC TSP	PLUG
3	36	74	SAI	PWSCC TSP	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
3	44	43	SCI	PWSCC TSP CIRC	PLUG
3	44	44	SAI	PWSCC TSP	PLUG
3	44	56	SCI	ODSCC TSP CIRC	PLUG

Total Number of Tubes
Plugged This Generator 98

Sample: 0

4	1	21	SAI	PWSCC TSP	INSITU-PLUG
4	1	23	SAI	PWSCC TSP	PLUG
4	1	35	SCI	ODSCC TSP CIRC	PLUG
4	1	46	SAI	PWSCC TSP	PLUG
4	1	84	SAI	PWSCC U-BEND	INSITU-PLUG
4	2	7	SCI	ODSCC TSP CIRC	PLUG
4	2	28	SAI	PWSCC TSP	PLUG
4	2	55	SCI	PWSCC TSP CIRC	PLUG
4	3	9	SCI	ODSCC TSP CIRC	PLUG
4	3	18	SCI	ODSCC TSP CIRC	PLUG
4	3	25	SCI	PWSCC TSP CIRC	PLUG
4	3	36	SCI	ODSCC TSP CIRC	PLUG
4	3	37	SCI	ODSCC TSP CIRC	PLUG
4	3	39	SCI	PWSCC TSP CIRC	PLUG
4	3	45	SAI	PWSCC TSP	INSITU-PLUG
4	3	49	SAI	PWSCC TSP	PLUG
4	3	83	SAI	PWSCC TSP	PLUG
4	3	84	SAI	PWSCC TSP	PLUG
4	4	25	SAI	PWSCC <2V HC	PLUG
4	4	29	SAI	PWSCC TSP	PLUG
4	4	43	SCI	PWSCC TSP CIRC	PLUG
4	4	45	SCI	ODSCC TSP CIRC	PLUG
4	5	15	SCI	ODSCC TSP CIRC	PLUG
4	5	21	MCI	ODSCC TSP CIRC	PLUG
4	5	39	SAI	PWSCC TSP	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
4	5	40	SAI	PWSCC TSP	PLUG
4	6	25	SAI	PWSCC TSP	PLUG
4	6	31	SCI	PWSCC TSP CIRC	INSITU-PLUG/STABILIZE
4	6	57	SAI	PWSCC TSP	PLUG
4	6	61	SAI	PWSCC HTS	PLUG
4	7	4	SAI	PWSCC <2V HC	PLUG
4	7	11	SCI	ODSCC TSP CIRC	PLUG
4	7	34	SCI	ODSCC TSP CIRC	PLUG
4	7	60	SAI	PWSCC TSP	PLUG
4	8	20	SCI	ODSCC TSP CIRC	PLUG
4	8	29	SCI	ODSCC TSP CIRC	PLUG
4	8	39	SAI	PWSCC <2V HC	PLUG
4	8	40	SCI	ODSCC TSP CIRC	PLUG
4	9	27	MAI	PWSCC TSP	PLUG
4	9	36	SCI	PWSCC TSP CIRC	PLUG
4	9	47	SAI	PWSCC TSP	PLUG
4	9	54	SAI	PWSCC TSP	PLUG
4	9	77	SAI	PWSCC <2V HC	PLUG
4	10	32	SAI	PWSCC TSP	PLUG
4	11	36	SCI	PWSCC TSP CIRC	PLUG
4	11	41	SAI	PWSCC TSP	PLUG
4	11	86	SAI	PWSCC TSP	PLUG
4	11	89	SCI	PWSCC TSP CIRC	PLUG
4	12	27	SCI	PWSCC HTS CIRC	INSITU-PLUG
4	12	32	SCI	PWSCC HTS CIRC	PLUG
4	12	38	SAI	PWSCC TSP	PLUG
4	12	43	SAI	PWSCC TSP	PLUG
4	12	48	SAI	PWSCC TSP	PLUG
4	13	29	SCI	PWSCC HTS CIRC	PLUG
4	13	35	SCI	PWSCC TSP CIRC	PLUG
4	13	36	SCI	ODSCC TSP CIRC	PLUG
4	13	49	SCI	PWSCC HTS CIRC	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
4	13	91	SAI	PWSCC TSP	PLUG
4	14	28	SAI	PWSCC TSP	PLUG
4	14	29	SAI	PWSCC <2V HC	INSITU-PLUG
4	14	40	SCI	PWSCC HTS CIRC	PLUG
4	14	50	SAI	PWSCC TSP	PLUG
4	14	63	SAI	PWSCC TSP	INSITU-PLUG
4	16	33	SCI	PWSCC HTS CIRC	PLUG
4	16	53	SCI	ODSCC TSP CIRC	PLUG
4	17	44	SCI	PWSCC TSP CIRC	PLUG/STABILIZE
4	17	45	SAI	PWSCC TSP	PLUG
4	17	47	SAI	PWSCC TSP	PLUG
4	17	50	SAI	PWSCC TSP	PLUG
4	17	62	SCI	PWSCC TSP CIRC	PLUG
4	18	43	SAI	PWSCC TSP	PLUG
4	19	47	SCI	PWSCC HTS CIRC	PLUG
4	19	65	SCI	PWSCC TSP CIRC	PLUG
4	20	41	SAI	PWSCC TSP	PLUG
4	21	33	SCI	PWSCC HTS CIRC	PLUG
4	22	39	SCI	ODSCC TSP CIRC	PLUG
4	22	48	SCI	ODSCC TSP CIRC	PLUG
4	23	18	SCI	ODSCC TSP CIRC	PLUG
4	23	28	SAI	PWSCC TSP	PLUG
4	23	29	SAI	PWSCC TSP	PLUG
4	23	35	SAI	PWSCC TSP	PLUG
4	23	44	SAI	PWSCC TSP	PLUG
4	23	53	SCI	ODSCC TSP CIRC	PLUG
4	24	12	MAI	PWSCC TSP	PLUG
4	24	30	SAI	PWSCC TSP	PLUG
4	25	13	SAI	PWSCC <2V HC	PLUG
4	25	20	SAI	PWSCC TSP	PLUG
4	25	31	SAI	PWSCC TSP	PLUG
4	25	32	SAI	PWSCC TSP	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
4	26	11	SAI	PWSCC TSP	PLUG
4	26	15	SCI	PWSCC TSP CIRC	PLUG
4	26	24	SCI	PWSCC TSP CIRC	PLUG
4	27	17	SAI	PWSCC TSP	PLUG
4	27	18	SAI	PWSCC TSP	PLUG
4	27	25	SCI	PWSCC TSP CIRC	PLUG
4	27	41	SAI	PWSCC TSP	PLUG
4	28	30	SAI	PWSCC HTS	PLUG
4	29	16	SAI	PWSCC TSP	PLUG
4	29	30	SAI	PWSCC TSP	PLUG
4	30	18	SAI	PWSCC <2V HC	PLUG
4	30	30	SAI	PWSCC TSP	PLUG
4	31	17	SAI	PWSCC TSP	PLUG
4	33	21	SAI	PWSCC TSP	INSITU-PLUG
4	34	24	SAI	PWSCC TSP	PLUG
4	35	26	SAI	PWSCC TSP	PLUG
4	35	27	SAI	PWSCC TSP	PLUG
4	35	34	SCI	PWSCC TSP CIRC	PLUG
4	35	48	SAI	PWSCC TSP	PLUG
4	35	78	SAI	PWSCC HTS	PLUG
4	36	25	SAI	PWSCC TSP	PLUG
4	36	26	SAI	PWSCC TSP	PLUG
4	36	35	SAI	PWSCC <2V HC	PLUG
4	36	42	SAI	PWSCC <2V HC	INSITU-PLUG
4	36	45	SCI	PWSCC TSP CIRC	PLUG
4	36	48	SAI	PWSCC TSP	PLUG
4	37	28	SAI	PWSCC <2V HC	INSITU-PLUG
4	37	38	SCI	PWSCC TSP CIRC	PLUG
4	37	39	SAI	PWSCC TSP	PLUG
4	37	44	SAI	PWSCC TSP	PLUG
4	38	23	SAI	PWSCC TSP	PLUG
4	38	28	SAI	ODSCC TSP	PLUG

Steam Generator 15 Day Plugging Report

Sequoyah Unit 1 Cycle 8

SG	ROW	COL	INDICATION	CHARACTERIZATION	RESOLUTION
4	38	33	SAI	PWSCC TSP	PLUG
4	38	43	SCI	PWSCC TSP CIRC	PLUG
4	38	53	SAI	PWSCC TSP	PLUG
4	38	54	40	AVB WEAR	PLUG
4	39	56	SAI	PWSCC TSP	PLUG

Total Number of Tubes Plugged This Generator	126
---	-----
