



AUG 10 2001
L-2001-175
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 4
Docket No. 50-251
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 4 as a result of the End of Cycle (EOC) 18 inservice inspection of steam generator tubes.

The Turkey Point Unit 4 steam generators were inspected from October 4, 2000, through October 9, 2000. A total of 10 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 4 Steam Generator Tube Plugging

| Steam Generator | SG 4A | SG 4B | SG 4C |
|----------------------|---------------|---------------|---------------|
| Prior Tubes Plugged | 16 | 8 | 9 |
| EOC 18 Tubes Plugged | 3 | 5 | 2 |
| Total Tubes Plugged | 19 (0.59%) | 13 (0.40%) | 11 (0.34%) |

EOC 18 tube plugging included two tubes that were preventively plugged due to mechanical wear: one at the anti-vibration bars in the u-bend region and one at the hot leg baffle plate. An additional tube was plugged due to permeability in the tube sheet expansion transition area. The remaining seven tubes contained possible corrosion degradation, and were plugged on detection since a qualified depth sizing technique is not available.

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The attached report summarizes the results of the Unit 4 steam generator tube in service inspection.

Should there be any questions, please contact us.

Very truly yours,

A handwritten signature in black ink, appearing to read "R. J. Hoyey for".

R. J. Hoyey
Vice President
Turkey Point Plant

OIH

Attachment

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

TURKEY POINT UNIT 4

2000 REFUELING OUTAGE

**Form NIS-BB Owner's Data Report for
Eddy Current Examination Results**

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 4

EXAMINATION DATE: October 4, 2000 thru October 9, 2000

| STEAM GENERATOR | TOTAL TUBES INSPECTED | TOTAL TUBES 20%-39% | TOTAL TUBES ≥40%, PIT & VOL | TUBES PREVENTIVELY PLUGGED (PTP) | TUBES PLUGGED THIS OUTAGE | TOTAL PLUGGED TUBES IN S/G |
|-----------------|-----------------------|---------------------|-----------------------------|----------------------------------|---------------------------|----------------------------|
| 4E210A (Bobbin) | 1602 | 0 | 0 | 0 | 0 | See RPC |
| 4E210B (Bobbin) | 1604 | 1 ⁽¹⁾ | 0 | 1 ⁽²⁾ | 1 ⁽²⁾ | See RPC |
| 4E210C (Bobbin) | 1607 | 3 ⁽¹⁾ | 0 | 1 ⁽³⁾ | 1 ⁽³⁾ | See RPC |
| 4E210A (RPC) | 3242 ⁽⁴⁾ | 0 | 2 | 1 ⁽⁵⁾ | 3 ⁽⁶⁾ | 19 |
| 4E210B (RPC) | 3247 ⁽⁴⁾ | 0 | 4 | 0 | 4 ⁽⁶⁾ | 13 |
| 4E210C (RPC) | 3254 ⁽⁴⁾ | 0 | 1 | 0 | 1 ⁽⁶⁾ | 11 |

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

| 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%, PIT & VOL |
|-----------------|------------------|----------------------------|----------------------------|---------------------------|------------------------------------|------------------------------------|---------------------------|-----------------------------------|
| 4E210A (Bobbin) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4E210B (Bobbin) | 1 ⁽¹⁾ | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 4E210C (Bobbin) | 3 ⁽¹⁾ | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 4E210A (RPC) | 0 | n/a | n/a | 0 | n/a | 2 | n/a | 2 |
| 4E210B (RPC) | 0 | n/a | n/a | 0 | n/a | 4 | n/a | 4 |
| 4E210C (RPC) | 0 | n/a | n/a | 0 | n/a | 1 | n/a | 1 |

Remarks:

- (1) Mechanical wear damage at anti-vibration bars (AVB) was depth sized using qualified bobbin coil sizing technique.
- (2) One tube in 4B was preventatively plugged due to minor wear at the hot leg baffle plate.
- (3) One tube in 4C was preventatively plugged for AVB wear progression.
- (4) Includes tubes in the dent, low row U-bend and hot leg TTS expansion transition programs.
- (5) One tube in 4A was preventatively plugged due to permeability in the hot leg expansion transition area.
- (6) Includes volumetric (VOL) and pit (PIT) like indications.

PTN-4 S/G "B

Indication Report

10/16/00 9:40:28 AM

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| ROW | COL | CAL | VOLTS | DEG | CH | % | IND | SUPPORT | INCHES |
|-----|-----|-------|-------|-----|-----|----|-----|---------|--------|
| 34 | 46 | BC009 | 0.55 | 0 | P 2 | 20 | | AV2 | -0.35 |

TOTAL INDICATIONS: 1

TOTAL TUBES: 1

PTN-4 S/G "C

Indication Report

10/16/00 9:43:24 AM

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| ROW | COL | CAL | VOLTS | DEG | CH | % | IND | SUPPORT | INCHES |
|-----|-----|-------|-------|-----|-----|----|-----|---------|--------|
| 13 | 43 | CC006 | 1.07 | 0 | P 2 | 36 | | AV3 | -0.79 |
| 32 | 70 | CC012 | 0.61 | 0 | P 2 | 24 | | AV1 | -0.09 |
| 35 | 31 | CC013 | 0.67 | 0 | P 2 | 28 | | AV2 | 0.15 |

TOTAL INDICATIONS: 3

TOTAL TUBES: 3

PTN-4 S/G "A

Pluggable Indications

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| ROW | COL | CAL | VOLTS | DEG | CH | % | IND | SUPPORT | INCHES |
|-----|-----|-------|-------|-----|-----|---|-----|---------|--------|
| 12 | 25 | AH009 | 0 | 0 | | 0 | PTP | | 0 |
| 26 | 80 | AH028 | 0.16 | 92 | P 1 | 0 | PIT | TSH | 2.27 |
| 33 | 73 | AH029 | 0.41 | 114 | P 1 | 0 | VOL | TSH | 0.17 |

TOTAL INDICATIONS: 3

TOTAL TUBES: 3

PTN-4 S/G "B**Pluggable Indications**

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| ROW | COL | CAL | VOLTS | DEG | CH | % | IND | SUPPORT | INCHES |
|-----|-----|-------|-------|-----|-----|---|-----|---------|--------|
| 2 | 90 | BH056 | 0 | 0 | P 4 | 0 | PTP | BAH | -0.46 |
| 20 | 80 | 2H025 | 0.23 | 114 | P 1 | 0 | PIT | TSH | 0 |
| 21 | 80 | BH024 | 0.08 | 91 | P 1 | 0 | PIT | TSH | 0.05 |
| 29 | 62 | BH007 | 0.07 | 84 | P 1 | 0 | PIT | TSH | 0.12 |
| 43 | 51 | BH023 | 0.25 | 107 | P 1 | 0 | PIT | TSH | -0.04 |

TOTAL INDICATIONS: 5

TOTAL TUBES: 5

PTN-4 S/G "C**Pluggable Indications**

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| ROW | COL | CAL | VOLTS | DEG | CH | % | IND | SUPPORT | INCHES |
|-----|-----|-------|-------|-----|-----|---|-----|---------|--------|
| 3 | 91 | CH011 | 0.86 | 81 | P 1 | 0 | PIT | TSH | 0 |
| 13 | 43 | CH035 | 0 | 0 | | 0 | PTP | AV3 | -0.79 |

TOTAL INDICATIONS: 2

TOTAL TUBES: 2