



FPL

MAR 05 2001

L-2001-041
10 CFR 50.36

Luis A. Reyes
Regional Administrator
U. S. Nuclear Regulatory Commission
Atlanta Federal Center
61 Forsyth Street, S. W., Suite 23T85
Atlanta, GA 30303

Dear Mr. Reyes:

Re: Turkey Point Unit 3
Docket No. 50-250
Steam Generator Tube Plugging
Inservice Inspection 12-Month Special Report

In accordance with Turkey Point Technical Specification 4.4.5.5.b, the subject Special Report is submitted pursuant to Technical Specification 6.9.2 for Turkey Point Unit 3 as a result of the End of Cycle 17 (EOC 17) inservice inspection of steam generator tubes.

The Turkey Point Unit 3 steam generators were inspected from March 10, 2000, through March 15, 2000. A total of 69 steam generator tubes were plugged as a result of this inspection. Tube plugging for each steam generator is summarized in the following table.

Turkey Point Unit 3 Steam Generator Tube Plugging

Steam Generator	SG 3A	SG 3B	SG 3C
Prior Tubes Plugged	20	28	35
EOC 17 Tubes Plugged	25	28	16
Total Tubes Plugged	45 (1.4%)	56 (1.7%)	51 (1.6%)

EOC 17 tube plugging included five tubes due to mechanical wear at the anti-vibration bars in the u-bend. One of these tubes measured 43% through-wall penetration, which exceeds the plugging limit specified in the Turkey Point Unit 3 and 4 Technical Specification, Section 4.4.5.4.a, and the other four were preventatively plugged prior to exceeding the limit. As was discussed with NRR, this inspection included the first significant examination of the hot leg top-of-tubesheet region with rotating Plus Point® probes that have enhanced detection capabilities. Plus Point® inspections detected sixty-four tubes that contained circumferential or volumetric indications from original manufacturing or possible corrosion degradation. Since the nature of these indications could not be conclusively determined during the inspection, and no comparable baseline data was available, these tubes were conservatively assumed to be defective and were plugged on detection.

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After the EOC 17 Unit 3 inspection, FPL completed inspection of the Unit 4 steam generators (which are of the same design as Unit 3) in October 2000 in which similar indications were reported near the top-of-tubesheet. As was discussed with NRR during this evolution, all circumferentially oriented indications were conclusively shown to be minor geometric variations associated with the tube-to-tubesheet joint fabrication process and were not due to degradation. This supports our belief that our approach for disposition of the circumferential indications at Unit 3 was conservative.

The attached report summarizes the results of the Unit 3 steam generator tubes inservice inspection. The inspection results were classified as Category C-2 in steam generator A, Category C-3 in steam generator B, and Category C-1 in steam generator C, as defined in Technical Specification 4.4.5.2.

Should there be any questions, please contact us.

Very truly yours,



R. J. Hovey
Vice President
Turkey Point Plant

OIH

Attachment

cc: USNRC, Document Control Desk, Washington, D.C.
Senior Resident Inspector, USNRC, Turkey Point Plant

FORM NIS-BB OWNERS' DATA REPORT FOR EDDY CURRENT EXAMINATION RESULTS
As required by the provisions of the ASME CODE RULES

EDDY CURRENT EXAMINATION RESULTS

PLANT: Turkey Point Unit 3

EXAMINATION DATE: March 10, 2000 thru March 15, 2000

STEAM GENERATOR	TOTAL TUBES INSPECTED	TOTAL TUBES 20%-39%	TOTAL TUBES ≥40%, VOL, Circ.	TUBES PREVENTIVELY PLUGGED (PTP)	TUBES PLUGGED THIS OUTAGE	TOTAL PLUGGED TUBES IN S/G
3E210A (Bobbin)	1609	5 ⁽¹⁾	0	2 ⁽²⁾	2 ⁽²⁾	See RPC
3E210B (Bobbin)	1601	4 ⁽¹⁾	0	1 ⁽²⁾	1 ⁽²⁾	See RPC
3E210C (Bobbin)	1627	19 ⁽¹⁾	1	1 ⁽²⁾	2 ⁽²⁾	See RPC
3E210A (RPC)	3194 ⁽⁴⁾	0	23	0	23 ⁽⁵⁾	45
3E210B (RPC)	3186 ⁽⁴⁾	0	27	0	27 ⁽⁵⁾	56
3E210C (RPC)	3179 ⁽⁴⁾	0	14	0	14 ⁽⁵⁾	51

LOCATION OF INDICATIONS
(20% - 100%, VOL & Circ.)

STEAM GENERATOR	AVB Bars	Tube Supports 1 thru 6 C/L	Tube Supports 1 thru 6 H/L	Freespan 6H thru 6C UBEND	Top of Tubesheet to #1 Support C/L	Top of Tubesheet to #1 Support H/L	Total Indications 20%-39%	Total Indications ≥40%, VOL, Circ.
3E210A (Bobbin)	7 ⁽³⁾	0	0	0	0	0		0
3E210B (Bobbin)	6 ⁽³⁾	0	0	0	0	0		0
3E210C (Bobbin)	33 ⁽³⁾	0	0	0	0	0		2 ⁽¹⁾⁽³⁾
3E210A (RPC)	0	0	0	0	n/a	24	n/a	24 ⁽³⁾⁽⁵⁾
3E210B (RPC)	0	0	0	0	n/a	29	n/a	29 ⁽³⁾⁽⁵⁾
3E210C (RPC)	0	0	0	0	n/a	16	n/a	16 ⁽³⁾⁽⁵⁾

Remarks:

- (1) Mechanical wear damage at anti-vibration bars (AVB) was depth sized using qualified bobbin coil sizing technique.
- (2) Two tubes in 3A, one tube in 3B and one tube in 3C were preventatively plugged for AVB wear progression.
- (3) Some tubes may have more than one indication reported.
- (4) Includes tubes in the dent, low row U-bend and hot leg TTS expansion transition programs.
- (5) Includes volumetric (VOL) and circumferential (Circ.) indications.

DATE: 4/4/00

PREPARED BY: *Alfonso Montalbano Jr.*
CSI S/G EDDY CURRENT COORDINATOR

DATE: 4/10/00

REVIEWED BY: *Glenn P. Alfano*
CSI INSPECTIONS SUPERVISOR

DATE: 4/16/00

REVIEWED BY: *H.L. Boyers*
CSI S/G TECHNICAL SPECIALIST

PTN-3 S/G "A"

Indication Report

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ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
28	59	AC002	0.68	0	P 2	23		AV2	0
33	15	AC008	0.64	0	P 2	23		AV3	0
33	41	AC002	1.57	0	P 2	34		AV3	0
33	41	AC002	0.87	0	P 2	26		AV1	0
37	47	AC002	1.01	0	P 2	28		AV3	0
38	45	AC002	0.79	0	P 2	24		AV3	0
38	45	AC002	1.88	0	P 2	37		AV2	0

TOTAL INDICATIONS: 7

TOTAL TUBES: 5

PTN-3 S/G "B"

Indication Report

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ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
32	34	BC001	1.17	0	P 2	27		AV3	0
32	34	BC001	0.8	0	P 2	21		AV1	0
34	46	BC001	1.71	0	P 2	34		AV3	0
34	46	BC001	1.46	0	P 2	31		AV2	0
34	51	BC001	1.41	0	P 2	31		AV2	0
34	53	BC001	0.75	0	P 2	20		AV2	0

TOTAL INDICATIONS: 6

TOTAL TUBES: 4

PTN-3 S/G "C"

Indication Report

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ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
23	45	CC001	0.39	0	P 2	20		AV3	0
24	63	CC001	0.52	0	P 2	24		AV3	0
25	62	CC001	0.47	0	P 2	23		AV3	0
26	58	CC001	0.7	0	P 2	29		AV2	0
26	58	CC001	0.4	0	P 2	20		AV1	0
28	48	CC001	0.5	0	P 2	23		AV2	0
30	31	CC001	0.46	0	P 2	22		AV2	0
30	31	CC001	0.5	0	P 2	23		AV3	0
30	61	CC001	0.59	0	P 2	26		AV2	0
33	31	CC001	0.46	0	P 2	22		AV3	0
33	43	CC002	0.55	0	P 2	26		AV3	0
33	43	CC002	0.37	0	P 2	20		AV2	-0.18
34	31	CC001	0.69	0	P 2	29		AV3	0
34	31	CC001	0.56	0	P 2	25		AV2	0
34	41	CC002	0.62	0	P 2	28		AV2	0
34	41	CC002	0.76	0	P 2	31		AV3	0
34	41	CC002	0.78	0	P 2	32		AV4	0
34	41	CC002	0.78	0	P 2	32		AV1	0
34	44	CC002	0.43	0	P 2	23		AV3	0
35	36	CC002	0.39	0	P 2	21		AV2	0
35	36	CC002	0.53	0	P 2	26		AV3	0

ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
35	43	CC002	0.9	0	P 2	34		AV2	0
35	43	CC002	1.2	0	P 2	38		AV3	0
35	43	CC002	0.74	0	P 2	31		AV4	0
35	43	CC002	0.42	0	P 2	22		AV1	0
35	44	CC002	1.67	0	P 2	42		AV2	0
35	44	CC002	1.68	0	P 2	43		AV3	0
35	44	CC002	0.53	0	P 2	26		AV4	0
35	49	CC002	0.41	0	P 2	22		AV4	0
38	65	CC002	0.51	0	P 2	25		AV2	0
38	65	CC002	0.55	0	P 2	26		AV4	0
38	71	CC002	0.59	0	P 2	27		AV3	0
40	25	CC001	0.39	0	P 2	20		AV2	0.03

TOTAL INDICATIONS: 33

TOTAL TUBES: 19

PTN-3 S/G "A"

Pluggable Report

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ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
3	80	AH064	1.07	19	2	0	CSI	TSH	-0.08
10	31	AH039	0.78	21	2	0	CSI	TSH	-0.15
16	64	AH014	1.02	20	2	0	CSI	TSH	-0.09
17	15	AH069	0.22	38	2	0	CSI	TSH	0.05
17	33	AH054	0.12	95	2	0	CSI	TSH	0.15
18	83	AH060	0.15	101	P 1	0	VOL	TSH	0.1
18	84	AH059	0.28	100	P 1	0	VOL	TSH	0.16
19	84	AH060	0.3	97	P 1	0	VOL	TSH	0.42
19	84	AH060	0.27	88	P 1	0	VOL	TSH	0.94
21	87	AH059	0.08	86	P 1	0	VOL	TSH	0.69
28	75	AH057	0.39	93	P 1	0	VOL	TSH	0.15
29	75	AH058	0.18	84	P 1	0	VOL	TSH	0.05
30	65	AH057	0.07	114	P 1	0	VOL	TSH	0.24
31	77	AH058	0.14	130	P 1	0	VOL	TSH	0.1
32	23	AH043	1.09	18	2	0	CSI	TSH	-0.05
32	63	AH055	0.14	140	2	0	CSI	TSH	0.05
32	64	AH010	0.08	123	2	0	CSI	TSH	-0.01
33	35	AH045	0.07	91	2	0	CSI	TSH	-0.02
33	41	AC002	1.57	0	P 2		PTP	AV3	0
33	78	AH061	0.11	104	P 1	0	VOL	TSH	0.75
34	25	AH045	1.34	16	2	0	CSI	TSH	-0.08
35	65	AH062	0.09	141	P 1	0	VOL	TSH	0.96
36	69	AH062	0.09	122	P 1	0	VOL	TSH	0.21

ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
38	45	AC002	1.88	0	P 2		PTP	AV2	-0
38	66	AH061	0.09	96	P 1	0	VOL	TSH	0.23
39	67	AH062	0.07	112	P 1	0	VOL	TSH	-0.05

TOTAL INDICATIONS: 26

TOTAL TUBES: 25

PTN-3 S/G "B"

Pluggable Report

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ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
1	14	BH025	0.93	24	2	0	CSI	TSH	-0.28
7	92	BH053	0.07	102	2	0	VOL	TSH	0.57
15	17	BH073	0.75	26	2	0	CSI	TSH	-0.06
19	10	BH004	0.13	99	2	0	VOL	TSH	0.24
19	12	BH030	0.21	106	2	0	VOL	TSH	0.54
19	13	BH028	0.61	90	2	0	VOL	TSH	0.25
19	14	BH004	0.29	132	2	0	VOL	TSH	0.29
20	10	BH061	0.11	88	2	0	VOL	TSH	0.03
20	12	BH028	0.13	125	2	0	VOL	TSH	0.21
20	13	BH030	0.19	100	2	0	VOL	TSH	0.03
21	56	BH008	0.04	59	2	0	VOL	TSH	0.43
22	53	BH070	0.07	51	P 1	0	VOL	TSH	0.6
23	7	BH028	0.09	104	2	0	VOL	TSH	0.58
25	34	BH004	0.08	99	2	0	VOL	TSH	0.2
26	71	BH065	0.26	123	P 1	0	VOL	TSH	0.09
33	70	BH044	0.11	97	2	0	CSI	TSH	-0.06
34	46	BC001	1.71	0	P 2		P'P	AV3	0
34	57	BH043	0.33	90	P 1	0	VOL	TSH	0.1
37	46	BH037	0.24	113	2	0	VOL	TSH	0.04
38	39	BH037	0.5	91	2	0	CSI	TSH	0.05
38	39	BH037	0.62	107	2	0	CSI	TSH	-0.06
38	45	BH037	0.23	107	2	0	CSI	TSH	0.06
38	45	BH037	0.15	107	2	0	CSI	TSH	0.2

ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
38	46	BH038	0.19	99	2	0	VOL	TSH	0.59
39	59	BH044	0.08	117	P 1	0	VOL	TSH	0.19
41	43	BH059	0.12	77	2	0	VOL	TSH	0.04
41	65	BH043	0.12	89	P 1	0	VOL	TSH	0.63
43	33	BH059	0.15	69	2	0	VOL	TSH	0.14
44	42	BH006	0.1	130	2	0	VOL	TSH	0.4
45	47	BH040	0.1	67	P 1	0	VOL	TSH	0.64

TOTAL INDICATIONS: 30

TOTAL TUBES: 28

PTN-3 S/G "C" Pluggable Report

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ROW	COL	CAL	VOLTS	DEG	CH	%	IND	SUPPORT	INCHES
1	20	CH068	1.29	21	2	0	CSI	TSH	-0.12
3	46	CH068	0.9	22	2	0	CSI	TSH	-0.05
7	3	CH082	0.15	113	P1	0	VOL	TSH	0.09
15	44	CH068	0.62	34	2	0	CSI	TSH	0.03
22	7	CH069	0.29	119	2	0	VOL	TSH	0.55
23	7	CH080	0.24	112	P1	0	VOL	TSH	0.59
30	69	CH061	1.17	14	2	0	CSI	TSH	-0.03
31	24	CH047	0.14	111	2	0	CSI	TSH	0.16
34	40	CH075	0.61	13	2	0	CSI	TSH	-0.08
34	66	CH077	0.08	128	P1	0	VOL	TSH	0.23
35	43	CC002	1.2	0	P2		PTP	AV3	0
35	44	CC002	1.68	0	P2	43		AV3	0
35	44	CC002	1.67	0	P2	42		AV2	0
36	74	CH076	0.38	13	2	0	CSI	TSH	-0.07
39	49	CH079	0.36	125	P1	0	VOL	TSH	-0.01
40	49	CH072	0.17	87	2	0	CSI	TSH	0.06
40	49	CH072	0.22	107	2	0	CSI	TSH	-0.08
45	49	CH072	0.06	58	2	0	VOL	TSH	1.37
45	49	CH072	0.04	73	2	0	VOL	TSH	2.89

TOTAL INDICATIONS: 19

TOTAL TUBES: 16