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PNP 2014-072

August 5, 2014

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

SUBJECT: 2014 Steam Generator Tube Inspection Report

Palisades Nuclear Plant  
Docket 50-255  
License No. DPR-20

Dear Sir or Madam:

Entergy Nuclear Operations, Inc. is providing the enclosed 2014 steam generator tube inspection report in accordance with Palisades Nuclear Plant Technical Specifications Section 5.6.8, "Steam Generator Tube Inspection Report." The specification requires that the report be submitted within 180 days after entry into mode 4 following completion of the inspection. Mode 4 was entered on March 13, 2014.

Summary of Commitments

This letter contains no new commitments and no revised commitments.

Sincerely,

A handwritten signature in black ink, appearing to read "JAH", followed by a stylized flourish.

jah/jpm

Attachment: Palisades Nuclear Plant Steam Generator Tube Inspection Report for the 2014 Refueling Outage, 1R23, EC 49028

cc: Administrator, Region III, USNRC  
Project Manager, Palisades, USNRC  
Resident Inspector, Palisades, USNRC

A001  
NRR

**ATTACHMENT**

**PALISADES NUCLEAR PLANT**

**STEAM GENERATOR**

**TUBE INSPECTION REPORT**

**for the**

**2014 REFUELING OUTAGE, 1R23**

**EC 49028**

156 pages follow

**PALISADES NUCLEAR PLANT**

**STEAM GENERATOR**

**TUBE INSPECTION REPORT**

**for the**

**2014 REFUELING OUTAGE, 1R23**

**EC 49028**

# **Steam Generator Tube Inspection Report for the 2014 Refueling Outage**

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## **Steam Generator Tube Inspection Report for the 2014 Refueling Outage**

### **Inspection Summary**

Palisades Technical Specification (TS) 5.6.8, Steam Generator Tube Inspection Reports, requires Entergy Nuclear Operations, Inc. (ENO), to submit a report to the Nuclear Regulatory Commission (NRC) within 180 days after initial entry into mode 4 following a steam generator inspection performed in accordance with TS 5.5.8, Steam Generator (SG) Program. The report shall include:

- a. The scope of inspections performed on each SG (Table 1),
- b. Active degradation mechanisms found (Table 2),
- c. Nondestructive examination techniques utilized for each degradation mechanism (Table 3),
- d. Location, orientation (if linear), and measured sizes (if available) of service induced indications (Tables 4A, 4B and 4C),
- e. Number of tubes plugged during the inspection outage for each active degradation mechanism (Table 5),
- f. Total number and percentage of tubes plugged to date (Table 5),
- g. The results of condition monitoring, including the results of tube pulls and in-situ testing, (Table 6), and
- h. The effective tube plugging percentage for all plugging in each SG (Table 5).

ENO performed an inspection of its two Combustion Engineering (CE) SGs in January-February 2014 during refueling outage 1R23. This inspection was the 15<sup>th</sup> in-service inspection (ISI) following SG installation in 1990 and the 2<sup>nd</sup> of 4 scheduled inspections in the 4th sequential inspection period. The unit initially entered mode 4 following this inspection on March 13, 2014.

The TS section 5.5.8b.1 steam generator tube integrity structural integrity performance criterion was satisfied. The TS section 5.5.8b.2 steam generator tube integrity accident induced leakage performance criterion was satisfied. Leakage did not exceed the 0.3 gallon per minute (gpm) accident induced leakage limit. Primary-to-secondary leak rate measured using condenser off-gas (Xenon-135) was measured at 0.0003 gpm for the start of operating cycle 23, finished at < 0.0001 gpm and had a decreasing trend over the cycle.

No leakage was predicted for either operating or accident conditions for the 2012 to 2014 operating cycle due to observed SG tube degradation in the 2014 refueling outage. All plugs installed were Alloy 690 in the Palisades SGs post-operation and are either Westinghouse ribbed mechanical plugs or Areva mechanically rolled plugs. The Westinghouse plugs are leak-tight for all plant conditions. The Areva roll expansion provides a leak-limiting seal between the plug and tube wall.

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The Palisades SGs also contain 308 tubes plugged pre-service in SG E-50A, and 309 tubes plugged pre-service in SG E-50B. Of the tubes plugged pre-service, one tube in SG E-50A and four tubes in SG E-50B are plugged using welded plugs, which are leak tight. The remaining tubes plugged pre-service are plugged using CE Alloy 690 roll plugs. There have been no reported industry events related to corrosion degradation of these Alloy 690 plugs.

Thirteen tubes were plugged in SG E-50A and ten tubes in SG E-50B during the 2014 refueling outage. Refer to Tables 5 and 6 for details.

There were no new damage mechanisms identified in the steam generator eddy current inspection in 2014.

### **Service Induced Indications**

Table 4A provides the location and measured sizes of service induced indications. The majority of these indications are a result of tube indications from axial and circumferential outside diameter stress corrosion cracking (ODSCC). The remaining indications were from tube wear by support structures. There was one loose part location in SG A which caused wear. SG A Row 134 Column 75 and SG A Row 133 Column 74 have single volumetric indication (SVI). These tubes along with four adjoining tubes, Row 132 Column 73, Row 134 Column 73, Row 135 Column 74, and Row 136 Column 75 were plugged and stabilized as a result. The part was not able to be removed. These tubes had no wear indications from the loose part but were stabilized and removed from service by tube plugging to prevent issues due to wear from the loose part in the future.

Tube Row 3 Column 112 in SG E-50B was preventatively plugged due to being restrictive and difficult to acquire eddy current data. Note that eddy current data was acquired over the full length of the tube with No Degradation Detected (NDD).

Tables 4B & 4C provide listings of service induced indications with their location, orientation (if linear), and measured sizes. These two tables list all the wear indications for SG E-50A and SG E-50B identified in eddy current testing including those removed from service by tube plugging.

### **Tube Plugging Summary**

Table 5 provides a summary of the tubes plugged during 1R23 for each active degradation mechanism in each steam generator. This table also includes the total number and percentage of tubes plugged to date along with the effective percentage for all plugging in each SG. No repairs other than plugging (e.g. sleeving) have been performed in the Palisades SGs so the effective plugging is equal to the total plugging. Table 6 provides a list of the individual tubes

## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

### Tube Pulls and In-Situ Pressure Testing

No tubes were pulled in either SG. No tubes required in-situ pressure testing per eddy current inspection results in the 2014 refueling outage.

**Table A**

### Refueling Outage (RFO) Information since Steam Generator Replacement

| Outage | Outage Year | Cycle EFPD | Cumulative EFPY | First Inspection Period (EFPMs) | Second Inspection Period (EFPMs) | Third Inspection Period (EFPMs) | Fourth Inspection Period (EFPMs) |
|--------|-------------|------------|-----------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| 1R9    | 1992        | 298.5      | 0.82            | 9.84                            |                                  |                                 |                                  |
| 1R10   | 1993        | 356.8      | 1.79            | 11.72                           |                                  |                                 |                                  |
| 1R11   | 1995        | 430.5      | 2.97            | 25.87                           |                                  |                                 |                                  |
| 1R12   | 1996        | 407.4      | 4.09            | 39.25                           |                                  |                                 |                                  |
| 1R13   | 1998        | 419.6      | 5.24            | 53.04                           |                                  |                                 |                                  |
| 1R14   | 1999        | 449.3      | 6.47            |                                 | 7.80                             |                                 |                                  |
| 1R15   | 2001        | 401.3      | 7.57            |                                 | 20.98                            |                                 |                                  |
| 1R16   | 2003        | 444.3      | 8.78            |                                 | 35.58                            |                                 |                                  |
| 1R17   | 2004        | 493.1      | 10.13           |                                 | 51.78                            |                                 |                                  |
| 1R18   | 2006        | 487.9      | 11.47           |                                 |                                  | 7.81                            |                                  |
| 1R19   | 2007        | 459.3      | 12.73           |                                 |                                  | 22.90                           |                                  |
| 1R20   | 2009        | 499.8      | 14.09           |                                 |                                  | 39.32                           |                                  |
| 1R21   | 2010        | 507.7      | 15.48           |                                 |                                  | 56.00                           |                                  |
| 1R22   | 2012        | 504.0      | 16.84           |                                 |                                  |                                 | 12.54                            |
| 1R23   | 2014        | 513.3      | 18.25           |                                 |                                  |                                 | 29.14                            |

EFPD = effective full power days  
EFPM = effective full power months  
EFPY = effective full power years

## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 1**  
**Scope and Extent of Tubes Inspected**

| Scope   | Probe Type | SG E-50A | SG E-50B |
|---|------------|----------|----------|
| Full Length <sup>①</sup>  | Bobbin     | 100%     | 100%     |
| Row 1 through 3 U-bends   | MRPC       | 100%     | 100%     |
| Hot Leg Tubesheets TTS+3"/-13.5"  | MRPC       | 100%     | 100%     |
| Cold Leg Outer Three Periphery Tubes TTS+3"/-2" for detection of possible loose parts or wear signals | MRPC       | 12.0%    | 12.1%    |
| Freespan Dings > 5.0 Volts between TSH and TSC in both SGs  | MRPC       | 100%     | 100%     |
| Vertical Strap, Diagonal Bar Dents & Eggcrate Dents $\geq$ 2.0 Volts                                  | MRPC       | 100%     | 100%     |
| Historical Wear at Eggcrates  | MRPC       | 100%     | 100%     |
| Historical Wear at Diagonal Bars and Vertical Straps  | MRPC       | 25%      | 25%      |
| Supplemental <sup>②</sup>   | MRPC       | 100%     | 100%     |
| Plug Visual   | N/A        | 100%     | 100%     |

① Except the bend portion of rows 1 through 3

② All DDI, DSI, NQI, PLP (Bound MRPC PLPs), PVN and new wear indications.

**Table 2**  
**Active Damage Mechanisms**

| SG      | Location   | Damage Mechanism      |
|---------|--|-----------------------|
| E-50A&B | Diagonal bar (DB) support wear   | Wear                  |
| E-50A&B | Vertical strap (VS) support wear   | Wear                  |
| E-50A&B | Eggcrate (EC) support wear   | Wear                  |
| E-50A&B | Foreign object (FO) wear   | Wear                  |
| E-50A&B | Axial outer diameter stress corrosion cracking (ODSCC) at hot leg EC intersections | Axial ODSCC           |
| E-50A&B | Axial ODSCC at hot leg top-of-tubesheet (TTS) locations                            | Axial ODSCC           |
| E-50A&B | Circumferential ODSCC at hot leg top-of-tubesheet (TTS) locations                  | Circumferential ODSCC |

### Nondestructive Examination Techniques

Beginning on the next page, Table 3 lists the nondestructive examination techniques utilized for each degradation mechanism.



## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

| <b>Table 3</b><br><b>Eddy Current Technique Palisades 1R23</b> |                   |                    |  |                               |                  |               |
|--|-------------------|--------------------|--|-------------------------------|------------------|---------------|
| <b>Degradation Mechanism</b>                                   | <b>Probe Type</b> | <b>EPRI ETSS</b>   | <b>Demonstrated Applicability</b>  | <b>Extended Applicability</b> | <b>Detection</b> | <b>Sizing</b> |
| <b>BOBBIN</b>  |                   |                    |  |                               |                  |               |
| Tube to Tube Wear  | Bobbin            | 13091.1<br>Rev. 0  | Freespan tube-to-tube wear at 190 kHz  | None                          | Yes              | CMOA          |
| Axial ODSCC  | Bobbin            | I28413<br>Rev. 3   | Freespan (excluding u-bend), eggcrate, sludge pile, & broached TSPs with or without dents $\leq 2V_{pp}$ | None                          | Yes              | No            |
| Axial ODSCC  | Bobbin            | 24013.1<br>Rev. 2  | Freespan including dings $\leq 5v$   | None                          | Yes              | No            |
| Foreign Object Wear  | Bobbin            | 27091.2<br>Rev. 1  | Foreign object wear (part not present); I-690 tubing   | Extended for I-600 tubing     | Yes              | CMOA          |
| Support Wear   | Bobbin            | 96004.1<br>Rev. 13 | AVBs, TSPs, vertical and diagonal straps   | None                          | Yes              | CMOA          |

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| <b>Table 3</b><br><b>Eddy Current Technique Palisades 1R23</b> |                   |   |  |                               |                  |                            |
|--|-------------------|---|--|-------------------------------|------------------|----------------------------|
| <b>Degradation Mechanism</b>                                   | <b>Probe Type</b> | <b>EPRI ETSS</b>  | <b>Demonstrated Applicability</b>  | <b>Extended Applicability</b> | <b>Detection</b> | <b>Sizing</b>              |
| Pitting  | Bobbin            | 96005.2<br>Rev. 9   | Freespan in the presence of copper   | Sludge Pile                   | Yes              | CMOA                       |
| <b>Axial ODSCC</b>   |                   |   |  |                               |                  |                            |
| Axial ODSCC  | +Point™           | I28424<br>Rev. 3<br>(detect);<br><br>I28431<br>Rev. 2<br>(sizing) | TSP (with or without dents <=2vpp) and sludge pile                                 | None                          | Yes              | BED: CMOA<br><br>BEL: CMOA |
| Axial ODSCC  | +Point™           | I28425<br>Rev. 3<br>(detect)<br><br>I28432<br>Rev.2<br>(sizing)   | Freespan (excluding u-bend), eggcrate, & broached TSPs with or without dents ≤2Vpp | None                          | Yes              | BED: CMOA<br><br>BEL: CMOA |
| Axial ODSCC  | +Point™           | 10411.1<br>Rev. 0   | Low Row U-bends  | Higher Row U-bends            | Yes              | CMOA                       |

## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

| <b>Table 3</b><br><b>Eddy Current Technique Palisades 1R23</b> |                   |                    |  |                                 |                  |   |
|--|-------------------|--------------------|--|---------------------------------|------------------|---|
| <b>Degradation Mechanism</b>                                   | <b>Probe Type</b> | <b>EPRI ETSS</b>   | <b>Demonstrated Applicability</b>                              | <b>Extended Applicability</b>   | <b>Detection</b> | <b>Sizing</b>                                     |
| Axial ODSCC  | +Point™           | 21409.1<br>Rev. 7  | Support structures, freespan, sludge pile, & tubesheet crevice | U-bends                         | Yes              | PDA:<br>Information<br><br>Length:<br>Information |
| Axial ODSCC  | +Point™           | 22401.1<br>Rev. 4  | Dented TSPs  | Freespan dings & dented AVBs    | Yes              | Depth:<br>Information<br><br>Length:<br>CMOA      |
| Axial PWSCC  | +Point™           | 20511.1<br>Rev. 8  | Expansion Transitions  | Tubesheet & non-dented supports | Yes              | PDA:<br>Information<br><br>Length:<br>CMOA        |
| Axial PWSCC  | +Point™           | 96703.1<br>Rev. 17 | Dents  | Tubesheet & non-dented supports | Yes              | Depth:<br>CMOA<br><br>Length:<br>CMOA             |
| Axial PWSCC  | +Point™           | 96511.2<br>Rev. 16 | Low Row U-bends  | Higher Row U-bends              | Yes              | CMOA  |
| Axial PWSCC  | +Point™           | 99997.2<br>Rev. 10 | Low Row U-bends  | Higher Row U-bends              | Yes              | CMOA  |

## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

| <b>Table 3</b><br><b>Eddy Current Technique Palisades 1R23</b> |                   |                          |                                   |                               |                  |  |
|--|-------------------|--------------------------|-----------------------------------|-------------------------------|------------------|--|
| <b>Degradation Mechanism</b>                                   | <b>Probe Type</b> | <b>EPRI ETSS</b>         | <b>Demonstrated Applicability</b> | <b>Extended Applicability</b> | <b>Detection</b> | <b>Sizing</b>  |
| <b>Circ ODSCC</b>  |                   |                          |                                   |                               |                  |  |
| Circ ODSCC   | +Point™           | 21410.1<br>Rev. 6        | Expansion Transitions             | None                          | Yes              | Depth:<br>Information<br><br>PDA:<br>CMOA<br>Length:<br>CMOA |
| Circ ODSCC   | +Point™           | 22842.1<br>Rev. 4        | Dented Supports                   | Freespan dings                | Yes              | CMOA   |
| Circ ODSCC   | +Point™           | EPRI<br>TR-107197-<br>P1 | Expansion Transitions             | None                          | Sizing           | PDA:<br>CMOA<br>Depth:<br>CMOA                               |
| <b>Circ PWSCC</b>  |                   |                          |                                   |                               |                  |  |
| Circ PWSCC   | +Point™           | I11524<br>Rev. 0         | Expansion Transitions             | None                          | Yes              | No   |
| Circ PWSCC   | +Point™           | 20510.1<br>Rev. 7        | Expansion Transitions             | U-bends                       | Yes              | CMOA   |
| Circ PWSCC   | +Point™           | 96511.2<br>Rev. 16       | Low Row U-bends                   | Higher Row U-bends            | Yes              | For information only   |
| Circ PWSCC   | +Point™           | 96701.1<br>Rev. 12       | Expansion Transitions             | Dents and tubesheet           | Yes              | CMOA   |

## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

| <b>Table 3</b><br><b>Eddy Current Technique Palisades 1R23</b> |                         |                     |  |   |                  |                      |
|--|-------------------------|---------------------|--|---|------------------|----------------------|
| <b>Degradation Mechanism</b>                                   | <b>Probe Type</b>       | <b>EPRI ETSS</b>    | <b>Demonstrated Applicability</b>      | <b>Extended Applicability</b>               | <b>Detection</b> | <b>Sizing</b>        |
| Circ PWSCC   | +Point™                 | 99997.2<br>Rev. 10  | Low Row U-bends                        | Higher Row U-bends                          | Yes              | For information only |
| <b>Wear</b>  |                         |                     |  |   |                  |                      |
| Tube to Tube Wear  | +Point™                 | 13901.1<br>Rev. 0   | Freespan tube-to-tube wear at 300 kHz  | None  | Yes              | CMOA                 |
| Wear   | +Point™                 | 10908.4<br>Rev. 1   | AVBs, Eggcrates                        | Foreign object wear (part present)          | Yes              | CMOA                 |
| *Foreign Object Wear   | +Point™ or .115 Pancake | 27901 through 27907 | Foreign object wear (part not present) | Volumetric Freespan Wear (part not present) | Yes              | CMOA                 |
| <b>Pitting</b>   |                         |                     |  |   |                  |                      |
| Pitting  | +Point™                 | 21998.1<br>Rev. 4   | Volumetric in freespan                 | Sludge Pile                                 | Yes              | CMOA                 |
| <b>Specialty Probes</b>  |                         |                     |  |   |                  |                      |

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| <b>Table 3</b><br><b>Eddy Current Technique Palisades 1R23</b> |                   |                   |  |                               |                  |   |
|--|-------------------|-------------------|--|-------------------------------|------------------|---|
| <b>Degradation Mechanism</b>                                   | <b>Probe Type</b> | <b>EPRI ETSS</b>  | <b>Demonstrated Applicability</b>        | <b>Extended Applicability</b> | <b>Detection</b> | <b>Sizing</b>   |
| Axial ODSCC  | Ghent**           | 20407.1<br>Rev. 7 | Support structures & freespan            | None                          | Yes              | Both:<br>CMOA<br><br>Avg. Depth/<br>Length<br>applies to<br>technique |
| Axial PWSCC  | Ghent**           | 20508.1<br>Rev. 6 | Expansion Transitions                    | None                          | Yes              | CMOA<br><br>Length<br>applies to<br>technique                         |
| Axial PWSCC  | Ghent**           | 20509.1<br>Rev. 5 | Dented support structures                | None                          | Yes              | Not<br>qualified  |
| Circ ODSCC   | Ghent**           | 20406.1<br>Rev. 7 | Top of tubesheet & expansion transitions | None                          | Yes              | CMOA<br><br>Depth/<br>Length/<br>PDA apply<br>to<br>technique         |
| Circ PWSCC   | Ghent**           | 20507.1<br>Rev. 6 | Expansion Transitions                    | None                          | Yes              | CMOA  |

\* There are multiple ETSSs available for depth sizing of foreign object wear, each depending on the shape of the wear scar and the coil being used. If foreign object wear (with no part present) is reported, an

## **Steam Generator Tube Inspection Report for the 2014 Refueling Outage**

appropriate +Point™ or pancake coil technique will be selected for performing CMOA. The associated NDE uncertainties and CMOA limits will be documented in the CMOA report.

\*\* The Ghent probe will only be used if needed for clarification of the eddy current response or for additional sizing information associated with unusual or unexpected indications.

## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4A Location and Measured Sizes of Service Induced Indications**

### Axial ODSCC Indications

| SG   | Row | Col. | Location  | +Point 300<br>kHz<br>Amplitude<br>(Vpp) | NDE Maximum<br>Depth (%TW)<br>(Note 1) | NDE Axial<br>Length (in.) | Structural<br>Length (in.) | Structural<br>Depth (%TW)<br>(Note 1) |
|--|-----|------|-----------|---|--|---------------------------|----------------------------|---------------------------------------|
| SGA  | 23  | 118  | 01H -0.81 | 0.30                                    | 42.81                                  | 0.27                      | -                          | -                                     |
| SGA  | 33  | 52   | TSH +0.35 | 0.225*                                  | 42.21                                  | 0.24                      | 0.19                       | 35.3                                  |
| SGA  | 33  | 52   | TSH +0.63 | 0.73*                                   | 61.69                                  | 0.28                      | 0.19                       | 53.9                                  |
| SGB  | 23  | 46   | TSH +0.43 | 0.615*                                  | 58.85                                  | 0.20                      | 0.14                       | 52.0                                  |
| SGB  | 23  | 110  | 01H -0.23 | 0.27                                    | 40.61                                  | 0.96                      | -                          | -                                     |
| SGB  | 29  | 106  | 01H -0.28 | 0.35*                                   | 46.03                                  | 1.51                      | 0.6                        | 41.0                                  |
| SGB  | 76  | 95   | TSH +1.40 | 0.41                                    | 52.14                                  | 0.39                      | -                          | -                                     |
| SGB  | 82  | 115  | 01H -0.97 | 0.38                                    | 47.75                                  | 0.14                      | -                          | -                                     |
| <p>Note 1) The NDE maximum depth values were calculated using the Appendix I regression techniques (%TW as function of NDE voltage) and then reduced by 11 %TW as identified in the Entergy Appendix I deviation. Both the NDE Maximum Depth and Structural Depth values, shown in this table, reflect the 11 %TW reduction.</p> <p>* The average voltage (average of lead-in and lead-out) was used for the indications that received line by line sizing; hence, these voltages are not be found in FDMS and can result in three digits.</p> |     |      |           |   |  |                           |                            |                                       |



## Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4A Location and Measured Sizes of Service Induced Indications**

### Circumferential ODSCC Indications

| SG  | Row | Col | Location  | +Point 300 kHz<br>Amplitude (Vpp) | NDE Percent<br>Degraded Area<br>(PDA)<br>(Note 1) | Circumferential<br>Length (deg.) |
|---|-----|-----|-----------|-----------------------------------|---|----------------------------------|
| SGA   | 24  | 49  | TSH +0.24 | 0.43                              | 4.90  | 54                               |
| SGA   | 40  | 51  | TSH +0.12 | 0.39                              | 6.38  | 101                              |
| SGA   | 40  | 51  | TSH -0.08 | 0.30                              | 4.90  | 50                               |
| SGA   | 56  | 59  | TSH -0.15 | 0.30                              | 9.33  | 77                               |
| SGA   | 76  | 79  | TSH +0.13 | 0.29                              | 9.38  | 70                               |
| SGA   | 105 | 104 | TSH -0.03 | 0.25                              | 2.92  | 54                               |
| SGB   | 28  | 51  | TSH +0.07 | 0.40                              | 11.7  | 77                               |
| SGB   | 74  | 75  | TSH -0.05 | 0.35                              | 2.2   | 50                               |
| Note 1) All Circumferential indications were sized using the EPRI Draw Program which measured depths circumferentially from which a Percent Degraded Area (PDA) was calculated. |     |     |           |                                   |   |                                  |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|----|----|-----|--------|------------------|----------|-----------|-----|
| 1  | A  | 1   | 2      | 12               | 04C      | -1.04     | <TS |
| 2  | A  | 1   | 2      | 9                | 02H      | 0.87      | <TS |
| 3  | A  | 1   | 128    | 11               | 02C      | 0.92      | <TS |
| 4  | A  | 1   | 136    | 13               | 02H      | -0.95     | <TS |
| 5  | A  | 1   | 140    | 6                | DBH      | -0.99     | <TS |
| 6  | A  | 1   | 150    | 18               | 02C      | 0.87      | <TS |
| 7  | A  | 1   | 150    | 12               | 01C      | -0.15     | <TS |
| 8  | A  | 1   | 162    | 10               | 01C      | 0.88      | <TS |
| 9  | A  | 2   | 7      | 9                | 02H      | 0.76      | <TS |
| 10 | A  | 2   | 9      | 11               | 02C      | -0.98     | <TS |
| 11 | A  | 2   | 31     | 11               | 03H      | 0.85      | <TS |
| 12 | A  | 2   | 127    | 19               | 05C      | 0.44      | <TS |
| 13 | A  | 2   | 127    | 10               | DBH      | 1.19      | <TS |
| 14 | A  | 2   | 159    | 11               | 03C      | -0.13     | <TS |
| 15 | A  | 3   | 14     | 10               | 04C      | 0.86      | <TS |
| 16 | A  | 3   | 128    | 15               | 02C      | 0.85      | <TS |
| 17 | A  | 3   | 144    | 10               | 04H      | 0.81      | <TS |
| 18 | A  | 3   | 164    | 10               | 03H      | -0.89     | <TS |
| 19 | A  | 3   | 164    | 12               | 02C      | 0.83      | <TS |
| 20 | A  | 4   | 55     | 14               | DBC      | 0.38      | <TS |
| 21 | A  | 4   | 115    | 13               | 04C      | 0.87      | <TS |
| 22 | A  | 4   | 137    | 13               | 02C      | 0.87      | <TS |
| 23 | A  | 4   | 157    | 13               | 02C      | 0.89      | <TS |
| 24 | A  | 4   | 157    | 10               | 02C      | -0.17     | <TS |
| 25 | A  | 5   | 38     | 11               | 03H      | 0.92      | <TS |
| 26 | A  | 5   | 130    | 13               | 02C      | 0.91      | <TS |
| 27 | A  | 5   | 132    | 9                | 03C      | -0.91     | <TS |
| 28 | A  | 6   | 131    | 6                | 02H      | -0.06     | <TS |
| 29 | A  | 6   | 147    | 12               | 04H      | -0.91     | <TS |
| 30 | A  | 8   | 161    | 11               | 02C      | -0.91     | <TS |
| 31 | A  | 9   | 2      | 17               | 02C      | 0.19      | <TS |
| 32 | A  | 9   | 4      | 9                | 02C      | -0.17     | <TS |
| 33 | A  | 9   | 32     | 14               | DBC      | 1.42      | <TS |
| 34 | A  | 9   | 36     | 13               | 02H      | -0.86     | <TS |
| 35 | A  | 10  | 7      | 12               | 02C      | 0.83      | <TS |
| 36 | A  | 10  | 21     | 12               | 04H      | 0.9       | <TS |
| 37 | A  | 10  | 29     | 9                | 02H      | 0.87      | <TS |
| 38 | A  | 10  | 39     | 12               | 05H      | -0.06     | <TS |
| 39 | A  | 10  | 165    | 13               | DBH      | 1.59      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|----|----|-----|--------|---------------------|----------|-----------|-----|
| 40 | A  | 11  | 4      | 8                   | 02C      | -0.19     | <TS |
| 41 | A  | 11  | 146    | 13                  | 03C      | 0.92      | <TS |
| 42 | A  | 12  | 3      | 15                  | 02C      | 0.82      | <TS |
| 43 | A  | 12  | 7      | 8                   | 02C      | -0.9      | <TS |
| 44 | A  | 12  | 123    | 15                  | DBH      | 0.96      | <TS |
| 45 | A  | 12  | 133    | 10                  | 03C      | 0.17      | <TS |
| 46 | A  | 12  | 137    | 10                  | 02H      | -0.8      | <TS |
| 47 | A  | 12  | 159    | 10                  | 05H      | 0.94      | <TS |
| 48 | A  | 13  | 2      | 20                  | 02H      | 0.89      | <TS |
| 49 | A  | 13  | 2      | 13                  | 02H      | -0.86     | <TS |
| 50 | A  | 13  | 4      | 16                  | 02C      | 0.81      | <TS |
| 51 | A  | 13  | 8      | 7                   | 03C      | 0.79      | <TS |
| 52 | A  | 13  | 8      | 8                   | 02C      | -0.25     | <TS |
| 53 | A  | 13  | 32     | 24                  | 05C      | -0.26     | <TS |
| 54 | A  | 13  | 34     | 17                  | 03C      | -0.98     | <TS |
| 55 | A  | 13  | 36     | 13                  | 05C      | 0.78      | <TS |
| 56 | A  | 13  | 146    | 15                  | DBC      | -1.17     | <TS |
| 57 | A  | 13  | 158    | 10                  | 03H      | 0.88      | <TS |
| 58 | A  | 14  | 3      | 26                  | 02C      | 0.96      | <TS |
| 59 | A  | 14  | 59     | 19                  | 05H      | 0.83      | <TS |
| 60 | A  | 14  | 59     | 10                  | 02H      | 0.92      | <TS |
| 61 | A  | 15  | 2      | 9                   | 03C      | -0.15     | <TS |
| 62 | A  | 15  | 14     | 10                  | 05C      | 0.84      | <TS |
| 63 | A  | 15  | 28     | 11                  | 05H      | 1         | <TS |
| 64 | A  | 15  | 36     | 8                   | 02C      | -0.87     | <TS |
| 65 | A  | 15  | 62     | 11                  | 04C      | -0.13     | <TS |
| 66 | A  | 15  | 154    | 13                  | DBC      | 1.5       | <TS |
| 67 | A  | 15  | 156    | 8                   | 03H      | -0.13     | <TS |
| 68 | A  | 16  | 9      | 9                   | 03C      | 0.84      | <TS |
| 69 | A  | 16  | 11     | 10                  | 02H      | -0.77     | <TS |
| 70 | A  | 17  | 2      | 12                  | 04H      | 0.85      | <TS |
| 71 | A  | 17  | 58     | 14                  | 02C      | 0.83      | <TS |
| 72 | A  | 17  | 60     | 11                  | 02C      | -0.81     | <TS |
| 73 | A  | 18  | 3      | 12                  | 02H      | 0.83      | <TS |
| 74 | A  | 18  | 3      | 11                  | 02H      | -0.86     | <TS |
| 75 | A  | 18  | 23     | 10                  | VS4      | -0.87     | <TS |
| 76 | A  | 18  | 25     | 13                  | VS4      | -0.92     | <TS |
| 77 | A  | 18  | 49     | 11                  | VS4      | -1.01     | <TS |
| 78 | A  | 18  | 51     | 16                  | VS4      | -0.94     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 79  | A  | 18  | 53     | 14                  | DBH      | -0.72     | <TS |
| 80  | A  | 18  | 59     | 9                   | 02H      | 0.9       | <TS |
| 81  | A  | 19  | 56     | 17                  | DBC      | 0.98      | <TS |
| 82  | A  | 19  | 64     | 20                  | DBC      | -1.58     | <TS |
| 83  | A  | 19  | 64     | 17                  | DBH      | -1.58     | <TS |
| 84  | A  | 19  | 64     | 7                   | DBH      | 1.72      | <TS |
| 85  | A  | 19  | 112    | 13                  | 04C      | 0.83      | <TS |
| 86  | A  | 19  | 144    | 11                  | 04C      | 0.9       | <TS |
| 87  | A  | 20  | 3      | 10                  | 02C      | -0.85     | <TS |
| 88  | A  | 20  | 57     | 10                  | 02H      | 0.89      | <TS |
| 89  | A  | 20  | 59     | 7                   | 03C      | -0.98     | <TS |
| 90  | A  | 20  | 103    | 9                   | 04H      | -0.11     | <TS |
| 91  | A  | 20  | 163    | 11                  | 02C      | 0.13      | <TS |
| 92  | A  | 20  | 163    | 10                  | 02C      | 0.88      | <TS |
| 93  | A  | 21  | 2      | 11                  | 04H      | 0.83      | <TS |
| 94  | A  | 21  | 60     | 11                  | 04C      | -0.9      | <TS |
| 95  | A  | 21  | 64     | 13                  | DBH      | -1.68     | <TS |
| 96  | A  | 21  | 114    | 9                   | 02H      | 0.11      | <TS |
| 97  | A  | 22  | 3      | 14                  | 02C      | -0.92     | <TS |
| 98  | A  | 22  | 9      | 11                  | 02C      | -0.9      | <TS |
| 99  | A  | 22  | 53     | 14                  | DBH      | 0.42      | <TS |
| 100 | A  | 22  | 159    | 12                  | 02H      | 0.91      | <TS |
| 101 | A  | 22  | 161    | 9                   | 02H      | 0.9       | <TS |
| 102 | A  | 22  | 163    | 13                  | 02H      | -0.8      | <TS |
| 103 | A  | 23  | 4      | 12                  | 02C      | -0.87     | <TS |
| 104 | A  | 23  | 40     | 12                  | VS4      | 0.91      | <TS |
| 105 | A  | 23  | 40     | 21                  | VS4      | -1.12     | <TS |
| 106 | A  | 23  | 58     | 6                   | 04C      | 0.94      | <TS |
| 107 | A  | 23  | 60     | 7                   | 02H      | -0.87     | <TS |
| 108 | A  | 23  | 62     | 13                  | 02C      | 0.84      | <TS |
| 109 | A  | 23  | 104    | 6                   | 03C      | 0.18      | <TS |
| 110 | A  | 23  | 104    | 9                   | 03C      | -0.9      | <TS |
| 111 | A  | 23  | 122    | 13                  | VS4      | 0.83      | <TS |
| 112 | A  | 24  | 33     | 11                  | 01H      | 0.85      | <TS |
| 113 | A  | 24  | 41     | 12                  | VS4      | -0.94     | <TS |
| 114 | A  | 24  | 61     | 15                  | 03C      | -0.88     | <TS |
| 115 | A  | 24  | 161    | 15                  | 02C      | 0.84      | <TS |
| 116 | A  | 24  | 161    | 12                  | 02C      | -0.81     | <TS |
| 117 | A  | 24  | 163    | 18                  | 02C      | 0.8       | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 118 | A  | 25  | 56     | 11                  | 03C      | -0.94     | <TS |
| 119 | A  | 25  | 60     | 13                  | 03C      | 0.93      | <TS |
| 120 | A  | 25  | 110    | 16                  | 04C      | 0.75      | <TS |
| 121 | A  | 26  | 3      | 17                  | 02C      | -0.85     | <TS |
| 122 | A  | 26  | 5      | 13                  | 02H      | -0.15     | <TS |
| 123 | A  | 26  | 5      | 13                  | 02H      | -0.8      | <TS |
| 124 | A  | 26  | 51     | 10                  | 02H      | 0.93      | <TS |
| 125 | A  | 26  | 121    | 13                  | VS4      | -0.73     | <TS |
| 126 | A  | 26  | 121    | 16                  | VS4      | -0.18     | <TS |
| 127 | A  | 26  | 125    | 13                  | VS4      | -0.05     | <TS |
| 128 | A  | 26  | 161    | 15                  | 03H      | 0.74      | <TS |
| 129 | A  | 26  | 163    | 15                  | 01H      | 0.95      | <TS |
| 130 | A  | 27  | 6      | 10                  | 02H      | -0.84     | <TS |
| 131 | A  | 27  | 8      | 14                  | 02C      | -0.92     | <TS |
| 132 | A  | 27  | 10     | 7                   | 05H      | -0.13     | <TS |
| 133 | A  | 27  | 10     | 8                   | 05H      | 0.92      | <TS |
| 134 | A  | 27  | 58     | 11                  | 02H      | 0.93      | <TS |
| 135 | A  | 28  | 3      | 13                  | 02C      | -0.92     | <TS |
| 136 | A  | 28  | 5      | 14                  | DBC      | 1.51      | <TS |
| 137 | A  | 28  | 19     | 21                  | VS4      | -1.01     | <TS |
| 138 | A  | 28  | 31     | 22                  | VS4      | -0.93     | <TS |
| 139 | A  | 28  | 35     | 13                  | DBH      | 0.86      | <TS |
| 140 | A  | 28  | 43     | 10                  | VS4      | -1.12     | <TS |
| 141 | A  | 28  | 63     | 12                  | 05H      | 0.99      | <TS |
| 142 | A  | 28  | 63     | 18                  | VS4      | -1.08     | <TS |
| 143 | A  | 28  | 105    | 10                  | 03C      | 0.15      | <TS |
| 144 | A  | 28  | 161    | 9                   | 01H      | -0.91     | <TS |
| 145 | A  | 29  | 64     | 13                  | 05H      | 0.95      | <TS |
| 146 | A  | 29  | 122    | 9                   | 02H      | 0.91      | <TS |
| 147 | A  | 29  | 162    | 14                  | 01H      | -0.76     | <TS |
| 148 | A  | 30  | 35     | 9                   | 02H      | 0.9       | <TS |
| 149 | A  | 30  | 55     | 8                   | 03H      | 0.9       | <TS |
| 150 | A  | 30  | 57     | 8                   | 04H      | 0.91      | <TS |
| 151 | A  | 30  | 59     | 11                  | 02C      | -0.85     | <TS |
| 152 | A  | 30  | 59     | 12                  | 04C      | 0.87      | <TS |
| 153 | A  | 31  | 4      | 12                  | 02H      | -0.84     | <TS |
| 154 | A  | 31  | 42     | 8                   | 02C      | 0.86      | <TS |
| 155 | A  | 31  | 44     | 12                  | 02C      | 0.92      | <TS |
| 156 | A  | 31  | 60     | 8                   | 02H      | 0.82      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 157 | A  | 31  | 126    | 18                  | VS4      | -0.77     | <TS |
| 158 | A  | 31  | 126    | 11                  | VS4      | 0.29      | <TS |
| 159 | A  | 31  | 128    | 20                  | VS4      | -0.76     | <TS |
| 160 | A  | 31  | 128    | 20                  | VS4      | 0.94      | <TS |
| 161 | A  | 32  | 7      | 22                  | 02C      | -0.9      | <TS |
| 162 | A  | 32  | 37     | 17                  | 03H      | 0.92      | <TS |
| 163 | A  | 32  | 37     | 10                  | 03H      | 0.06      | <TS |
| 164 | A  | 32  | 59     | 18                  | DBH      | 0.39      | <TS |
| 165 | A  | 32  | 109    | 10                  | VS4      | -0.24     | <TS |
| 166 | A  | 32  | 145    | 20                  | VS4      | -0.98     | <TS |
| 167 | A  | 32  | 161    | 13                  | 03H      | -0.19     | <TS |
| 168 | A  | 33  | 22     | 14                  | DBH      | 1.99      | <TS |
| 169 | A  | 33  | 38     | 14                  | 03H      | -0.83     | <TS |
| 170 | A  | 33  | 46     | 14                  | 02H      | 0.83      | <TS |
| 171 | A  | 33  | 48     | 12                  | 02H      | 0.9       | <TS |
| 172 | A  | 33  | 58     | 8                   | 04H      | 0.91      | <TS |
| 173 | A  | 33  | 62     | 12                  | 04C      | -0.78     | <TS |
| 174 | A  | 33  | 116    | 10                  | 02H      | -0.78     | <TS |
| 175 | A  | 33  | 116    | 9                   | 03H      | 0.87      | <TS |
| 176 | A  | 33  | 124    | 13                  | VS4      | 0.66      | <TS |
| 177 | A  | 33  | 124    | 13                  | 03C      | 0.92      | <TS |
| 178 | A  | 34  | 15     | 14                  | VS4      | -0.69     | <TS |
| 179 | A  | 34  | 39     | 7                   | 02H      | 0.85      | <TS |
| 180 | A  | 34  | 57     | 11                  | 04C      | 0.86      | <TS |
| 181 | A  | 34  | 57     | 10                  | 04H      | 0.97      | <TS |
| 182 | A  | 34  | 59     | 10                  | 04H      | 0.88      | <TS |
| 183 | A  | 34  | 59     | 10                  | 04H      | -0.13     | <TS |
| 184 | A  | 34  | 63     | 15                  | 04C      | 0.88      | <TS |
| 185 | A  | 34  | 63     | 15                  | DBC      | 1.3       | <TS |
| 186 | A  | 34  | 109    | 16                  | 04H      | 0.97      | <TS |
| 187 | A  | 34  | 117    | 11                  | 03C      | -0.9      | <TS |
| 188 | A  | 34  | 119    | 13                  | 03H      | 0.92      | <TS |
| 189 | A  | 34  | 121    | 12                  | 03C      | 0.94      | <TS |
| 190 | A  | 34  | 131    | 10                  | 05C      | -0.15     | <TS |
| 191 | A  | 35  | 48     | 13                  | 03C      | -0.91     | <TS |
| 192 | A  | 35  | 48     | 6                   | 02C      | -0.83     | <TS |
| 193 | A  | 35  | 114    | 15                  | DBC      | 1.95      | <TS |
| 194 | A  | 36  | 47     | 12                  | DBH      | -1.5      | <TS |
| 195 | A  | 36  | 49     | 16                  | 02C      | -0.89     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 196 | A  | 36  | 59     | 10                  | 03H      | 0.86      | <TS |
| 197 | A  | 36  | 61     | 15                  | 04H      | -0.22     | <TS |
| 198 | A  | 36  | 61     | 12                  | DBH      | 1.69      | <TS |
| 199 | A  | 36  | 105    | 12                  | 02C      | 0.85      | <TS |
| 200 | A  | 36  | 109    | 11                  | VS4      | 0.09      | <TS |
| 201 | A  | 36  | 117    | 11                  | 03C      | 0.11      | <TS |
| 202 | A  | 36  | 117    | 16                  | 02H      | 0.83      | <TS |
| 203 | A  | 37  | 6      | 12                  | 02C      | -0.9      | <TS |
| 204 | A  | 37  | 6      | 9                   | 02C      | 0.88      | <TS |
| 205 | A  | 37  | 24     | 14                  | 05C      | 0.93      | <TS |
| 206 | A  | 37  | 30     | 8                   | 05H      | -0.88     | <TS |
| 207 | A  | 37  | 30     | 9                   | 05H      | 0.93      | <TS |
| 208 | A  | 37  | 34     | 20                  | DBC      | 1.6       | <TS |
| 209 | A  | 37  | 34     | 12                  | 04H      | 0.91      | <TS |
| 210 | A  | 37  | 36     | 12                  | 04H      | -0.09     | <TS |
| 211 | A  | 37  | 36     | 10                  | 04H      | -0.81     | <TS |
| 212 | A  | 37  | 38     | 19                  | 03C      | 1         | <TS |
| 213 | A  | 37  | 42     | 12                  | 02H      | 0.84      | <TS |
| 214 | A  | 37  | 48     | 13                  | 04H      | -0.84     | <TS |
| 215 | A  | 37  | 50     | 10                  | 04C      | 0.2       | <TS |
| 216 | A  | 37  | 50     | 10                  | 04H      | -0.9      | <TS |
| 217 | A  | 37  | 50     | 14                  | 04H      | 0.92      | <TS |
| 218 | A  | 37  | 52     | 16                  | 04C      | -0.88     | <TS |
| 219 | A  | 37  | 56     | 12                  | 04C      | -0.99     | <TS |
| 220 | A  | 37  | 56     | 13                  | 05C      | -0.13     | <TS |
| 221 | A  | 37  | 56     | 12                  | 05H      | 0.94      | <TS |
| 222 | A  | 37  | 56     | 22                  | 04H      | 1.03      | <TS |
| 223 | A  | 37  | 60     | 14                  | 03H      | -0.9      | <TS |
| 224 | A  | 37  | 62     | 18                  | 04H      | 0.94      | <TS |
| 225 | A  | 37  | 62     | 16                  | 05H      | -0.81     | <TS |
| 226 | A  | 37  | 106    | 18                  | 03C      | -0.79     | <TS |
| 227 | A  | 37  | 116    | 15                  | 03C      | 0.87      | <TS |
| 228 | A  | 37  | 128    | 15                  | VS4      | -0.86     | <TS |
| 229 | A  | 37  | 128    | 20                  | VS4      | 0.82      | <TS |
| 230 | A  | 37  | 134    | 11                  | 05H      | 0.88      | <TS |
| 231 | A  | 38  | 11     | 11                  | 05H      | 0.87      | <TS |
| 232 | A  | 38  | 13     | 9                   | 05C      | 0.89      | <TS |
| 233 | A  | 38  | 17     | 16                  | 05H      | -0.15     | <TS |
| 234 | A  | 38  | 35     | 18                  | 03H      | 0.88      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 235 | A  | 38  | 35     | 23                  | 04H      | 0.86      | <TS |
| 236 | A  | 38  | 35     | 20                  | 05H      | 0.96      | <TS |
| 237 | A  | 38  | 39     | 12                  | 02C      | 0.82      | <TS |
| 238 | A  | 38  | 45     | 12                  | 03C      | -0.94     | <TS |
| 239 | A  | 38  | 47     | 9                   | 03C      | -0.2      | <TS |
| 240 | A  | 38  | 47     | 12                  | 02H      | 0.87      | <TS |
| 241 | A  | 38  | 49     | 11                  | 04C      | 0.88      | <TS |
| 242 | A  | 38  | 49     | 13                  | DBC      | 1.49      | <TS |
| 243 | A  | 38  | 51     | 30                  | 04C      | 0.83      | <TS |
| 244 | A  | 38  | 53     | 10                  | 04H      | 0.89      | <TS |
| 245 | A  | 38  | 53     | 9                   | 05C      | -0.97     | <TS |
| 246 | A  | 38  | 59     | 13                  | 05H      | -0.17     | <TS |
| 247 | A  | 38  | 59     | 15                  | 04H      | 0.88      | <TS |
| 248 | A  | 38  | 61     | 9                   | 04H      | -0.07     | <TS |
| 249 | A  | 38  | 115    | 11                  | 02C      | 0.87      | <TS |
| 250 | A  | 38  | 115    | 5                   | 02C      | -0.9      | <TS |
| 251 | A  | 38  | 119    | 13                  | 02C      | 0.85      | <TS |
| 252 | A  | 38  | 123    | 10                  | 02C      | -0.86     | <TS |
| 253 | A  | 38  | 127    | 16                  | 03H      | 0.92      | <TS |
| 254 | A  | 39  | 10     | 14                  | DBH      | 1.94      | <TS |
| 255 | A  | 39  | 14     | 13                  | 05H      | -0.19     | <TS |
| 256 | A  | 39  | 26     | 6                   | 04H      | 1         | <TS |
| 257 | A  | 39  | 36     | 9                   | 05H      | -0.79     | <TS |
| 258 | A  | 39  | 40     | 7                   | 02H      | 0.96      | <TS |
| 259 | A  | 39  | 42     | 11                  | 04H      | -0.77     | <TS |
| 260 | A  | 39  | 42     | 12                  | 03C      | -0.99     | <TS |
| 261 | A  | 39  | 46     | 12                  | 04H      | -0.79     | <TS |
| 262 | A  | 39  | 58     | 12                  | 04H      | -0.91     | <TS |
| 263 | A  | 39  | 62     | 9                   | 05H      | 0.18      | <TS |
| 264 | A  | 39  | 62     | 14                  | 05H      | 1         | <TS |
| 265 | A  | 39  | 104    | 12                  | 04H      | 0.83      | <TS |
| 266 | A  | 39  | 104    | 14                  | 03C      | -0.85     | <TS |
| 267 | A  | 39  | 104    | 12                  | 02C      | -0.22     | <TS |
| 268 | A  | 39  | 106    | 8                   | 03C      | -0.24     | <TS |
| 269 | A  | 39  | 112    | 15                  | 02C      | 0.94      | <TS |
| 270 | A  | 39  | 120    | 19                  | 04H      | 0.85      | <TS |
| 271 | A  | 39  | 126    | 18                  | 03C      | 0.9       | <TS |
| 272 | A  | 39  | 130    | 11                  | DBC      | -1.56     | <TS |
| 273 | A  | 40  | 5      | 11                  | 01C      | -0.93     | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|------------------|----------|-----------|-----|
| 274 | A  | 40  | 7      | 11               | 02C      | 0.91      | <TS |
| 275 | A  | 40  | 35     | 12               | 02C      | 0.15      | <TS |
| 276 | A  | 40  | 35     | 12               | 04H      | 0.87      | <TS |
| 277 | A  | 40  | 49     | 12               | 04H      | 0.92      | <TS |
| 278 | A  | 40  | 51     | 10               | 03H      | -0.86     | <TS |
| 279 | A  | 40  | 51     | 9                | 04H      | 0.84      | <TS |
| 280 | A  | 40  | 51     | 8                | 03C      | 0.86      | <TS |
| 281 | A  | 40  | 55     | 10               | VS4      | 0.88      | <TS |
| 282 | A  | 40  | 57     | 7                | 03H      | 0.95      | <TS |
| 283 | A  | 40  | 59     | 15               | 05H      | 1.1       | <TS |
| 284 | A  | 40  | 115    | 12               | 02C      | 0.83      | <TS |
| 285 | A  | 40  | 117    | 10               | 03C      | -0.24     | <TS |
| 286 | A  | 40  | 125    | 15               | 02C      | 0.87      | <TS |
| 287 | A  | 40  | 147    | 23               | VS4      | -0.15     | <TS |
| 288 | A  | 40  | 147    | 28               | VS4      | -0.81     | <TS |
| 289 | A  | 40  | 161    | 10               | 01H      | 0.84      | <TS |
| 290 | A  | 41  | 6      | 13               | 02C      | -0.11     | <TS |
| 291 | A  | 41  | 8      | 12               | 02C      | -0.17     | <TS |
| 292 | A  | 41  | 16     | 12               | 05H      | -0.85     | <TS |
| 293 | A  | 41  | 20     | 11               | 05H      | 1.11      | <TS |
| 294 | A  | 41  | 22     | 9                | 05H      | -0.87     | <TS |
| 295 | A  | 41  | 34     | 12               | 03H      | -0.88     | <TS |
| 296 | A  | 41  | 40     | 9                | 05C      | -0.15     | <TS |
| 297 | A  | 41  | 44     | 14               | 03C      | -0.92     | <TS |
| 298 | A  | 41  | 44     | 15               | 05C      | -0.88     | <TS |
| 299 | A  | 41  | 50     | 13               | 02C      | -0.85     | <TS |
| 300 | A  | 41  | 52     | 28               | VS4      | -0.9      | <TS |
| 301 | A  | 41  | 52     | 11               | 03H      | 0.9       | <TS |
| 302 | A  | 41  | 54     | 14               | 04C      | -0.86     | <TS |
| 303 | A  | 41  | 60     | 26               | 05H      | 0.92      | <TS |
| 304 | A  | 41  | 60     | 9                | 04H      | 0.99      | <TS |
| 305 | A  | 41  | 64     | 12               | 04H      | 0.89      | <TS |
| 306 | A  | 41  | 108    | 15               | 03C      | 0.85      | <TS |
| 307 | A  | 41  | 120    | 8                | 03C      | 0.94      | <TS |
| 308 | A  | 41  | 126    | 14               | 02C      | -0.85     | <TS |
| 309 | A  | 41  | 160    | 12               | 03C      | -0.15     | <TS |
| 310 | A  | 41  | 160    | 9                | 03C      | 0.69      | <TS |
| 311 | A  | 41  | 160    | 18               | 01H      | 0.88      | <TS |
| 312 | A  | 42  | 5      | 12               | 02H      | 0.87      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 313 | A  | 42  | 5      | 12                  | VS4      | -0.89     | <TS |
| 314 | A  | 42  | 5      | 8                   | VS4      | -0.16     | <TS |
| 315 | A  | 42  | 7      | 21                  | 02C      | 0.91      | <TS |
| 316 | A  | 42  | 7      | 9                   | 02C      | 0.11      | <TS |
| 317 | A  | 42  | 33     | 8                   | DBH      | -1.54     | <TS |
| 318 | A  | 42  | 33     | 13                  | DBC      | -1.43     | <TS |
| 319 | A  | 42  | 35     | 11                  | 05C      | 0.99      | <TS |
| 320 | A  | 42  | 41     | 29                  | VS4      | 0.81      | <TS |
| 321 | A  | 42  | 41     | 35                  | VS4      | -1        | <TS |
| 322 | A  | 42  | 43     | 9                   | 03C      | 0.92      | <TS |
| 323 | A  | 42  | 43     | 11                  | VS4      | -0.97     | <TS |
| 324 | A  | 42  | 43     | 19                  | 04H      | 0.85      | <TS |
| 325 | A  | 42  | 45     | 10                  | 04H      | 0.85      | <TS |
| 326 | A  | 42  | 45     | 14                  | 02H      | 0.83      | <TS |
| 327 | A  | 42  | 55     | 8                   | 03H      | -0.91     | <TS |
| 328 | A  | 42  | 57     | 13                  | 03H      | 0.92      | <TS |
| 329 | A  | 42  | 59     | 16                  | 04H      | 0.88      | <TS |
| 330 | A  | 42  | 59     | 11                  | VS4      | 0.88      | <TS |
| 331 | A  | 42  | 63     | 11                  | 02H      | 0.83      | <TS |
| 332 | A  | 42  | 117    | 15                  | 02C      | 0.88      | <TS |
| 333 | A  | 42  | 123    | 19                  | DBH      | -0.11     | <TS |
| 334 | A  | 43  | 36     | 11                  | VS4      | 1.09      | <TS |
| 335 | A  | 43  | 44     | 11                  | 04C      | 0.89      | <TS |
| 336 | A  | 43  | 46     | 17                  | DBH      | 2.12      | <TS |
| 337 | A  | 43  | 46     | 10                  | VS4      | -0.09     | <TS |
| 338 | A  | 43  | 46     | 10                  | 03H      | -0.86     | <TS |
| 339 | A  | 43  | 46     | 28                  | VS4      | -0.79     | <TS |
| 340 | A  | 43  | 46     | 14                  | VS4      | 1.03      | <TS |
| 341 | A  | 43  | 52     | 8                   | 03H      | -0.91     | <TS |
| 342 | A  | 43  | 60     | 12                  | VS4      | 0.57      | <TS |
| 343 | A  | 43  | 106    | 13                  | 03C      | 0.74      | <TS |
| 344 | A  | 43  | 126    | 31                  | VS4      | 0.98      | <TS |
| 345 | A  | 43  | 126    | 11                  | DBC      | 1.58      | <TS |
| 346 | A  | 44  | 15     | 12                  | DBH      | -1.63     | <TS |
| 347 | A  | 44  | 21     | 27                  | VS4      | -0.79     | <TS |
| 348 | A  | 44  | 21     | 23                  | VS4      | -0.14     | <TS |
| 349 | A  | 44  | 21     | 26                  | VS4      | 0.72      | <TS |
| 350 | A  | 44  | 37     | 12                  | 05C      | -0.88     | <TS |
| 351 | A  | 44  | 41     | 20                  | VS4      | -0.36     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 352 | A  | 44  | 47     | 11                  | VS4      | -0.69     | <TS |
| 353 | A  | 44  | 49     | 23                  | 05C      | -0.88     | <TS |
| 354 | A  | 44  | 49     | 30                  | VS4      | -0.7      | <TS |
| 355 | A  | 44  | 49     | 27                  | VS4      | -0.15     | <TS |
| 356 | A  | 44  | 49     | 19                  | 04H      | 0.79      | <TS |
| 357 | A  | 44  | 59     | 9                   | 03H      | 0.84      | <TS |
| 358 | A  | 44  | 109    | 15                  | 03C      | 0.11      | <TS |
| 359 | A  | 44  | 123    | 19                  | VS4      | -0.72     | <TS |
| 360 | A  | 44  | 123    | 21                  | VS4      | -0.11     | <TS |
| 361 | A  | 44  | 123    | 13                  | VS4      | 0.79      | <TS |
| 362 | A  | 44  | 123    | 15                  | 06H      | -0.07     | <TS |
| 363 | A  | 44  | 125    | 12                  | VS4      | -0.57     | <TS |
| 364 | A  | 44  | 127    | 13                  | 03C      | -0.22     | <TS |
| 365 | A  | 44  | 127    | 10                  | 03C      | -1.05     | <TS |
| 366 | A  | 44  | 129    | 12                  | 03C      | 0.81      | <TS |
| 367 | A  | 44  | 131    | 13                  | 05C      | 0.87      | <TS |
| 368 | A  | 44  | 143    | 14                  | 05C      | 0.82      | <TS |
| 369 | A  | 45  | 6      | 13                  | DBH      | 2         | <TS |
| 370 | A  | 45  | 12     | 17                  | DBH      | 2         | <TS |
| 371 | A  | 45  | 30     | 13                  | 04H      | -0.92     | <TS |
| 372 | A  | 45  | 30     | 10                  | 04H      | -0.02     | <TS |
| 373 | A  | 45  | 42     | 13                  | VS4      | 0.59      | <TS |
| 374 | A  | 45  | 52     | 15                  | 03H      | 0.88      | <TS |
| 375 | A  | 45  | 60     | 13                  | 06H      | 0.53      | <TS |
| 376 | A  | 45  | 60     | 14                  | 04H      | 0.92      | <TS |
| 377 | A  | 45  | 62     | 9                   | 05H      | 0.95      | <TS |
| 378 | A  | 45  | 104    | 13                  | 03C      | 0.83      | <TS |
| 379 | A  | 45  | 104    | 9                   | 02C      | 0.79      | <TS |
| 380 | A  | 45  | 108    | 21                  | 03C      | 0.83      | <TS |
| 381 | A  | 45  | 122    | 15                  | 03C      | -0.85     | <TS |
| 382 | A  | 45  | 124    | 10                  | 02C      | -0.83     | <TS |
| 383 | A  | 45  | 124    | 15                  | VS4      | 0.88      | <TS |
| 384 | A  | 45  | 128    | 9                   | 03H      | -0.17     | <TS |
| 385 | A  | 45  | 132    | 12                  | 03C      | -0.88     | <TS |
| 386 | A  | 45  | 134    | 17                  | 03C      | 0.85      | <TS |
| 387 | A  | 46  | 7      | 13                  | VS4      | 0.9       | <TS |
| 388 | A  | 46  | 17     | 12                  | VS4      | -0.22     | <TS |
| 389 | A  | 46  | 37     | 8                   | 03H      | 0.9       | <TS |
| 390 | A  | 46  | 41     | 8                   | 04H      | 0.92      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 391 | A  | 46  | 47     | 15                  | 02H      | 0.9       | <TS |
| 392 | A  | 46  | 51     | 15                  | 03H      | 0.86      | <TS |
| 393 | A  | 46  | 53     | 27                  | VS4      | -0.83     | <TS |
| 394 | A  | 46  | 53     | 21                  | VS4      | 0.85      | <TS |
| 395 | A  | 46  | 55     | 13                  | VS4      | -0.9      | <TS |
| 396 | A  | 46  | 55     | 18                  | VS4      | 0.88      | <TS |
| 397 | A  | 46  | 57     | 12                  | VS4      | 0.92      | <TS |
| 398 | A  | 46  | 65     | 26                  | VS4      | 0.9       | <TS |
| 399 | A  | 46  | 69     | 15                  | VS4      | -0.48     | <TS |
| 400 | A  | 46  | 111    | 11                  | 02C      | 0.9       | <TS |
| 401 | A  | 46  | 111    | 7                   | 02C      | -0.9      | <TS |
| 402 | A  | 46  | 125    | 13                  | VS4      | -0.13     | <TS |
| 403 | A  | 46  | 125    | 10                  | VS4      | 0.17      | <TS |
| 404 | A  | 46  | 125    | 9                   | VS4      | 0.83      | <TS |
| 405 | A  | 46  | 127    | 11                  | 02C      | 0.88      | <TS |
| 406 | A  | 46  | 141    | 15                  | 04C      | 0.87      | <TS |
| 407 | A  | 47  | 8      | 15                  | 01H      | -0.86     | <TS |
| 408 | A  | 47  | 12     | 11                  | DBC      | 1.88      | <TS |
| 409 | A  | 47  | 24     | 11                  | 04H      | -0.85     | <TS |
| 410 | A  | 47  | 24     | 10                  | VS4      | 0.5       | <TS |
| 411 | A  | 47  | 24     | 6                   | DBC      | -1.55     | <TS |
| 412 | A  | 47  | 34     | 13                  | 03C      | 0.99      | <TS |
| 413 | A  | 47  | 50     | 14                  | VS4      | 0.94      | <TS |
| 414 | A  | 47  | 68     | 12                  | 06H      | 0.75      | <TS |
| 415 | A  | 47  | 70     | 17                  | 04H      | 0.91      | <TS |
| 416 | A  | 47  | 112    | 17                  | 02C      | 0.9       | <TS |
| 417 | A  | 47  | 122    | 33                  | VS4      | 0.79      | <TS |
| 418 | A  | 47  | 122    | 27                  | VS4      | 0.17      | <TS |
| 419 | A  | 47  | 124    | 23                  | VS4      | 0         | <TS |
| 420 | A  | 47  | 124    | 26                  | VS4      | 0.79      | <TS |
| 421 | A  | 47  | 124    | 10                  | VS4      | -0.64     | <TS |
| 422 | A  | 47  | 126    | 25                  | VS4      | -0.8      | <TS |
| 423 | A  | 47  | 126    | 26                  | VS4      | -0.02     | <TS |
| 424 | A  | 47  | 126    | 11                  | 04C      | 0.09      | <TS |
| 425 | A  | 48  | 7      | 24                  | 01C      | 0.87      | <TS |
| 426 | A  | 48  | 19     | 12                  | 05H      | -0.82     | <TS |
| 427 | A  | 48  | 19     | 39                  | VS4      | -0.9      | <TS |
| 428 | A  | 48  | 19     | 29                  | VS4      | 0.81      | <TS |
| 429 | A  | 48  | 21     | 27                  | VS4      | -0.94     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 430 | A  | 48  | 29     | 14                  | 04H      | 0.83      | <TS |
| 431 | A  | 48  | 29     | 18                  | 03C      | 0.91      | <TS |
| 432 | A  | 48  | 37     | 16                  | 06H      | 0.84      | <TS |
| 433 | A  | 48  | 41     | 36                  | VS4      | -0.92     | <TS |
| 434 | A  | 48  | 41     | 15                  | VS4      | 0.92      | <TS |
| 435 | A  | 48  | 43     | 35                  | VS4      | -0.85     | <TS |
| 436 | A  | 48  | 43     | 10                  | VS4      | 0.15      | <TS |
| 437 | A  | 48  | 43     | 19                  | VS4      | 0.83      | <TS |
| 438 | A  | 48  | 43     | 9                   | 02H      | 0.86      | <TS |
| 439 | A  | 48  | 45     | 9                   | 06H      | 0.79      | <TS |
| 440 | A  | 48  | 53     | 10                  | VS4      | -0.92     | <TS |
| 441 | A  | 48  | 55     | 11                  | 04H      | 0.88      | <TS |
| 442 | A  | 48  | 69     | 15                  | VS4      | -0.81     | <TS |
| 443 | A  | 48  | 69     | 35                  | VS4      | 0.92      | <TS |
| 444 | A  | 48  | 97     | 30                  | VS4      | 0.88      | <TS |
| 445 | A  | 48  | 111    | 13                  | 02C      | 0.85      | <TS |
| 446 | A  | 48  | 123    | 11                  | 04C      | 0.76      | <TS |
| 447 | A  | 48  | 125    | 17                  | 02C      | 0.77      | <TS |
| 448 | A  | 48  | 125    | 18                  | 02C      | 0.13      | <TS |
| 449 | A  | 48  | 133    | 10                  | 02C      | 0.85      | <TS |
| 450 | A  | 48  | 159    | 8                   | 01H      | 0.9       | <TS |
| 451 | A  | 48  | 159    | 12                  | 01H      | -0.04     | <TS |
| 452 | A  | 48  | 159    | 6                   | 01H      | -0.83     | <TS |
| 453 | A  | 49  | 10     | 19                  | VS4      | 0.9       | <TS |
| 454 | A  | 49  | 16     | 17                  | 02C      | -1.05     | <TS |
| 455 | A  | 49  | 20     | 30                  | VS4      | -0.83     | <TS |
| 456 | A  | 49  | 20     | 24                  | VS4      | 0.94      | <TS |
| 457 | A  | 49  | 24     | 14                  | VS4      | -0.86     | <TS |
| 458 | A  | 49  | 28     | 11                  | 03C      | 0.99      | <TS |
| 459 | A  | 49  | 32     | 7                   | DBC      | 1.46      | <TS |
| 460 | A  | 49  | 36     | 15                  | 03C      | 0.93      | <TS |
| 461 | A  | 49  | 66     | 10                  | VS4      | -0.66     | <TS |
| 462 | A  | 49  | 66     | 15                  | VS4      | 0.04      | <TS |
| 463 | A  | 49  | 66     | 18                  | VS4      | 0.81      | <TS |
| 464 | A  | 49  | 68     | 9                   | 04H      | -0.15     | <TS |
| 465 | A  | 49  | 70     | 18                  | VS4      | 0.92      | <TS |
| 466 | A  | 49  | 70     | 11                  | DBC      | 1.89      | <TS |
| 467 | A  | 49  | 74     | 19                  | VS4      | -0.88     | <TS |
| 468 | A  | 49  | 74     | 14                  | DBC      | 1.78      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 469 | A  | 49  | 92     | 16                  | DBC      | 1.79      | <TS |
| 470 | A  | 49  | 92     | 13                  | 03C      | -0.96     | <TS |
| 471 | A  | 49  | 94     | 7                   | VS4      | 0.9       | <TS |
| 472 | A  | 49  | 94     | 11                  | 03C      | 0.18      | <TS |
| 473 | A  | 49  | 94     | 10                  | 02C      | 0.86      | <TS |
| 474 | A  | 49  | 96     | 14                  | 03C      | 0.83      | <TS |
| 475 | A  | 49  | 96     | 10                  | 02C      | -0.94     | <TS |
| 476 | A  | 49  | 98     | 6                   | 03C      | 0.86      | <TS |
| 477 | A  | 49  | 98     | 7                   | 02C      | 0.83      | <TS |
| 478 | A  | 49  | 112    | 11                  | VS4      | -0.61     | <TS |
| 479 | A  | 49  | 112    | 17                  | VS4      | -0.2      | <TS |
| 480 | A  | 49  | 122    | 8                   | 04C      | 0.81      | <TS |
| 481 | A  | 49  | 122    | 10                  | 04C      | -0.99     | <TS |
| 482 | A  | 49  | 130    | 10                  | 02C      | -0.98     | <TS |
| 483 | A  | 49  | 132    | 15                  | 02C      | 0.88      | <TS |
| 484 | A  | 49  | 134    | 12                  | 03C      | -0.68     | <TS |
| 485 | A  | 49  | 138    | 9                   | 04H      | -1        | <TS |
| 486 | A  | 49  | 138    | 8                   | 04H      | -0.19     | <TS |
| 487 | A  | 49  | 158    | 10                  | 01H      | 0.8       | <TS |
| 488 | A  | 50  | 17     | 13                  | VS4      | -0.93     | <TS |
| 489 | A  | 50  | 19     | 13                  | VS4      | 0.68      | <TS |
| 490 | A  | 50  | 19     | 8                   | DBC      | 1.41      | <TS |
| 491 | A  | 50  | 21     | 18                  | DBH      | 1.66      | <TS |
| 492 | A  | 50  | 21     | 9                   | DBC      | 1.61      | <TS |
| 493 | A  | 50  | 29     | 11                  | 04C      | 0.81      | <TS |
| 494 | A  | 50  | 29     | 7                   | 05H      | 0.99      | <TS |
| 495 | A  | 50  | 39     | 10                  | 04H      | 0.89      | <TS |
| 496 | A  | 50  | 45     | 11                  | 03H      | 0.89      | <TS |
| 497 | A  | 50  | 45     | 12                  | VS5      | -0.86     | <TS |
| 498 | A  | 50  | 49     | 6                   | 05H      | -0.78     | <TS |
| 499 | A  | 50  | 51     | 12                  | 03H      | 0.9       | <TS |
| 500 | A  | 50  | 55     | 10                  | 05H      | 0.95      | <TS |
| 501 | A  | 50  | 57     | 16                  | 04H      | 0.58      | <TS |
| 502 | A  | 50  | 57     | 10                  | 05H      | 0.99      | <TS |
| 503 | A  | 50  | 65     | 13                  | 02H      | -0.89     | <TS |
| 504 | A  | 50  | 71     | 10                  | 03H      | 0.82      | <TS |
| 505 | A  | 50  | 91     | 12                  | VS4      | 0.94      | <TS |
| 506 | A  | 50  | 97     | 13                  | 02C      | 0.86      | <TS |
| 507 | A  | 50  | 105    | 12                  | 04C      | -0.93     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 508 | A  | 50  | 115    | 9                   | 03C      | -0.85     | <TS |
| 509 | A  | 50  | 123    | 16                  | 04C      | 0.09      | <TS |
| 510 | A  | 50  | 127    | 12                  | 03C      | -0.88     | <TS |
| 511 | A  | 50  | 127    | 8                   | 03C      | 0.17      | <TS |
| 512 | A  | 50  | 153    | 17                  | VS5      | 0.83      | <TS |
| 513 | A  | 50  | 157    | 21                  | VS3      | 0.7       | <TS |
| 514 | A  | 50  | 157    | 35                  | VS3      | -0.72     | <TS |
| 515 | A  | 51  | 16     | 19                  | VS4      | -0.84     | <TS |
| 516 | A  | 51  | 18     | 6                   | DBC      | -1.74     | <TS |
| 517 | A  | 51  | 18     | 6                   | DBC      | 1.57      | <TS |
| 518 | A  | 51  | 20     | 28                  | VS3      | -0.8      | <TS |
| 519 | A  | 51  | 20     | 12                  | VS5      | -0.07     | <TS |
| 520 | A  | 51  | 24     | 7                   | 02C      | -0.93     | <TS |
| 521 | A  | 51  | 30     | 10                  | 06H      | -0.95     | <TS |
| 522 | A  | 51  | 38     | 8                   | 04H      | -0.79     | <TS |
| 523 | A  | 51  | 40     | 19                  | DBH      | 1.86      | <TS |
| 524 | A  | 51  | 54     | 10                  | 04H      | 0.92      | <TS |
| 525 | A  | 51  | 60     | 7                   | 04H      | 0.88      | <TS |
| 526 | A  | 51  | 64     | 12                  | 05H      | 0.88      | <TS |
| 527 | A  | 51  | 66     | 12                  | 04H      | -0.89     | <TS |
| 528 | A  | 51  | 66     | 11                  | 05H      | 0.95      | <TS |
| 529 | A  | 51  | 70     | 14                  | 05H      | 0.9       | <TS |
| 530 | A  | 51  | 90     | 15                  | 04C      | -0.18     | <TS |
| 531 | A  | 51  | 92     | 14                  | 02C      | 0.88      | <TS |
| 532 | A  | 51  | 102    | 14                  | 03C      | 0.9       | <TS |
| 533 | A  | 51  | 104    | 10                  | 04C      | -0.88     | <TS |
| 534 | A  | 51  | 108    | 10                  | 03C      | -0.99     | <TS |
| 535 | A  | 51  | 116    | 8                   | 04C      | -0.17     | <TS |
| 536 | A  | 51  | 116    | 7                   | 05H      | 0.92      | <TS |
| 537 | A  | 51  | 118    | 17                  | 02C      | -0.88     | <TS |
| 538 | A  | 51  | 122    | 14                  | 02C      | -0.2      | <TS |
| 539 | A  | 51  | 124    | 14                  | 04C      | -0.87     | <TS |
| 540 | A  | 51  | 126    | 13                  | 03C      | -0.88     | <TS |
| 541 | A  | 51  | 126    | 17                  | 02C      | 0.09      | <TS |
| 542 | A  | 51  | 126    | 12                  | 02C      | 0.81      | <TS |
| 543 | A  | 51  | 126    | 6                   | 03C      | 0.96      | <TS |
| 544 | A  | 51  | 134    | 12                  | VS3      | -0.72     | <TS |
| 545 | A  | 51  | 134    | 7                   | 04C      | 0.11      | <TS |
| 546 | A  | 51  | 134    | 7                   | 04C      | 0.85      | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 547 | A  | 51  | 154    | 11                  | VS5      | -0.79     | <TS |
| 548 | A  | 51  | 154    | 11                  | VS3      | -1.05     | <TS |
| 549 | A  | 52  | 9      | 9                   | 01C      | -0.97     | <TS |
| 550 | A  | 52  | 19     | 8                   | 06H      | -0.22     | <TS |
| 551 | A  | 52  | 23     | 11                  | 02C      | 0.81      | <TS |
| 552 | A  | 52  | 25     | 10                  | 04H      | 0.98      | <TS |
| 553 | A  | 52  | 31     | 16                  | 03C      | 0.93      | <TS |
| 554 | A  | 52  | 33     | 10                  | 06H      | 0.88      | <TS |
| 555 | A  | 52  | 53     | 11                  | 03H      | 0.81      | <TS |
| 556 | A  | 52  | 55     | 12                  | 03H      | -0.85     | <TS |
| 557 | A  | 52  | 89     | 10                  | 06C      | 0.88      | <TS |
| 558 | A  | 52  | 89     | 8                   | 03C      | 0.86      | <TS |
| 559 | A  | 52  | 91     | 9                   | 05H      | -0.81     | <TS |
| 560 | A  | 52  | 97     | 15                  | 02C      | -0.92     | <TS |
| 561 | A  | 52  | 97     | 12                  | VS5      | -0.73     | <TS |
| 562 | A  | 52  | 109    | 9                   | 04C      | -0.98     | <TS |
| 563 | A  | 52  | 111    | 20                  | 02C      | 0.87      | <TS |
| 564 | A  | 52  | 115    | 9                   | 04C      | -0.81     | <TS |
| 565 | A  | 52  | 117    | 21                  | 02C      | 0.9       | <TS |
| 566 | A  | 52  | 125    | 12                  | VS5      | -0.68     | <TS |
| 567 | A  | 52  | 127    | 9                   | VS5      | -0.7      | <TS |
| 568 | A  | 52  | 149    | 14                  | VS4      | -0.87     | <TS |
| 569 | A  | 52  | 149    | 18                  | VS3      | 0.87      | <TS |
| 570 | A  | 53  | 10     | 13                  | 01H      | -0.78     | <TS |
| 571 | A  | 53  | 10     | 10                  | VS4      | -0.84     | <TS |
| 572 | A  | 53  | 10     | 9                   | 01C      | -0.2      | <TS |
| 573 | A  | 53  | 10     | 15                  | 01C      | -0.97     | <TS |
| 574 | A  | 53  | 24     | 7                   | DBH      | -1.67     | <TS |
| 575 | A  | 53  | 52     | 11                  | 04H      | -0.85     | <TS |
| 576 | A  | 53  | 56     | 16                  | 03H      | 0.85      | <TS |
| 577 | A  | 53  | 80     | 7                   | 02H      | -0.91     | <TS |
| 578 | A  | 53  | 80     | 8                   | 03H      | -0.97     | <TS |
| 579 | A  | 53  | 80     | 9                   | 03H      | 0.78      | <TS |
| 580 | A  | 53  | 88     | 10                  | 03C      | -0.9      | <TS |
| 581 | A  | 53  | 90     | 11                  | 03C      | 0.53      | <TS |
| 582 | A  | 53  | 92     | 16                  | 03C      | 0.81      | <TS |
| 583 | A  | 53  | 94     | 9                   | 04C      | 0.83      | <TS |
| 584 | A  | 53  | 94     | 8                   | 03C      | 0.88      | <TS |
| 585 | A  | 53  | 94     | 11                  | 03C      | 0.15      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 586 | A  | 53  | 100    | 10                  | 02C      | -0.92     | <TS |
| 587 | A  | 53  | 104    | 12                  | 03C      | 0.85      | <TS |
| 588 | A  | 53  | 112    | 9                   | 04C      | -0.9      | <TS |
| 589 | A  | 53  | 118    | 15                  | 02C      | 0.85      | <TS |
| 590 | A  | 53  | 122    | 10                  | 04C      | 0.87      | <TS |
| 591 | A  | 53  | 122    | 19                  | 02C      | -0.13     | <TS |
| 592 | A  | 53  | 122    | 5                   | 04C      | -0.92     | <TS |
| 593 | A  | 53  | 136    | 6                   | DBC      | 1.77      | <TS |
| 594 | A  | 53  | 142    | 13                  | 03C      | 0.46      | <TS |
| 595 | A  | 54  | 9      | 11                  | 01C      | -0.15     | <TS |
| 596 | A  | 54  | 21     | 8                   | DBC      | 1.43      | <TS |
| 597 | A  | 54  | 21     | 7                   | 06H      | -0.22     | <TS |
| 598 | A  | 54  | 23     | 9                   | 03H      | 0.83      | <TS |
| 599 | A  | 54  | 29     | 16                  | 02C      | 0.73      | <TS |
| 600 | A  | 54  | 33     | 12                  | 03H      | 0.85      | <TS |
| 601 | A  | 54  | 39     | 9                   | 05H      | 0.88      | <TS |
| 602 | A  | 54  | 39     | 9                   | 03H      | 0.9       | <TS |
| 603 | A  | 54  | 63     | 9                   | 02H      | 0.84      | <TS |
| 604 | A  | 54  | 81     | 20                  | DBH      | 1.48      | <TS |
| 605 | A  | 54  | 83     | 9                   | 02H      | 0.9       | <TS |
| 606 | A  | 54  | 83     | 15                  | 03H      | 0.98      | <TS |
| 607 | A  | 54  | 83     | 11                  | 04H      | -0.06     | <TS |
| 608 | A  | 54  | 83     | 17                  | DBH      | -0.35     | <TS |
| 609 | A  | 54  | 93     | 8                   | 04C      | -0.9      | <TS |
| 610 | A  | 54  | 93     | 8                   | 03C      | 0.88      | <TS |
| 611 | A  | 54  | 93     | 13                  | 02C      | 0.9       | <TS |
| 612 | A  | 54  | 95     | 10                  | 02C      | -0.9      | <TS |
| 613 | A  | 54  | 99     | 11                  | VS4      | 0.86      | <TS |
| 614 | A  | 54  | 105    | 15                  | 02C      | 0.85      | <TS |
| 615 | A  | 54  | 109    | 11                  | 04C      | 0.92      | <TS |
| 616 | A  | 54  | 119    | 14                  | 02C      | 0.89      | <TS |
| 617 | A  | 54  | 139    | 8                   | DBC      | 1.75      | <TS |
| 618 | A  | 54  | 143    | 12                  | 04C      | 0.9       | <TS |
| 619 | A  | 55  | 8      | 15                  | 01C      | -0.22     | <TS |
| 620 | A  | 55  | 38     | 6                   | 05C      | -0.09     | <TS |
| 621 | A  | 55  | 46     | 13                  | 04H      | -0.93     | <TS |
| 622 | A  | 55  | 78     | 9                   | 04H      | 0.91      | <TS |
| 623 | A  | 55  | 80     | 9                   | 02H      | 0.89      | <TS |
| 624 | A  | 55  | 82     | 12                  | 02H      | -0.89     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 625 | A  | 55  | 84     | 9                   | 02C      | 0.11      | <TS |
| 626 | A  | 55  | 86     | 10                  | DBH      | 1.98      | <TS |
| 627 | A  | 55  | 88     | 13                  | 02C      | -0.9      | <TS |
| 628 | A  | 55  | 96     | 10                  | 03C      | -0.92     | <TS |
| 629 | A  | 55  | 96     | 11                  | 02C      | -0.22     | <TS |
| 630 | A  | 55  | 106    | 12                  | 06H      | 0.88      | <TS |
| 631 | A  | 55  | 112    | 9                   | 03C      | -0.13     | <TS |
| 632 | A  | 55  | 112    | 10                  | 04C      | -0.94     | <TS |
| 633 | A  | 55  | 114    | 14                  | 02C      | 0.83      | <TS |
| 634 | A  | 55  | 114    | 10                  | 03C      | 0.77      | <TS |
| 635 | A  | 55  | 114    | 7                   | 03C      | -0.96     | <TS |
| 636 | A  | 55  | 120    | 12                  | 02C      | -0.23     | <TS |
| 637 | A  | 55  | 122    | 14                  | 02C      | -0.15     | <TS |
| 638 | A  | 55  | 140    | 19                  | 06C      | -0.09     | <TS |
| 639 | A  | 56  | 27     | 11                  | 03H      | -0.89     | <TS |
| 640 | A  | 56  | 29     | 9                   | 06H      | -0.81     | <TS |
| 641 | A  | 56  | 33     | 9                   | 03H      | -0.89     | <TS |
| 642 | A  | 56  | 39     | 11                  | 04H      | -0.09     | <TS |
| 643 | A  | 56  | 41     | 11                  | 02H      | -0.13     | <TS |
| 644 | A  | 56  | 59     | 10                  | 03H      | 0.86      | <TS |
| 645 | A  | 56  | 59     | 10                  | 04H      | 0.88      | <TS |
| 646 | A  | 56  | 81     | 17                  | DBH      | 1.79      | <TS |
| 647 | A  | 56  | 83     | 7                   | 04C      | 0.86      | <TS |
| 648 | A  | 56  | 115    | 13                  | 03C      | -0.92     | <TS |
| 649 | A  | 56  | 115    | 18                  | 02C      | 0.83      | <TS |
| 650 | A  | 56  | 137    | 17                  | 03C      | 0.13      | <TS |
| 651 | A  | 56  | 141    | 13                  | 04C      | 0.94      | <TS |
| 652 | A  | 57  | 10     | 12                  | 01C      | -0.18     | <TS |
| 653 | A  | 57  | 18     | 13                  | VS3      | -0.92     | <TS |
| 654 | A  | 57  | 32     | 10                  | 06H      | -0.09     | <TS |
| 655 | A  | 57  | 64     | 12                  | 02H      | 0.95      | <TS |
| 656 | A  | 57  | 90     | 9                   | 03C      | -0.2      | <TS |
| 657 | A  | 57  | 90     | 10                  | 04C      | -0.2      | <TS |
| 658 | A  | 57  | 110    | 13                  | 02C      | 0.86      | <TS |
| 659 | A  | 57  | 110    | 8                   | 02C      | -0.18     | <TS |
| 660 | A  | 57  | 114    | 12                  | 03C      | -0.9      | <TS |
| 661 | A  | 57  | 136    | 9                   | 03C      | -0.81     | <TS |
| 662 | A  | 57  | 138    | 11                  | 02C      | 0.88      | <TS |
| 663 | A  | 57  | 142    | 14                  | 04C      | -0.94     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 664 | A  | 57  | 142    | 13                  | 04C      | -0.13     | <TS |
| 665 | A  | 57  | 142    | 16                  | 03C      | 0.87      | <TS |
| 666 | A  | 58  | 33     | 15                  | DBH      | 1.62      | <TS |
| 667 | A  | 58  | 33     | 11                  | 04H      | -0.87     | <TS |
| 668 | A  | 58  | 57     | 7                   | 04H      | 0.9       | <TS |
| 669 | A  | 58  | 57     | 7                   | 03H      | 1.03      | <TS |
| 670 | A  | 58  | 81     | 10                  | 03H      | 0         | <TS |
| 671 | A  | 58  | 81     | 10                  | 02H      | -0.15     | <TS |
| 672 | A  | 58  | 85     | 12                  | 03H      | 0.91      | <TS |
| 673 | A  | 58  | 85     | 8                   | 02H      | -0.89     | <TS |
| 674 | A  | 58  | 87     | 15                  | 02C      | -0.77     | <TS |
| 675 | A  | 58  | 105    | 8                   | 05H      | 0         | <TS |
| 676 | A  | 58  | 113    | 10                  | 04C      | 0.9       | <TS |
| 677 | A  | 58  | 115    | 10                  | 04C      | 0.88      | <TS |
| 678 | A  | 58  | 121    | 10                  | 03C      | 0.78      | <TS |
| 679 | A  | 58  | 121    | 13                  | 02C      | 0.83      | <TS |
| 680 | A  | 58  | 123    | 10                  | 03C      | 0         | <TS |
| 681 | A  | 58  | 127    | 22                  | 04C      | 0.83      | <TS |
| 682 | A  | 58  | 127    | 8                   | 04C      | 0         | <TS |
| 683 | A  | 58  | 143    | 11                  | 03C      | 0.82      | <TS |
| 684 | A  | 59  | 30     | 15                  | 03C      | 0.78      | <TS |
| 685 | A  | 59  | 30     | 6                   | 03H      | 0.94      | <TS |
| 686 | A  | 59  | 30     | 10                  | 03H      | -0.89     | <TS |
| 687 | A  | 59  | 38     | 11                  | 03H      | 0.81      | <TS |
| 688 | A  | 59  | 50     | 13                  | 06H      | 0.87      | <TS |
| 689 | A  | 59  | 56     | 14                  | DBH      | -0.92     | <TS |
| 690 | A  | 59  | 56     | 10                  | VS4      | 0.83      | <TS |
| 691 | A  | 59  | 60     | 7                   | 04H      | 0.85      | <TS |
| 692 | A  | 59  | 66     | 14                  | 06C      | 0.86      | <TS |
| 693 | A  | 59  | 70     | 7                   | 03H      | -0.82     | <TS |
| 694 | A  | 59  | 70     | 9                   | 03H      | 0.95      | <TS |
| 695 | A  | 59  | 82     | 15                  | 03H      | 0.79      | <TS |
| 696 | A  | 59  | 90     | 13                  | 02C      | -0.92     | <TS |
| 697 | A  | 59  | 106    | 14                  | 02C      | 0.81      | <TS |
| 698 | A  | 59  | 114    | 11                  | 03C      | -1.03     | <TS |
| 699 | A  | 59  | 114    | 15                  | 03C      | 0.77      | <TS |
| 700 | A  | 59  | 118    | 10                  | 02C      | -0.24     | <TS |
| 701 | A  | 59  | 118    | 11                  | 02C      | 0.83      | <TS |
| 702 | A  | 59  | 120    | 11                  | 02C      | -0.88     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 703 | A  | 59  | 126    | 11                  | 06H      | 0.85      | <TS |
| 704 | A  | 59  | 144    | 13                  | 04C      | 0.89      | <TS |
| 705 | A  | 60  | 11     | 11                  | 01C      | 0.13      | <TS |
| 706 | A  | 60  | 25     | 14                  | 04H      | 0.86      | <TS |
| 707 | A  | 60  | 27     | 10                  | 03C      | 0.85      | <TS |
| 708 | A  | 60  | 29     | 18                  | 04H      | 0.94      | <TS |
| 709 | A  | 60  | 31     | 10                  | 03H      | 0.87      | <TS |
| 710 | A  | 60  | 33     | 16                  | DBC      | 1.49      | <TS |
| 711 | A  | 60  | 39     | 12                  | 04H      | 0.92      | <TS |
| 712 | A  | 60  | 39     | 9                   | 05H      | -0.06     | <TS |
| 713 | A  | 60  | 39     | 14                  | 06H      | 0.94      | <TS |
| 714 | A  | 60  | 83     | 10                  | DBH      | -1.89     | <TS |
| 715 | A  | 60  | 85     | 11                  | 02C      | 0.9       | <TS |
| 716 | A  | 60  | 103    | 11                  | 05H      | 0.93      | <TS |
| 717 | A  | 60  | 119    | 21                  | 02C      | 0.88      | <TS |
| 718 | A  | 60  | 121    | 20                  | 02C      | 0.9       | <TS |
| 719 | A  | 61  | 20     | 11                  | DBC      | 1.43      | <TS |
| 720 | A  | 61  | 34     | 13                  | 03H      | 0.87      | <TS |
| 721 | A  | 61  | 34     | 8                   | 04H      | 0.91      | <TS |
| 722 | A  | 61  | 36     | 9                   | 03H      | -0.78     | <TS |
| 723 | A  | 61  | 40     | 10                  | 04H      | 0.85      | <TS |
| 724 | A  | 61  | 44     | 12                  | 04H      | -0.13     | <TS |
| 725 | A  | 61  | 48     | 13                  | 06H      | 0.86      | <TS |
| 726 | A  | 61  | 54     | 10                  | 03H      | -0.85     | <TS |
| 727 | A  | 61  | 56     | 10                  | 03H      | -0.98     | <TS |
| 728 | A  | 61  | 86     | 12                  | 03C      | -0.13     | <TS |
| 729 | A  | 61  | 104    | 7                   | 02C      | -0.9      | <TS |
| 730 | A  | 61  | 108    | 10                  | 03H      | -0.88     | <TS |
| 731 | A  | 61  | 112    | 15                  | 04C      | -0.97     | <TS |
| 732 | A  | 61  | 120    | 11                  | VS4      | -0.92     | <TS |
| 733 | A  | 61  | 120    | 11                  | 04C      | -0.91     | <TS |
| 734 | A  | 61  | 120    | 10                  | 03C      | 0.95      | <TS |
| 735 | A  | 61  | 138    | 14                  | DBC      | 1.45      | <TS |
| 736 | A  | 61  | 138    | 13                  | 04C      | 0.94      | <TS |
| 737 | A  | 61  | 144    | 10                  | DBH      | 1.8       | <TS |
| 738 | A  | 61  | 150    | 13                  | DBC      | 1.16      | <TS |
| 739 | A  | 62  | 11     | 14                  | 01C      | -0.95     | <TS |
| 740 | A  | 62  | 15     | 10                  | 06C      | 0.79      | <TS |
| 741 | A  | 62  | 19     | 12                  | 06H      | 1.04      | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 742 | A  | 62  | 33     | 19                  | 03H      | 0.92      | <TS |
| 743 | A  | 62  | 35     | 13                  | 03H      | 0.9       | <TS |
| 744 | A  | 62  | 49     | 15                  | 05H      | 0.91      | <TS |
| 745 | A  | 62  | 59     | 9                   | 04H      | 0.85      | <TS |
| 746 | A  | 62  | 73     | 11                  | 04H      | -0.09     | <TS |
| 747 | A  | 62  | 89     | 10                  | 03C      | -1.04     | <TS |
| 748 | A  | 62  | 95     | 9                   | 04C      | -0.94     | <TS |
| 749 | A  | 62  | 109    | 11                  | 04H      | -0.79     | <TS |
| 750 | A  | 62  | 111    | 10                  | 03H      | 0.19      | <TS |
| 751 | A  | 62  | 121    | 13                  | 02C      | 0.88      | <TS |
| 752 | A  | 63  | 12     | 13                  | 01C      | -0.93     | <TS |
| 753 | A  | 63  | 40     | 7                   | DBC      | -1.5      | <TS |
| 754 | A  | 63  | 44     | 12                  | 06C      | -0.88     | <TS |
| 755 | A  | 63  | 52     | 16                  | 06C      | 0.88      | <TS |
| 756 | A  | 63  | 58     | 11                  | 03H      | 0.91      | <TS |
| 757 | A  | 63  | 60     | 11                  | 03H      | 0.97      | <TS |
| 758 | A  | 63  | 62     | 12                  | 04C      | 0.81      | <TS |
| 759 | A  | 63  | 66     | 12                  | 04H      | -0.95     | <TS |
| 760 | A  | 63  | 80     | 11                  | 03H      | 0.93      | <TS |
| 761 | A  | 63  | 82     | 10                  | 06H      | 0.83      | <TS |
| 762 | A  | 63  | 82     | 22                  | 03H      | 0.89      | <TS |
| 763 | A  | 63  | 82     | 8                   | 02H      | -0.92     | <TS |
| 764 | A  | 63  | 84     | 10                  | DBH      | -1.82     | <TS |
| 765 | A  | 63  | 86     | 14                  | 03C      | -0.92     | <TS |
| 766 | A  | 63  | 86     | 10                  | 05C      | 0.86      | <TS |
| 767 | A  | 63  | 86     | 15                  | 02C      | -0.88     | <TS |
| 768 | A  | 63  | 102    | 14                  | 04H      | 0.86      | <TS |
| 769 | A  | 63  | 104    | 16                  | 03C      | 0.85      | <TS |
| 770 | A  | 63  | 104    | 12                  | 04C      | -0.22     | <TS |
| 771 | A  | 63  | 104    | 11                  | 05C      | -0.9      | <TS |
| 772 | A  | 63  | 106    | 15                  | 03H      | 0.94      | <TS |
| 773 | A  | 63  | 118    | 18                  | 03C      | 0.9       | <TS |
| 774 | A  | 63  | 122    | 20                  | 03C      | 0.85      | <TS |
| 775 | A  | 63  | 124    | 15                  | 04C      | 0.87      | <TS |
| 776 | A  | 63  | 124    | 8                   | 04C      | -0.15     | <TS |
| 777 | A  | 63  | 126    | 16                  | 04C      | 0.85      | <TS |
| 778 | A  | 63  | 134    | 10                  | 05C      | 0.92      | <TS |
| 779 | A  | 63  | 134    | 13                  | 03C      | 0.9       | <TS |
| 780 | A  | 63  | 136    | 14                  | 03C      | -0.89     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 781 | A  | 63  | 136    | 15                  | 06H      | -0.61     | <TS |
| 782 | A  | 63  | 140    | 17                  | DBC      | 1.91      | <TS |
| 783 | A  | 63  | 142    | 15                  | 04C      | 0.88      | <TS |
| 784 | A  | 64  | 11     | 30                  | VS4      | -0.95     | <TS |
| 785 | A  | 64  | 11     | 8                   | VS4      | 0.62      | <TS |
| 786 | A  | 64  | 11     | 12                  | 06H      | 0.84      | <TS |
| 787 | A  | 64  | 11     | 18                  | VS5      | 0.71      | <TS |
| 788 | A  | 64  | 13     | 15                  | 04H      | 0.96      | <TS |
| 789 | A  | 64  | 13     | 20                  | VS4      | -0.93     | <TS |
| 790 | A  | 64  | 19     | 7                   | 06H      | 0         | <TS |
| 791 | A  | 64  | 25     | 12                  | 06C      | 0.84      | <TS |
| 792 | A  | 64  | 29     | 10                  | DBC      | 1.74      | <TS |
| 793 | A  | 64  | 37     | 12                  | VS3      | 0.24      | <TS |
| 794 | A  | 64  | 37     | 10                  | VS4      | -0.88     | <TS |
| 795 | A  | 64  | 37     | 17                  | VS5      | 0.8       | <TS |
| 796 | A  | 64  | 57     | 10                  | 05H      | 0.89      | <TS |
| 797 | A  | 64  | 57     | 14                  | 06C      | 0.85      | <TS |
| 798 | A  | 64  | 59     | 11                  | 05C      | 0.92      | <TS |
| 799 | A  | 64  | 59     | 6                   | 04C      | 0.86      | <TS |
| 800 | A  | 64  | 67     | 9                   | 06C      | -0.18     | <TS |
| 801 | A  | 64  | 71     | 14                  | VS5      | 0.86      | <TS |
| 802 | A  | 64  | 71     | 14                  | VS5      | -0.9      | <TS |
| 803 | A  | 64  | 83     | 13                  | 03H      | 0.97      | <TS |
| 804 | A  | 64  | 111    | 11                  | 02H      | 0.92      | <TS |
| 805 | A  | 64  | 123    | 16                  | 04C      | 0.87      | <TS |
| 806 | A  | 64  | 139    | 12                  | 03C      | 0.96      | <TS |
| 807 | A  | 64  | 153    | 11                  | 01C      | -0.93     | <TS |
| 808 | A  | 65  | 12     | 20                  | 06H      | 0.84      | <TS |
| 809 | A  | 65  | 14     | 10                  | 06H      | 0.81      | <TS |
| 810 | A  | 65  | 16     | 12                  | 05H      | 0.85      | <TS |
| 811 | A  | 65  | 24     | 14                  | VS5      | 0.64      | <TS |
| 812 | A  | 65  | 24     | 7                   | VS5      | -0.82     | <TS |
| 813 | A  | 65  | 32     | 8                   | DBC      | -1.55     | <TS |
| 814 | A  | 65  | 32     | 9                   | DBC      | 1.66      | <TS |
| 815 | A  | 65  | 32     | 10                  | 04H      | 0.87      | <TS |
| 816 | A  | 65  | 40     | 12                  | 03H      | 0.91      | <TS |
| 817 | A  | 65  | 56     | 14                  | 06C      | 0.86      | <TS |
| 818 | A  | 65  | 56     | 10                  | 03C      | -0.92     | <TS |
| 819 | A  | 65  | 60     | 10                  | 02H      | -0.91     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 820 | A  | 65  | 60     | 7                   | 04H      | -0.86     | <TS |
| 821 | A  | 65  | 60     | 10                  | 03C      | 0.88      | <TS |
| 822 | A  | 65  | 62     | 12                  | 05C      | -0.92     | <TS |
| 823 | A  | 65  | 66     | 13                  | 06H      | 0.9       | <TS |
| 824 | A  | 65  | 76     | 11                  | 02H      | -0.19     | <TS |
| 825 | A  | 65  | 88     | 10                  | 02C      | -0.9      | <TS |
| 826 | A  | 65  | 90     | 13                  | 02C      | 0.88      | <TS |
| 827 | A  | 65  | 92     | 11                  | 03C      | 0.81      | <TS |
| 828 | A  | 65  | 92     | 8                   | 02C      | 1.01      | <TS |
| 829 | A  | 65  | 104    | 10                  | 03H      | 0.48      | <TS |
| 830 | A  | 65  | 104    | 6                   | 04H      | 0.84      | <TS |
| 831 | A  | 65  | 106    | 12                  | 06C      | 0.88      | <TS |
| 832 | A  | 65  | 106    | 18                  | 04C      | 0.83      | <TS |
| 833 | A  | 65  | 106    | 13                  | 03C      | 0.85      | <TS |
| 834 | A  | 65  | 106    | 17                  | 02C      | 0.87      | <TS |
| 835 | A  | 65  | 106    | 8                   | 01C      | 0.13      | <TS |
| 836 | A  | 65  | 108    | 17                  | 03H      | -0.9      | <TS |
| 837 | A  | 65  | 110    | 13                  | 03H      | -0.86     | <TS |
| 838 | A  | 65  | 116    | 14                  | VS3      | 0.85      | <TS |
| 839 | A  | 65  | 120    | 11                  | 03C      | 0.88      | <TS |
| 840 | A  | 65  | 120    | 10                  | 03C      | -0.98     | <TS |
| 841 | A  | 65  | 124    | 7                   | 03C      | 1         | <TS |
| 842 | A  | 65  | 126    | 17                  | 06C      | -0.9      | <TS |
| 843 | A  | 65  | 138    | 26                  | 04C      | -0.13     | <TS |
| 844 | A  | 65  | 152    | 20                  | VS3      | 0.98      | <TS |
| 845 | A  | 66  | 13     | 10                  | VS4      | -0.86     | <TS |
| 846 | A  | 66  | 13     | 10                  | 01C      | -0.88     | <TS |
| 847 | A  | 66  | 25     | 12                  | 04H      | 0.87      | <TS |
| 848 | A  | 66  | 27     | 15                  | 06C      | 0.82      | <TS |
| 849 | A  | 66  | 31     | 10                  | 05H      | -0.91     | <TS |
| 850 | A  | 66  | 31     | 18                  | 04H      | 0.93      | <TS |
| 851 | A  | 66  | 35     | 13                  | 04H      | 0.86      | <TS |
| 852 | A  | 66  | 35     | 12                  | 03H      | 0.9       | <TS |
| 853 | A  | 66  | 37     | 9                   | 06H      | -0.09     | <TS |
| 854 | A  | 66  | 39     | 7                   | 05H      | 0.92      | <TS |
| 855 | A  | 66  | 45     | 10                  | 05H      | 0.99      | <TS |
| 856 | A  | 66  | 49     | 9                   | 05H      | 1         | <TS |
| 857 | A  | 66  | 55     | 12                  | 02H      | 0.88      | <TS |
| 858 | A  | 66  | 59     | 14                  | 06C      | 0.77      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 859 | A  | 66  | 61     | 12                  | 04H      | 0.87      | <TS |
| 860 | A  | 66  | 63     | 7                   | 02H      | -0.84     | <TS |
| 861 | A  | 66  | 63     | 10                  | 06C      | 0.84      | <TS |
| 862 | A  | 66  | 75     | 11                  | 05H      | 0.89      | <TS |
| 863 | A  | 66  | 77     | 10                  | 06C      | 0.81      | <TS |
| 864 | A  | 66  | 77     | 5                   | DBC      | -1.94     | <TS |
| 865 | A  | 66  | 79     | 8                   | 03H      | -0.83     | <TS |
| 866 | A  | 66  | 79     | 10                  | 01H      | -0.17     | <TS |
| 867 | A  | 66  | 83     | 12                  | 06C      | 0.86      | <TS |
| 868 | A  | 66  | 89     | 13                  | 04C      | -0.92     | <TS |
| 869 | A  | 66  | 89     | 9                   | 03C      | 0.02      | <TS |
| 870 | A  | 66  | 107    | 15                  | 03H      | 0.11      | <TS |
| 871 | A  | 66  | 107    | 14                  | 02C      | -0.96     | <TS |
| 872 | A  | 66  | 109    | 15                  | 03H      | -0.79     | <TS |
| 873 | A  | 66  | 109    | 15                  | 04C      | 0.92      | <TS |
| 874 | A  | 66  | 109    | 14                  | 04C      | 0.11      | <TS |
| 875 | A  | 66  | 109    | 20                  | 02C      | 0.87      | <TS |
| 876 | A  | 66  | 111    | 10                  | 02H      | -0.9      | <TS |
| 877 | A  | 66  | 111    | 13                  | 02H      | 0.91      | <TS |
| 878 | A  | 66  | 113    | 17                  | 03H      | 0.92      | <TS |
| 879 | A  | 66  | 113    | 15                  | 02C      | 0.85      | <TS |
| 880 | A  | 66  | 123    | 10                  | 06C      | -0.88     | <TS |
| 881 | A  | 66  | 123    | 9                   | 03C      | 0.92      | <TS |
| 882 | A  | 66  | 129    | 8                   | DBH      | -1.63     | <TS |
| 883 | A  | 66  | 137    | 12                  | 06C      | -0.85     | <TS |
| 884 | A  | 66  | 147    | 11                  | 03C      | -0.2      | <TS |
| 885 | A  | 66  | 153    | 14                  | 02C      | 0.88      | <TS |
| 886 | A  | 66  | 153    | 10                  | 02C      | -0.87     | <TS |
| 887 | A  | 67  | 12     | 11                  | 03H      | 0.89      | <TS |
| 888 | A  | 67  | 14     | 25                  | 05H      | 0.74      | <TS |
| 889 | A  | 67  | 20     | 16                  | VS5      | 0.71      | <TS |
| 890 | A  | 67  | 24     | 22                  | 06H      | 0.82      | <TS |
| 891 | A  | 67  | 24     | 10                  | 06C      | 0.84      | <TS |
| 892 | A  | 67  | 24     | 8                   | 06H      | 0.18      | <TS |
| 893 | A  | 67  | 30     | 14                  | 06C      | -0.97     | <TS |
| 894 | A  | 67  | 32     | 10                  | 06H      | 0.88      | <TS |
| 895 | A  | 67  | 34     | 10                  | 06C      | 0.75      | <TS |
| 896 | A  | 67  | 38     | 11                  | 06H      | 0.92      | <TS |
| 897 | A  | 67  | 38     | 6                   | 06H      | -0.15     | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 898 | A  | 67  | 50     | 13                  | 03C      | 0.9       | <TS |
| 899 | A  | 67  | 50     | 9                   | 03C      | 0.11      | <TS |
| 900 | A  | 67  | 56     | 11                  | VS3      | 0.97      | <TS |
| 901 | A  | 67  | 58     | 12                  | 04C      | 0.92      | <TS |
| 902 | A  | 67  | 58     | 15                  | 03C      | 0.09      | <TS |
| 903 | A  | 67  | 58     | 15                  | 02C      | 0.94      | <TS |
| 904 | A  | 67  | 106    | 13                  | 03H      | 0.88      | <TS |
| 905 | A  | 67  | 106    | 10                  | 02H      | 0.93      | <TS |
| 906 | A  | 67  | 106    | 10                  | 05C      | 0.79      | <TS |
| 907 | A  | 67  | 106    | 8                   | 03C      | 0.86      | <TS |
| 908 | A  | 67  | 110    | 10                  | 04H      | -0.84     | <TS |
| 909 | A  | 67  | 110    | 8                   | 03C      | 0.88      | <TS |
| 910 | A  | 67  | 112    | 12                  | VS3      | 0.85      | <TS |
| 911 | A  | 67  | 112    | 12                  | 04C      | -0.85     | <TS |
| 912 | A  | 67  | 114    | 12                  | 03C      | -0.92     | <TS |
| 913 | A  | 67  | 114    | 24                  | 02C      | 0.92      | <TS |
| 914 | A  | 67  | 118    | 17                  | 03C      | 0.92      | <TS |
| 915 | A  | 67  | 120    | 11                  | 06H      | -0.09     | <TS |
| 916 | A  | 67  | 120    | 11                  | 06H      | 0.87      | <TS |
| 917 | A  | 67  | 120    | 15                  | VS5      | 0.85      | <TS |
| 918 | A  | 67  | 130    | 14                  | DBH      | 2.1       | <TS |
| 919 | A  | 67  | 136    | 20                  | VS3      | 0.95      | <TS |
| 920 | A  | 67  | 136    | 13                  | 04C      | 0.92      | <TS |
| 921 | A  | 67  | 138    | 14                  | 03C      | 0.85      | <TS |
| 922 | A  | 67  | 154    | 15                  | 04C      | 0.86      | <TS |
| 923 | A  | 67  | 154    | 17                  | 02C      | 0.84      | <TS |
| 924 | A  | 67  | 154    | 18                  | 01C      | -0.61     | <TS |
| 925 | A  | 68  | 15     | 8                   | 05H      | -0.2      | <TS |
| 926 | A  | 68  | 17     | 16                  | VS3      | -0.75     | <TS |
| 927 | A  | 68  | 17     | 7                   | VS4      | -0.97     | <TS |
| 928 | A  | 68  | 17     | 13                  | VS4      | 0.8       | <TS |
| 929 | A  | 68  | 21     | 12                  | VS3      | -0.83     | <TS |
| 930 | A  | 68  | 21     | 22                  | VS4      | -0.9      | <TS |
| 931 | A  | 68  | 21     | 22                  | VS4      | 0.88      | <TS |
| 932 | A  | 68  | 21     | 18                  | VS5      | 0.76      | <TS |
| 933 | A  | 68  | 27     | 7                   | VS3      | -0.93     | <TS |
| 934 | A  | 68  | 39     | 6                   | VS3      | 0.92      | <TS |
| 935 | A  | 68  | 41     | 14                  | 04H      | 0.91      | <TS |
| 936 | A  | 68  | 45     | 15                  | 06H      | 0.94      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 937 | A  | 68  | 53     | 12                  | 04H      | -0.22     | <TS |
| 938 | A  | 68  | 61     | 10                  | 03C      | -0.88     | <TS |
| 939 | A  | 68  | 61     | 12                  | 06H      | 0.83      | <TS |
| 940 | A  | 68  | 81     | 19                  | 03H      | 0.88      | <TS |
| 941 | A  | 68  | 87     | 10                  | 03C      | -0.86     | <TS |
| 942 | A  | 68  | 103    | 10                  | 02H      | -0.9      | <TS |
| 943 | A  | 68  | 105    | 9                   | 04H      | 0.07      | <TS |
| 944 | A  | 68  | 107    | 9                   | 03H      | -0.11     | <TS |
| 945 | A  | 68  | 111    | 12                  | 03H      | -0.86     | <TS |
| 946 | A  | 68  | 111    | 11                  | 04H      | -0.85     | <TS |
| 947 | A  | 68  | 139    | 32                  | VS3      | -0.85     | <TS |
| 948 | A  | 68  | 139    | 16                  | VS5      | -0.85     | <TS |
| 949 | A  | 68  | 139    | 38                  | VS5      | 0.72      | <TS |
| 950 | A  | 68  | 141    | 22                  | DBH      | 1.77      | <TS |
| 951 | A  | 69  | 22     | 17                  | VS3      | 0.8       | <TS |
| 952 | A  | 69  | 22     | 26                  | VS4      | -0.93     | <TS |
| 953 | A  | 69  | 22     | 27                  | VS4      | 0.8       | <TS |
| 954 | A  | 69  | 22     | 9                   | VS4      | -0.24     | <TS |
| 955 | A  | 69  | 22     | 27                  | VS5      | 0.76      | <TS |
| 956 | A  | 69  | 30     | 13                  | DBC      | 1.48      | <TS |
| 957 | A  | 69  | 34     | 14                  | DBH      | 1.92      | <TS |
| 958 | A  | 69  | 34     | 12                  | 06C      | 0.84      | <TS |
| 959 | A  | 69  | 40     | 12                  | 04H      | 0.89      | <TS |
| 960 | A  | 69  | 40     | 8                   | DBH      | 1.96      | <TS |
| 961 | A  | 69  | 50     | 11                  | DBH      | 1.54      | <TS |
| 962 | A  | 69  | 54     | 15                  | 03C      | -0.87     | <TS |
| 963 | A  | 69  | 56     | 8                   | 06H      | 0.88      | <TS |
| 964 | A  | 69  | 56     | 10                  | 03C      | 0.86      | <TS |
| 965 | A  | 69  | 58     | 8                   | 02C      | 0.86      | <TS |
| 966 | A  | 69  | 60     | 6                   | 06H      | -0.95     | <TS |
| 967 | A  | 69  | 60     | 12                  | 06H      | 0.88      | <TS |
| 968 | A  | 69  | 68     | 12                  | 05C      | -0.88     | <TS |
| 969 | A  | 69  | 76     | 11                  | 04H      | -0.89     | <TS |
| 970 | A  | 69  | 76     | 6                   | 04H      | 0.33      | <TS |
| 971 | A  | 69  | 80     | 6                   | 03H      | -0.84     | <TS |
| 972 | A  | 69  | 86     | 15                  | 06C      | 0.86      | <TS |
| 973 | A  | 69  | 90     | 10                  | 03C      | -0.84     | <TS |
| 974 | A  | 69  | 102    | 7                   | 04H      | 0.93      | <TS |
| 975 | A  | 69  | 106    | 14                  | VS5      | 0.83      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 976  | A  | 69  | 106    | 14                  | 05C      | 0.9       | <TS |
| 977  | A  | 69  | 108    | 15                  | 04H      | 0.86      | <TS |
| 978  | A  | 69  | 110    | 12                  | 03C      | 0.94      | <TS |
| 979  | A  | 69  | 112    | 14                  | 06C      | 0.88      | <TS |
| 980  | A  | 69  | 112    | 14                  | 02C      | 0.94      | <TS |
| 981  | A  | 69  | 116    | 10                  | 03H      | 0.11      | <TS |
| 982  | A  | 69  | 122    | 12                  | 04C      | 0.85      | <TS |
| 983  | A  | 69  | 126    | 10                  | DBC      | 1.75      | <TS |
| 984  | A  | 69  | 132    | 15                  | 03C      | 0.87      | <TS |
| 985  | A  | 69  | 134    | 19                  | 06C      | -0.85     | <TS |
| 986  | A  | 69  | 136    | 12                  | VS3      | -0.96     | <TS |
| 987  | A  | 69  | 136    | 13                  | VS5      | 0.76      | <TS |
| 988  | A  | 69  | 152    | 24                  | VS3      | 0.94      | <TS |
| 989  | A  | 69  | 152    | 23                  | VS3      | -0.86     | <TS |
| 990  | A  | 70  | 15     | 12                  | VS4      | -0.9      | <TS |
| 991  | A  | 70  | 19     | 10                  | 05H      | 1.11      | <TS |
| 992  | A  | 70  | 29     | 6                   | DBC      | 1.94      | <TS |
| 993  | A  | 70  | 53     | 11                  | 04H      | 0.81      | <TS |
| 994  | A  | 70  | 53     | 9                   | 05H      | -0.17     | <TS |
| 995  | A  | 70  | 53     | 19                  | 03C      | 0.11      | <TS |
| 996  | A  | 70  | 53     | 13                  | 02C      | -0.84     | <TS |
| 997  | A  | 70  | 55     | 21                  | 03C      | -0.98     | <TS |
| 998  | A  | 70  | 57     | 6                   | DBH      | -1.82     | <TS |
| 999  | A  | 70  | 59     | 11                  | DBC      | 1.75      | <TS |
| 1000 | A  | 70  | 61     | 11                  | 04C      | 0.86      | <TS |
| 1001 | A  | 70  | 65     | 8                   | 04C      | 1.01      | <TS |
| 1002 | A  | 70  | 69     | 10                  | 05H      | -0.17     | <TS |
| 1003 | A  | 70  | 81     | 10                  | 03H      | 0.92      | <TS |
| 1004 | A  | 70  | 81     | 12                  | VS5      | -0.72     | <TS |
| 1005 | A  | 70  | 81     | 17                  | DBC      | 1.77      | <TS |
| 1006 | A  | 70  | 85     | 13                  | 03H      | 0.87      | <TS |
| 1007 | A  | 70  | 107    | 16                  | 04C      | -0.85     | <TS |
| 1008 | A  | 70  | 107    | 9                   | 04H      | 0.13      | <TS |
| 1009 | A  | 70  | 109    | 15                  | 03C      | 0.88      | <TS |
| 1010 | A  | 70  | 115    | 13                  | DBH      | 1.62      | <TS |
| 1011 | A  | 70  | 115    | 13                  | 03H      | 0.95      | <TS |
| 1012 | A  | 70  | 119    | 16                  | 04C      | 0.85      | <TS |
| 1013 | A  | 70  | 123    | 13                  | 03C      | -0.85     | <TS |
| 1014 | A  | 70  | 129    | 12                  | DBC      | 1.75      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1015 | A  | 70  | 137    | 17                  | 06H      | 0.85      | <TS |
| 1016 | A  | 70  | 143    | 14                  | DBH      | 1.95      | <TS |
| 1017 | A  | 70  | 145    | 13                  | DBC      | -1.91     | <TS |
| 1018 | A  | 70  | 145    | 13                  | VS3      | 0.81      | <TS |
| 1019 | A  | 70  | 153    | 24                  | VS3      | -0.91     | <TS |
| 1020 | A  | 70  | 153    | 15                  | VS3      | 0.91      | <TS |
| 1021 | A  | 70  | 153    | 11                  | 02C      | -0.82     | <TS |
| 1022 | A  | 70  | 153    | 13                  | DBH      | -1.64     | <TS |
| 1023 | A  | 71  | 34     | 9                   | 03H      | -0.84     | <TS |
| 1024 | A  | 71  | 40     | 9                   | 06C      | 0.86      | <TS |
| 1025 | A  | 71  | 54     | 15                  | 03C      | 0.83      | <TS |
| 1026 | A  | 71  | 54     | 13                  | 04H      | 1.04      | <TS |
| 1027 | A  | 71  | 58     | 13                  | 04C      | -0.99     | <TS |
| 1028 | A  | 71  | 78     | 17                  | 06C      | -0.9      | <TS |
| 1029 | A  | 71  | 82     | 11                  | 03H      | 0.86      | <TS |
| 1030 | A  | 71  | 90     | 6                   | 05C      | 0.9       | <TS |
| 1031 | A  | 71  | 104    | 11                  | VS3      | 0.9       | <TS |
| 1032 | A  | 71  | 108    | 11                  | 06C      | 0.86      | <TS |
| 1033 | A  | 71  | 108    | 12                  | 05C      | 0.88      | <TS |
| 1034 | A  | 71  | 108    | 11                  | 04C      | 0.13      | <TS |
| 1035 | A  | 71  | 108    | 11                  | 03C      | -0.94     | <TS |
| 1036 | A  | 71  | 108    | 13                  | 02C      | -0.15     | <TS |
| 1037 | A  | 71  | 110    | 12                  | 03H      | -0.17     | <TS |
| 1038 | A  | 71  | 110    | 15                  | 04H      | 0.81      | <TS |
| 1039 | A  | 71  | 116    | 10                  | 03C      | 0.86      | <TS |
| 1040 | A  | 71  | 122    | 13                  | 03C      | 0.79      | <TS |
| 1041 | A  | 71  | 126    | 22                  | 05C      | 0.88      | <TS |
| 1042 | A  | 71  | 126    | 8                   | 05C      | 0.13      | <TS |
| 1043 | A  | 71  | 126    | 11                  | VS5      | -0.85     | <TS |
| 1044 | A  | 71  | 126    | 9                   | VS5      | 0.83      | <TS |
| 1045 | A  | 71  | 134    | 18                  | VS3      | -0.77     | <TS |
| 1046 | A  | 71  | 150    | 14                  | 06H      | 0.91      | <TS |
| 1047 | A  | 72  | 29     | 7                   | DBC      | 1.98      | <TS |
| 1048 | A  | 72  | 47     | 9                   | 04C      | -0.22     | <TS |
| 1049 | A  | 72  | 53     | 8                   | 04C      | 0.91      | <TS |
| 1050 | A  | 72  | 53     | 13                  | 04C      | -0.94     | <TS |
| 1051 | A  | 72  | 53     | 16                  | 02C      | 0.86      | <TS |
| 1052 | A  | 72  | 55     | 13                  | 04C      | -0.18     | <TS |
| 1053 | A  | 72  | 55     | 15                  | 03C      | -0.92     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1054 | A  | 72  | 61     | 15                  | 04C      | -0.88     | <TS |
| 1055 | A  | 72  | 85     | 10                  | 05C      | 0.13      | <TS |
| 1056 | A  | 72  | 89     | 10                  | 02C      | 0.88      | <TS |
| 1057 | A  | 72  | 109    | 10                  | 04H      | 0.15      | <TS |
| 1058 | A  | 72  | 111    | 10                  | 04H      | 0.92      | <TS |
| 1059 | A  | 72  | 127    | 16                  | VS4      | -0.07     | <TS |
| 1060 | A  | 72  | 127    | 18                  | 04C      | 0.88      | <TS |
| 1061 | A  | 72  | 131    | 12                  | DBH      | 1.93      | <TS |
| 1062 | A  | 72  | 143    | 20                  | DBC      | 1.99      | <TS |
| 1063 | A  | 72  | 149    | 17                  | DBH      | 1.97      | <TS |
| 1064 | A  | 72  | 151    | 11                  | 01H      | -0.11     | <TS |
| 1065 | A  | 73  | 14     | 14                  | 05H      | -0.98     | <TS |
| 1066 | A  | 73  | 14     | 18                  | VS4      | -1        | <TS |
| 1067 | A  | 73  | 14     | 15                  | VS4      | 0.89      | <TS |
| 1068 | A  | 73  | 44     | 20                  | 06C      | -0.96     | <TS |
| 1069 | A  | 73  | 44     | 16                  | 04H      | 0.91      | <TS |
| 1070 | A  | 73  | 46     | 10                  | 04H      | 0.94      | <TS |
| 1071 | A  | 73  | 56     | 13                  | 05C      | -0.9      | <TS |
| 1072 | A  | 73  | 66     | 17                  | 04C      | 0.79      | <TS |
| 1073 | A  | 73  | 110    | 11                  | 03H      | -0.86     | <TS |
| 1074 | A  | 73  | 112    | 12                  | 03C      | 0.9       | <TS |
| 1075 | A  | 73  | 124    | 13                  | 06C      | 0.92      | <TS |
| 1076 | A  | 73  | 134    | 17                  | 06C      | -0.83     | <TS |
| 1077 | A  | 73  | 152    | 15                  | VS3      | -0.83     | <TS |
| 1078 | A  | 73  | 152    | 15                  | VS3      | 0.98      | <TS |
| 1079 | A  | 74  | 15     | 19                  | VS4      | 1.1       | <TS |
| 1080 | A  | 74  | 15     | 11                  | 01C      | -0.95     | <TS |
| 1081 | A  | 74  | 19     | 12                  | DBC      | 1.43      | <TS |
| 1082 | A  | 74  | 33     | 12                  | DBC      | 1.48      | <TS |
| 1083 | A  | 74  | 59     | 7                   | 02C      | 0.9       | <TS |
| 1084 | A  | 74  | 79     | 13                  | 05C      | -0.88     | <TS |
| 1085 | A  | 74  | 121    | 13                  | 03H      | -0.86     | <TS |
| 1086 | A  | 74  | 123    | 9                   | 04H      | -0.84     | <TS |
| 1087 | A  | 74  | 123    | 11                  | 05C      | -0.92     | <TS |
| 1088 | A  | 74  | 123    | 15                  | 04C      | 0.94      | <TS |
| 1089 | A  | 74  | 125    | 14                  | 03H      | -0.9      | <TS |
| 1090 | A  | 74  | 127    | 12                  | 03C      | 1         | <TS |
| 1091 | A  | 74  | 129    | 10                  | VS5      | -0.86     | <TS |
| 1092 | A  | 74  | 145    | 14                  | DBC      | 1.8       | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1093 | A  | 74  | 149    | 11                  | DBC      | 1.51      | <TS |
| 1094 | A  | 75  | 16     | 17                  | 03H      | 0.43      | <TS |
| 1095 | A  | 75  | 16     | 29                  | VS5      | -1        | <TS |
| 1096 | A  | 75  | 16     | 15                  | 06C      | 0.02      | <TS |
| 1097 | A  | 75  | 20     | 14                  | 03H      | 0.87      | <TS |
| 1098 | A  | 75  | 20     | 14                  | 04H      | -0.81     | <TS |
| 1099 | A  | 75  | 28     | 15                  | DBH      | 1.81      | <TS |
| 1100 | A  | 75  | 32     | 12                  | DBH      | 1.76      | <TS |
| 1101 | A  | 75  | 40     | 12                  | 06C      | 0.85      | <TS |
| 1102 | A  | 75  | 44     | 37                  | VS3      | -1.01     | <TS |
| 1103 | A  | 75  | 44     | 22                  | VS3      | 0.99      | <TS |
| 1104 | A  | 75  | 48     | 10                  | DBH      | -1.59     | <TS |
| 1105 | A  | 75  | 48     | 14                  | 01C      | -0.84     | <TS |
| 1106 | A  | 75  | 50     | 24                  | VS3      | -0.86     | <TS |
| 1107 | A  | 75  | 50     | 18                  | VS3      | 0.86      | <TS |
| 1108 | A  | 75  | 56     | 14                  | 03C      | 0.84      | <TS |
| 1109 | A  | 75  | 58     | 14                  | VS3      | 1.01      | <TS |
| 1110 | A  | 75  | 68     | 15                  | 02C      | 0.85      | <TS |
| 1111 | A  | 75  | 76     | 13                  | 02H      | 0.9       | <TS |
| 1112 | A  | 75  | 76     | 12                  | 02H      | -0.91     | <TS |
| 1113 | A  | 75  | 82     | 11                  | 03H      | 0.89      | <TS |
| 1114 | A  | 75  | 92     | 11                  | 06H      | -0.78     | <TS |
| 1115 | A  | 75  | 104    | 14                  | 02C      | -0.85     | <TS |
| 1116 | A  | 75  | 110    | 12                  | DBC      | -1.48     | <TS |
| 1117 | A  | 75  | 114    | 15                  | VS3      | -0.83     | <TS |
| 1118 | A  | 75  | 120    | 15                  | 03C      | 0.81      | <TS |
| 1119 | A  | 75  | 126    | 12                  | DBH      | 1.8       | <TS |
| 1120 | A  | 75  | 128    | 14                  | VS5      | 0.9       | <TS |
| 1121 | A  | 75  | 136    | 15                  | 04C      | 0.9       | <TS |
| 1122 | A  | 75  | 136    | 8                   | 04C      | -0.11     | <TS |
| 1123 | A  | 75  | 148    | 12                  | 06C      | 0.88      | <TS |
| 1124 | A  | 75  | 150    | 17                  | 02C      | 0.81      | <TS |
| 1125 | A  | 75  | 150    | 13                  | 04C      | 0.84      | <TS |
| 1126 | A  | 76  | 15     | 34                  | DBC      | -1.76     | <TS |
| 1127 | A  | 76  | 15     | 11                  | DBC      | 1.98      | <TS |
| 1128 | A  | 76  | 15     | 11                  | 06C      | 0.85      | <TS |
| 1129 | A  | 76  | 15     | 12                  | 01C      | 0.2       | <TS |
| 1130 | A  | 76  | 15     | 11                  | 03H      | -0.2      | <TS |
| 1131 | A  | 76  | 15     | 10                  | 04H      | -0.8      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1132 | A  | 76  | 17     | 14                  | DBC      | 1.66      | <TS |
| 1133 | A  | 76  | 19     | 11                  | DBC      | 1.7       | <TS |
| 1134 | A  | 76  | 21     | 12                  | 03H      | 0.87      | <TS |
| 1135 | A  | 76  | 21     | 13                  | 04H      | 0.84      | <TS |
| 1136 | A  | 76  | 37     | 9                   | 06H      | -0.13     | <TS |
| 1137 | A  | 76  | 51     | 14                  | VS4      | 0.95      | <TS |
| 1138 | A  | 76  | 51     | 6                   | VS3      | 0.95      | <TS |
| 1139 | A  | 76  | 51     | 8                   | VS3      | -0.9      | <TS |
| 1140 | A  | 76  | 51     | 11                  | 04C      | 0.11      | <TS |
| 1141 | A  | 76  | 53     | 14                  | 03C      | 0.9       | <TS |
| 1142 | A  | 76  | 55     | 21                  | 03C      | 0.9       | <TS |
| 1143 | A  | 76  | 57     | 11                  | 05C      | -0.9      | <TS |
| 1144 | A  | 76  | 57     | 14                  | 02C      | 0.79      | <TS |
| 1145 | A  | 76  | 65     | 10                  | 04C      | -0.11     | <TS |
| 1146 | A  | 76  | 69     | 14                  | 04H      | -0.21     | <TS |
| 1147 | A  | 76  | 79     | 11                  | 03H      | 0.92      | <TS |
| 1148 | A  | 76  | 91     | 16                  | 02C      | 0.83      | <TS |
| 1149 | A  | 76  | 97     | 8                   | 04C      | -0.92     | <TS |
| 1150 | A  | 76  | 97     | 11                  | 04C      | 0.9       | <TS |
| 1151 | A  | 76  | 101    | 15                  | 02H      | -0.88     | <TS |
| 1152 | A  | 76  | 101    | 13                  | 03H      | 0.88      | <TS |
| 1153 | A  | 76  | 103    | 10                  | 03H      | -0.04     | <TS |
| 1154 | A  | 76  | 107    | 9                   | 05C      | 0.92      | <TS |
| 1155 | A  | 76  | 111    | 14                  | 05C      | 0.81      | <TS |
| 1156 | A  | 76  | 111    | 18                  | 04C      | 0.9       | <TS |
| 1157 | A  | 76  | 131    | 15                  | VS4      | 0.99      | <TS |
| 1158 | A  | 76  | 151    | 12                  | VS4      | 0.89      | <TS |
| 1159 | A  | 77  | 16     | 29                  | VS4      | -0.97     | <TS |
| 1160 | A  | 77  | 16     | 14                  | DBC      | 1.63      | <TS |
| 1161 | A  | 77  | 18     | 16                  | 05H      | -0.99     | <TS |
| 1162 | A  | 77  | 18     | 10                  | 07C      | -0.02     | <TS |
| 1163 | A  | 77  | 18     | 12                  | 06H      | -0.55     | <TS |
| 1164 | A  | 77  | 20     | 10                  | 06H      | -0.24     | <TS |
| 1165 | A  | 77  | 20     | 11                  | DBC      | -1.28     | <TS |
| 1166 | A  | 77  | 22     | 14                  | 06H      | 0.93      | <TS |
| 1167 | A  | 77  | 22     | 10                  | 03H      | 0.9       | <TS |
| 1168 | A  | 77  | 24     | 16                  | 06H      | 1         | <TS |
| 1169 | A  | 77  | 24     | 9                   | 03H      | 0.9       | <TS |
| 1170 | A  | 77  | 24     | 9                   | 04H      | -0.15     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1171 | A  | 77  | 28     | 9                   | 06H      | 0.93      | <TS |
| 1172 | A  | 77  | 44     | 23                  | VS5      | 0.97      | <TS |
| 1173 | A  | 77  | 44     | 12                  | VS4      | 0.15      | <TS |
| 1174 | A  | 77  | 44     | 13                  | VS4      | -0.22     | <TS |
| 1175 | A  | 77  | 44     | 19                  | VS3      | 0.79      | <TS |
| 1176 | A  | 77  | 50     | 13                  | 07C      | 0.4       | <TS |
| 1177 | A  | 77  | 52     | 12                  | 02C      | 1.01      | <TS |
| 1178 | A  | 77  | 52     | 9                   | 03C      | -0.87     | <TS |
| 1179 | A  | 77  | 52     | 10                  | 06C      | -0.86     | <TS |
| 1180 | A  | 77  | 62     | 16                  | 03C      | 0.88      | <TS |
| 1181 | A  | 77  | 68     | 12                  | 02H      | 0.92      | <TS |
| 1182 | A  | 77  | 76     | 10                  | VS5      | 0.95      | <TS |
| 1183 | A  | 77  | 82     | 14                  | 05C      | 0.9       | <TS |
| 1184 | A  | 77  | 92     | 15                  | 02C      | -0.92     | <TS |
| 1185 | A  | 77  | 98     | 7                   | 03H      | -0.06     | <TS |
| 1186 | A  | 77  | 98     | 6                   | 03H      | -0.91     | <TS |
| 1187 | A  | 77  | 102    | 12                  | 03H      | 0.89      | <TS |
| 1188 | A  | 77  | 116    | 10                  | 04H      | -0.92     | <TS |
| 1189 | A  | 77  | 122    | 18                  | 06C      | 0.79      | <TS |
| 1190 | A  | 77  | 124    | 16                  | 03C      | 0.88      | <TS |
| 1191 | A  | 77  | 124    | 12                  | 03C      | -0.9      | <TS |
| 1192 | A  | 77  | 126    | 14                  | 06H      | 0.9       | <TS |
| 1193 | A  | 77  | 138    | 17                  | 07C      | -1.23     | <TS |
| 1194 | A  | 77  | 144    | 10                  | 04C      | 0.81      | <TS |
| 1195 | A  | 77  | 148    | 24                  | 03C      | 0.81      | <TS |
| 1196 | A  | 77  | 148    | 16                  | 07H      | -0.99     | <TS |
| 1197 | A  | 77  | 150    | 17                  | 02C      | 0.88      | <TS |
| 1198 | A  | 78  | 17     | 15                  | DBH      | -1.57     | <TS |
| 1199 | A  | 78  | 19     | 11                  | DBC      | -1.78     | <TS |
| 1200 | A  | 78  | 25     | 13                  | 05C      | -0.9      | <TS |
| 1201 | A  | 78  | 25     | 11                  | DBC      | -1.62     | <TS |
| 1202 | A  | 78  | 75     | 13                  | 02H      | 0.19      | <TS |
| 1203 | A  | 78  | 87     | 12                  | 01C      | 0.81      | <TS |
| 1204 | A  | 78  | 101    | 14                  | 03H      | 0.9       | <TS |
| 1205 | A  | 78  | 105    | 14                  | VS3      | 0.83      | <TS |
| 1206 | A  | 78  | 105    | 12                  | 02H      | -0.88     | <TS |
| 1207 | A  | 78  | 109    | 9                   | 04H      | -0.09     | <TS |
| 1208 | A  | 78  | 113    | 21                  | 02C      | 0.85      | <TS |
| 1209 | A  | 78  | 119    | 14                  | 03H      | 0.88      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1210 | A  | 78  | 119    | 13               | 02C      | 0.91      | <TS |
| 1211 | A  | 78  | 127    | 11               | 03C      | 0.85      | <TS |
| 1212 | A  | 78  | 147    | 15               | 02C      | -0.18     | <TS |
| 1213 | A  | 78  | 149    | 11               | DBC      | -1.66     | <TS |
| 1214 | A  | 79  | 18     | 17               | VS4      | -0.97     | <TS |
| 1215 | A  | 79  | 18     | 10               | VS4      | 0.99      | <TS |
| 1216 | A  | 79  | 18     | 13               | DBC      | 1.7       | <TS |
| 1217 | A  | 79  | 20     | 12               | 05H      | 0.87      | <TS |
| 1218 | A  | 79  | 22     | 11               | 07C      | 0.93      | <TS |
| 1219 | A  | 79  | 30     | 10               | DBH      | -1.7      | <TS |
| 1220 | A  | 79  | 48     | 13               | 04C      | -0.18     | <TS |
| 1221 | A  | 79  | 68     | 14               | 07H      | 0.92      | <TS |
| 1222 | A  | 79  | 68     | 13               | 04C      | -0.9      | <TS |
| 1223 | A  | 79  | 72     | 15               | 04H      | 0.87      | <TS |
| 1224 | A  | 79  | 72     | 17               | VS3      | -0.09     | <TS |
| 1225 | A  | 79  | 72     | 6                | 05H      | -0.87     | <TS |
| 1226 | A  | 79  | 74     | 11               | 05C      | -0.9      | <TS |
| 1227 | A  | 79  | 78     | 10               | 05C      | 0.84      | <TS |
| 1228 | A  | 79  | 82     | 15               | 03H      | 0.86      | <TS |
| 1229 | A  | 79  | 82     | 8                | 05C      | 0.88      | <TS |
| 1230 | A  | 79  | 86     | 11               | 01C      | 0.86      | <TS |
| 1231 | A  | 79  | 90     | 15               | 04C      | -0.13     | <TS |
| 1232 | A  | 79  | 94     | 12               | 03C      | -0.92     | <TS |
| 1233 | A  | 79  | 100    | 8                | 02H      | 0.86      | <TS |
| 1234 | A  | 79  | 100    | 13               | 03H      | 0.88      | <TS |
| 1235 | A  | 79  | 100    | 9                | 05H      | 0.87      | <TS |
| 1236 | A  | 79  | 104    | 13               | 05H      | 0.91      | <TS |
| 1237 | A  | 79  | 104    | 7                | 05H      | -0.04     | <TS |
| 1238 | A  | 79  | 114    | 11               | 02H      | -0.8      | <TS |
| 1239 | A  | 79  | 114    | 10               | 05C      | -0.87     | <TS |
| 1240 | A  | 79  | 116    | 11               | 03H      | -0.86     | <TS |
| 1241 | A  | 79  | 116    | 15               | 03C      | -0.92     | <TS |
| 1242 | A  | 79  | 120    | 11               | 04H      | 0.82      | <TS |
| 1243 | A  | 79  | 128    | 22               | 04C      | 0.9       | <TS |
| 1244 | A  | 79  | 144    | 15               | VS5      | -0.86     | <TS |
| 1245 | A  | 79  | 144    | 24               | VS5      | 0.89      | <TS |
| 1246 | A  | 79  | 148    | 12               | 02C      | 0.86      | <TS |
| 1247 | A  | 79  | 150    | 21               | VS4      | 0.87      | <TS |
| 1248 | A  | 79  | 150    | 14               | 02C      | 0.9       | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1249 | A  | 79  | 150    | 17                  | 02C      | 0.09      | <TS |
| 1250 | A  | 80  | 17     | 10                  | VS4      | 0.62      | <TS |
| 1251 | A  | 80  | 27     | 13                  | VS3      | 0.95      | <TS |
| 1252 | A  | 80  | 57     | 11                  | 04H      | 0.11      | <TS |
| 1253 | A  | 80  | 57     | 16                  | 04H      | 0.93      | <TS |
| 1254 | A  | 80  | 59     | 9                   | 04C      | 0.83      | <TS |
| 1255 | A  | 80  | 65     | 12                  | 04C      | 0.81      | <TS |
| 1256 | A  | 80  | 71     | 10                  | 04H      | -0.8      | <TS |
| 1257 | A  | 80  | 77     | 18                  | 04H      | 0.84      | <TS |
| 1258 | A  | 80  | 77     | 10                  | 02H      | -0.91     | <TS |
| 1259 | A  | 80  | 77     | 11                  | 02H      | 0.89      | <TS |
| 1260 | A  | 80  | 99     | 10                  | 07C      | 0.9       | <TS |
| 1261 | A  | 80  | 107    | 18                  | DBH      | 1.73      | <TS |
| 1262 | A  | 80  | 119    | 10                  | 03C      | 0.79      | <TS |
| 1263 | A  | 80  | 125    | 13                  | 05H      | 0.15      | <TS |
| 1264 | A  | 80  | 133    | 9                   | 04H      | -0.9      | <TS |
| 1265 | A  | 80  | 133    | 11                  | 04H      | 0.88      | <TS |
| 1266 | A  | 80  | 143    | 13                  | 05C      | 0.85      | <TS |
| 1267 | A  | 80  | 145    | 10                  | 02C      | -0.2      | <TS |
| 1268 | A  | 80  | 147    | 17                  | 07H      | 0.81      | <TS |
| 1269 | A  | 80  | 149    | 18                  | VS4      | -0.85     | <TS |
| 1270 | A  | 81  | 18     | 12                  | 01H      | 0.95      | <TS |
| 1271 | A  | 81  | 18     | 12                  | VS4      | -0.73     | <TS |
| 1272 | A  | 81  | 18     | 9                   | DBC      | -1.9      | <TS |
| 1273 | A  | 81  | 20     | 11                  | 04H      | 0.87      | <TS |
| 1274 | A  | 81  | 20     | 9                   | 04H      | -0.21     | <TS |
| 1275 | A  | 81  | 22     | 9                   | DBC      | -1.32     | <TS |
| 1276 | A  | 81  | 24     | 10                  | DBC      | -1.06     | <TS |
| 1277 | A  | 81  | 46     | 15                  | VS3      | 0.02      | <TS |
| 1278 | A  | 81  | 46     | 14                  | VS3      | 0.88      | <TS |
| 1279 | A  | 81  | 46     | 11                  | VS4      | -0.88     | <TS |
| 1280 | A  | 81  | 46     | 20                  | VS5      | 0.88      | <TS |
| 1281 | A  | 81  | 54     | 14                  | 05C      | -0.9      | <TS |
| 1282 | A  | 81  | 56     | 9                   | 05C      | -0.92     | <TS |
| 1283 | A  | 81  | 70     | 13                  | VS4      | -0.77     | <TS |
| 1284 | A  | 81  | 84     | 28                  | VS4      | 0.86      | <TS |
| 1285 | A  | 81  | 84     | 19                  | 07C      | -0.11     | <TS |
| 1286 | A  | 81  | 84     | 12                  | 05C      | -0.9      | <TS |
| 1287 | A  | 81  | 84     | 11                  | 04C      | -0.88     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1288 | A  | 81  | 94     | 11                  | DBH      | 1.86      | <TS |
| 1289 | A  | 81  | 94     | 11                  | 02C      | -0.9      | <TS |
| 1290 | A  | 81  | 94     | 8                   | 02C      | -0.2      | <TS |
| 1291 | A  | 81  | 94     | 10                  | VS4      | 0.88      | <TS |
| 1292 | A  | 81  | 100    | 11                  | 05H      | 0.89      | <TS |
| 1293 | A  | 81  | 102    | 9                   | 07C      | -0.13     | <TS |
| 1294 | A  | 81  | 102    | 13                  | 07C      | -0.9      | <TS |
| 1295 | A  | 81  | 106    | 13                  | 05C      | 0.86      | <TS |
| 1296 | A  | 81  | 118    | 9                   | VS3      | -0.99     | <TS |
| 1297 | A  | 81  | 118    | 11                  | 04C      | -0.92     | <TS |
| 1298 | A  | 81  | 118    | 9                   | 03C      | -0.83     | <TS |
| 1299 | A  | 81  | 118    | 6                   | 04C      | 0.96      | <TS |
| 1300 | A  | 81  | 118    | 10                  | 03C      | 0.79      | <TS |
| 1301 | A  | 81  | 130    | 20                  | VS3      | -0.72     | <TS |
| 1302 | A  | 81  | 130    | 18                  | VS3      | -0.13     | <TS |
| 1303 | A  | 81  | 148    | 20                  | 02C      | 0.8       | <TS |
| 1304 | A  | 81  | 148    | 21                  | 05C      | 0.07      | <TS |
| 1305 | A  | 82  | 19     | 7                   | VS4      | -0.97     | <TS |
| 1306 | A  | 82  | 19     | 12                  | VS4      | 0.62      | <TS |
| 1307 | A  | 82  | 33     | 17                  | VS3      | 0.9       | <TS |
| 1308 | A  | 82  | 35     | 7                   | VS3      | 0.22      | <TS |
| 1309 | A  | 82  | 61     | 12                  | VS3      | -0.83     | <TS |
| 1310 | A  | 82  | 71     | 10                  | VS3      | 0.9       | <TS |
| 1311 | A  | 82  | 79     | 14                  | 07C      | 0.79      | <TS |
| 1312 | A  | 82  | 83     | 13                  | 03C      | -0.92     | <TS |
| 1313 | A  | 82  | 89     | 18                  | 05C      | 0.9       | <TS |
| 1314 | A  | 82  | 91     | 11                  | 07C      | 0.84      | <TS |
| 1315 | A  | 82  | 101    | 10                  | DBH      | -1.99     | <TS |
| 1316 | A  | 82  | 101    | 9                   | 05H      | -0.11     | <TS |
| 1317 | A  | 82  | 107    | 14                  | 04H      | 0.87      | <TS |
| 1318 | A  | 82  | 121    | 12                  | 05H      | 0.91      | <TS |
| 1319 | A  | 82  | 121    | 9                   | 07C      | 0.9       | <TS |
| 1320 | A  | 82  | 123    | 11                  | 03C      | -0.87     | <TS |
| 1321 | A  | 82  | 135    | 17                  | VS3      | -0.92     | <TS |
| 1322 | A  | 82  | 141    | 19                  | VS3      | -0.79     | <TS |
| 1323 | A  | 83  | 50     | 13                  | 05C      | 0.86      | <TS |
| 1324 | A  | 83  | 54     | 12                  | 07C      | -0.9      | <TS |
| 1325 | A  | 83  | 74     | 12                  | 05H      | 0.91      | <TS |
| 1326 | A  | 83  | 76     | 16                  | 02H      | 0.96      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1327 | A  | 83  | 84     | 10               | 04H      | -0.8      | <TS |
| 1328 | A  | 83  | 84     | 11               | 05H      | 0.93      | <TS |
| 1329 | A  | 83  | 84     | 13               | 02C      | 0.83      | <TS |
| 1330 | A  | 83  | 86     | 13               | 04H      | 0.89      | <TS |
| 1331 | A  | 83  | 88     | 18               | 04C      | 0.9       | <TS |
| 1332 | A  | 83  | 88     | 8                | 04C      | -0.83     | <TS |
| 1333 | A  | 83  | 90     | 17               | 07H      | 0.92      | <TS |
| 1334 | A  | 83  | 90     | 10               | 05H      | -0.13     | <TS |
| 1335 | A  | 83  | 100    | 7                | 03H      | -0.9      | <TS |
| 1336 | A  | 83  | 100    | 17               | 04H      | 0.88      | <TS |
| 1337 | A  | 83  | 100    | 9                | 05H      | 0.91      | <TS |
| 1338 | A  | 83  | 102    | 13               | 05C      | -0.87     | <TS |
| 1339 | A  | 83  | 102    | 15               | 05C      | -0.15     | <TS |
| 1340 | A  | 83  | 108    | 10               | 04H      | 1.07      | <TS |
| 1341 | A  | 83  | 112    | 16               | 02C      | -0.15     | <TS |
| 1342 | A  | 83  | 114    | 16               | VS2      | -0.79     | <TS |
| 1343 | A  | 83  | 116    | 11               | VS2      | -0.24     | <TS |
| 1344 | A  | 83  | 116    | 10               | VS2      | 0.92      | <TS |
| 1345 | A  | 83  | 118    | 13               | 03H      | 0.94      | <TS |
| 1346 | A  | 83  | 120    | 9                | 04C      | 0.81      | <TS |
| 1347 | A  | 83  | 122    | 18               | VS2      | 0.83      | <TS |
| 1348 | A  | 83  | 128    | 11               | DBH      | 1.73      | <TS |
| 1349 | A  | 83  | 136    | 11               | DBH      | 1.58      | <TS |
| 1350 | A  | 83  | 146    | 15               | 04C      | -0.87     | <TS |
| 1351 | A  | 83  | 148    | 15               | VS4      | -1.14     | <TS |
| 1352 | A  | 83  | 148    | 15               | VS4      | -0.74     | <TS |
| 1353 | A  | 83  | 148    | 14               | 07C      | 0.81      | <TS |
| 1354 | A  | 83  | 148    | 20               | 03C      | -0.9      | <TS |
| 1355 | A  | 84  | 19     | 18               | 01H      | -0.45     | <TS |
| 1356 | A  | 84  | 19     | 12               | VS3      | 0.31      | <TS |
| 1357 | A  | 84  | 19     | 24               | VS4      | -0.95     | <TS |
| 1358 | A  | 84  | 19     | 23               | VS4      | 0.73      | <TS |
| 1359 | A  | 84  | 19     | 18               | VS5      | 0.95      | <TS |
| 1360 | A  | 84  | 19     | 16               | VS2      | 0.71      | <TS |
| 1361 | A  | 84  | 25     | 9                | VS2      | 0.64      | <TS |
| 1362 | A  | 84  | 29     | 16               | VS2      | 0.69      | <TS |
| 1363 | A  | 84  | 29     | 12               | 05C      | -0.97     | <TS |
| 1364 | A  | 84  | 33     | 19               | VS2      | -0.82     | <TS |
| 1365 | A  | 84  | 37     | 18               | VS2      | -0.8      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1366 | A  | 84  | 39     | 10                  | VS2      | -0.81     | <TS |
| 1367 | A  | 84  | 39     | 18                  | VS3      | -0.77     | <TS |
| 1368 | A  | 84  | 41     | 13                  | 07H      | 0.84      | <TS |
| 1369 | A  | 84  | 45     | 13                  | VS6      | -0.81     | <TS |
| 1370 | A  | 84  | 47     | 10                  | 06H      | 0.88      | <TS |
| 1371 | A  | 84  | 51     | 11                  | VS2      | 0.62      | <TS |
| 1372 | A  | 84  | 51     | 12                  | VS5      | 0.9       | <TS |
| 1373 | A  | 84  | 53     | 24                  | VS2      | -0.73     | <TS |
| 1374 | A  | 84  | 61     | 11                  | 03C      | 0.13      | <TS |
| 1375 | A  | 84  | 61     | 29                  | 03C      | 0.94      | <TS |
| 1376 | A  | 84  | 73     | 14                  | 05C      | 0.88      | <TS |
| 1377 | A  | 84  | 73     | 7                   | 05C      | 0.11      | <TS |
| 1378 | A  | 84  | 73     | 11                  | 04H      | 0.86      | <TS |
| 1379 | A  | 84  | 73     | 9                   | 02H      | 0.13      | <TS |
| 1380 | A  | 84  | 75     | 9                   | 06C      | -0.9      | <TS |
| 1381 | A  | 84  | 81     | 10                  | 04H      | 0.87      | <TS |
| 1382 | A  | 84  | 85     | 11                  | 02H      | 0.89      | <TS |
| 1383 | A  | 84  | 85     | 10                  | 02H      | -0.86     | <TS |
| 1384 | A  | 84  | 85     | 11                  | 04H      | -0.87     | <TS |
| 1385 | A  | 84  | 85     | 18                  | 04H      | 0.87      | <TS |
| 1386 | A  | 84  | 93     | 12                  | 05C      | -0.92     | <TS |
| 1387 | A  | 84  | 93     | 11                  | 04C      | -0.88     | <TS |
| 1388 | A  | 84  | 97     | 8                   | 05H      | 0.22      | <TS |
| 1389 | A  | 84  | 99     | 16                  | VS2      | -0.88     | <TS |
| 1390 | A  | 84  | 119    | 10                  | 04C      | 0.98      | <TS |
| 1391 | A  | 84  | 125    | 13                  | 04C      | -0.94     | <TS |
| 1392 | A  | 84  | 141    | 23                  | 04C      | 0.85      | <TS |
| 1393 | A  | 84  | 143    | 13                  | 03C      | 0.87      | <TS |
| 1394 | A  | 84  | 147    | 25                  | VS3      | 0.77      | <TS |
| 1395 | A  | 84  | 147    | 14                  | VS5      | 0.92      | <TS |
| 1396 | A  | 85  | 20     | 25                  | VS4      | -0.93     | <TS |
| 1397 | A  | 85  | 20     | 23                  | VS4      | 0.62      | <TS |
| 1398 | A  | 85  | 26     | 19                  | 03H      | 0.8       | <TS |
| 1399 | A  | 85  | 28     | 10                  | VS3      | -0.78     | <TS |
| 1400 | A  | 85  | 30     | 12                  | VS3      | -0.89     | <TS |
| 1401 | A  | 85  | 32     | 12                  | 03C      | -0.95     | <TS |
| 1402 | A  | 85  | 32     | 14                  | VS5      | 0.84      | <TS |
| 1403 | A  | 85  | 40     | 7                   | VS5      | -0.99     | <TS |
| 1404 | A  | 85  | 62     | 20                  | 04C      | 0.5       | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1405 | A  | 85  | 84     | 12                  | 05H      | 0.85      | <TS |
| 1406 | A  | 85  | 92     | 16                  | 02C      | 0.88      | <TS |
| 1407 | A  | 85  | 94     | 10                  | 02C      | 0.09      | <TS |
| 1408 | A  | 85  | 104    | 13                  | 03C      | 0.92      | <TS |
| 1409 | A  | 85  | 116    | 16                  | 03C      | 0.39      | <TS |
| 1410 | A  | 85  | 124    | 11                  | 03C      | 0.9       | <TS |
| 1411 | A  | 85  | 130    | 12                  | 04C      | -0.94     | <TS |
| 1412 | A  | 85  | 146    | 17                  | 02C      | 0.79      | <TS |
| 1413 | A  | 85  | 146    | 22                  | 03C      | -0.94     | <TS |
| 1414 | A  | 86  | 21     | 14                  | VS4      | -0.93     | <TS |
| 1415 | A  | 86  | 35     | 13                  | VS6      | -0.75     | <TS |
| 1416 | A  | 86  | 35     | 13                  | VS6      | -0.73     | <TS |
| 1417 | A  | 86  | 51     | 10                  | VS2      | 0.88      | <TS |
| 1418 | A  | 86  | 55     | 16                  | 06C      | 0.9       | <TS |
| 1419 | A  | 86  | 57     | 8                   | 05C      | 0.88      | <TS |
| 1420 | A  | 86  | 59     | 11                  | 03C      | 0.87      | <TS |
| 1421 | A  | 86  | 59     | 8                   | 02C      | 0.92      | <TS |
| 1422 | A  | 86  | 63     | 13                  | 06C      | 0.9       | <TS |
| 1423 | A  | 86  | 65     | 12                  | 05H      | 0.89      | <TS |
| 1424 | A  | 86  | 67     | 10                  | 04C      | -0.89     | <TS |
| 1425 | A  | 86  | 67     | 8                   | 02C      | 0.9       | <TS |
| 1426 | A  | 86  | 69     | 10                  | 06C      | -0.9      | <TS |
| 1427 | A  | 86  | 81     | 8                   | 02H      | -0.84     | <TS |
| 1428 | A  | 86  | 85     | 7                   | 05H      | -0.13     | <TS |
| 1429 | A  | 86  | 97     | 16                  | 03H      | 0.88      | <TS |
| 1430 | A  | 86  | 99     | 12                  | VS6      | -0.35     | <TS |
| 1431 | A  | 86  | 101    | 11                  | 05C      | -0.87     | <TS |
| 1432 | A  | 86  | 101    | 15                  | 04H      | -0.92     | <TS |
| 1433 | A  | 86  | 107    | 13                  | 04H      | 0.85      | <TS |
| 1434 | A  | 86  | 111    | 10                  | 03H      | -0.9      | <TS |
| 1435 | A  | 86  | 111    | 12                  | 04H      | 0.02      | <TS |
| 1436 | A  | 86  | 111    | 17                  | 05C      | 0.85      | <TS |
| 1437 | A  | 86  | 115    | 12                  | 02C      | -0.99     | <TS |
| 1438 | A  | 86  | 117    | 10                  | 03H      | 0.85      | <TS |
| 1439 | A  | 86  | 117    | 13                  | 06C      | 0.89      | <TS |
| 1440 | A  | 86  | 143    | 15                  | 03C      | -0.87     | <TS |
| 1441 | A  | 86  | 145    | 13                  | 03C      | -0.87     | <TS |
| 1442 | A  | 86  | 145    | 8                   | 03C      | 0.92      | <TS |
| 1443 | A  | 86  | 145    | 17                  | 04C      | 0.86      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1444 | A  | 86  | 145    | 10                  | 02C      | 0.65      | <TS |
| 1445 | A  | 87  | 20     | 15                  | VS4      | -0.22     | <TS |
| 1446 | A  | 87  | 20     | 23                  | VS4      | 0.64      | <TS |
| 1447 | A  | 87  | 20     | 12                  | VS4      | -0.91     | <TS |
| 1448 | A  | 87  | 22     | 11                  | 01H      | 0.9       | <TS |
| 1449 | A  | 87  | 22     | 12                  | 04H      | 0.83      | <TS |
| 1450 | A  | 87  | 22     | 18                  | VS4      | -0.93     | <TS |
| 1451 | A  | 87  | 36     | 9                   | 07C      | 0.82      | <TS |
| 1452 | A  | 87  | 36     | 11                  | DBH      | 1.99      | <TS |
| 1453 | A  | 87  | 40     | 16                  | 07H      | -0.95     | <TS |
| 1454 | A  | 87  | 40     | 7                   | 07H      | -0.22     | <TS |
| 1455 | A  | 87  | 40     | 9                   | VS2      | -0.93     | <TS |
| 1456 | A  | 87  | 40     | 16                  | 07C      | 0.79      | <TS |
| 1457 | A  | 87  | 40     | 8                   | VS4      | 0.6       | <TS |
| 1458 | A  | 87  | 56     | 11                  | 05H      | 0.91      | <TS |
| 1459 | A  | 87  | 56     | 14                  | 04C      | 0.92      | <TS |
| 1460 | A  | 87  | 58     | 15                  | VS2      | -0.9      | <TS |
| 1461 | A  | 87  | 60     | 17                  | VS2      | -0.84     | <TS |
| 1462 | A  | 87  | 60     | 10                  | 03C      | 0.88      | <TS |
| 1463 | A  | 87  | 60     | 12                  | 02C      | 0.84      | <TS |
| 1464 | A  | 87  | 82     | 13                  | 05H      | 0.95      | <TS |
| 1465 | A  | 87  | 82     | 8                   | 05C      | 0.9       | <TS |
| 1466 | A  | 87  | 88     | 9                   | 04H      | 0.31      | <TS |
| 1467 | A  | 87  | 90     | 9                   | 02C      | -0.2      | <TS |
| 1468 | A  | 87  | 90     | 10                  | 04H      | 0.93      | <TS |
| 1469 | A  | 87  | 92     | 10                  | 02C      | 0.88      | <TS |
| 1470 | A  | 87  | 92     | 18                  | 04C      | 0.83      | <TS |
| 1471 | A  | 87  | 92     | 15                  | 05C      | 0.85      | <TS |
| 1472 | A  | 87  | 92     | 10                  | 04H      | 0.95      | <TS |
| 1473 | A  | 87  | 92     | 11                  | 04H      | -0.74     | <TS |
| 1474 | A  | 87  | 100    | 13                  | 04H      | 0.84      | <TS |
| 1475 | A  | 87  | 100    | 9                   | 05C      | -0.88     | <TS |
| 1476 | A  | 87  | 102    | 20                  | 05H      | 0.88      | <TS |
| 1477 | A  | 87  | 102    | 10                  | 04H      | -0.09     | <TS |
| 1478 | A  | 87  | 102    | 9                   | 03H      | 0.83      | <TS |
| 1479 | A  | 87  | 104    | 11                  | 06H      | 0.94      | <TS |
| 1480 | A  | 87  | 106    | 12                  | 03H      | 0.85      | <TS |
| 1481 | A  | 87  | 106    | 12                  | 06H      | 0.24      | <TS |
| 1482 | A  | 87  | 108    | 12                  | VS2      | 0.74      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1483 | A  | 87  | 110    | 14               | 03H      | 0.77      | <TS |
| 1484 | A  | 87  | 112    | 14               | 04H      | 0.88      | <TS |
| 1485 | A  | 87  | 114    | 11               | 06H      | 0.15      | <TS |
| 1486 | A  | 87  | 116    | 19               | 04C      | 0.83      | <TS |
| 1487 | A  | 87  | 116    | 14               | 03C      | -0.11     | <TS |
| 1488 | A  | 87  | 120    | 12               | VS2      | 0.17      | <TS |
| 1489 | A  | 87  | 120    | 18               | VS2      | 0.72      | <TS |
| 1490 | A  | 87  | 120    | 11               | 05H      | -0.15     | <TS |
| 1491 | A  | 87  | 124    | 12               | 04C      | -0.99     | <TS |
| 1492 | A  | 87  | 136    | 10               | 03C      | -0.97     | <TS |
| 1493 | A  | 87  | 138    | 13               | 03H      | 0.87      | <TS |
| 1494 | A  | 87  | 142    | 9                | 03C      | -0.96     | <TS |
| 1495 | A  | 87  | 144    | 22               | 03C      | -0.86     | <TS |
| 1496 | A  | 87  | 144    | 17               | 04C      | 0.88      | <TS |
| 1497 | A  | 87  | 146    | 18               | VS4      | -0.96     | <TS |
| 1498 | A  | 87  | 146    | 22               | VS4      | 0.57      | <TS |
| 1499 | A  | 87  | 146    | 14               | 02C      | 0.77      | <TS |
| 1500 | A  | 88  | 21     | 25               | VS4      | -1        | <TS |
| 1501 | A  | 88  | 21     | 8                | VS4      | 0.2       | <TS |
| 1502 | A  | 88  | 25     | 10               | VS4      | -0.68     | <TS |
| 1503 | A  | 88  | 33     | 10               | 04H      | 0.84      | <TS |
| 1504 | A  | 88  | 53     | 18               | VS4      | 0.9       | <TS |
| 1505 | A  | 88  | 53     | 22               | 07C      | 0.92      | <TS |
| 1506 | A  | 88  | 57     | 13               | 06H      | 0.88      | <TS |
| 1507 | A  | 88  | 57     | 15               | VS6      | 0.72      | <TS |
| 1508 | A  | 88  | 57     | 20               | 07C      | 0.94      | <TS |
| 1509 | A  | 88  | 59     | 16               | 05C      | 0.86      | <TS |
| 1510 | A  | 88  | 59     | 15               | 05C      | 0.15      | <TS |
| 1511 | A  | 88  | 59     | 10               | 04C      | 0.84      | <TS |
| 1512 | A  | 88  | 59     | 8                | 03C      | 0.93      | <TS |
| 1513 | A  | 88  | 61     | 23               | 02C      | 0.9       | <TS |
| 1514 | A  | 88  | 61     | 24               | 03C      | 0.46      | <TS |
| 1515 | A  | 88  | 61     | 13               | 06C      | 0.9       | <TS |
| 1516 | A  | 88  | 73     | 20               | 02H      | -0.15     | <TS |
| 1517 | A  | 88  | 81     | 13               | 02C      | 0.9       | <TS |
| 1518 | A  | 88  | 83     | 15               | 04H      | -0.76     | <TS |
| 1519 | A  | 88  | 83     | 14               | 05H      | -0.74     | <TS |
| 1520 | A  | 88  | 89     | 16               | 06H      | 0.88      | <TS |
| 1521 | A  | 88  | 89     | 9                | 05H      | 0.11      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1522 | A  | 88  | 91     | 14                  | 05C      | 0.13      | <TS |
| 1523 | A  | 88  | 91     | 12                  | 04H      | 0.94      | <TS |
| 1524 | A  | 88  | 93     | 9                   | 04H      | 0.89      | <TS |
| 1525 | A  | 88  | 99     | 10                  | 06H      | -0.95     | <TS |
| 1526 | A  | 88  | 107    | 9                   | 04C      | 0.15      | <TS |
| 1527 | A  | 88  | 117    | 13                  | 06H      | 0.83      | <TS |
| 1528 | A  | 88  | 125    | 12                  | 03C      | -0.89     | <TS |
| 1529 | A  | 88  | 125    | 14                  | 04C      | -0.85     | <TS |
| 1530 | A  | 88  | 145    | 22                  | VS4      | 0.77      | <TS |
| 1531 | A  | 88  | 145    | 22                  | 04C      | -0.98     | <TS |
| 1532 | A  | 88  | 145    | 33                  | 02C      | 0.18      | <TS |
| 1533 | A  | 89  | 26     | 16                  | VS6      | 0.84      | <TS |
| 1534 | A  | 89  | 28     | 9                   | VS6      | 0.88      | <TS |
| 1535 | A  | 89  | 34     | 11                  | 04H      | -0.92     | <TS |
| 1536 | A  | 89  | 38     | 8                   | 04H      | -0.92     | <TS |
| 1537 | A  | 89  | 42     | 9                   | 07H      | -1.06     | <TS |
| 1538 | A  | 89  | 42     | 9                   | 07H      | 0.86      | <TS |
| 1539 | A  | 89  | 60     | 7                   | 04H      | -0.84     | <TS |
| 1540 | A  | 89  | 70     | 12                  | 05C      | -0.9      | <TS |
| 1541 | A  | 89  | 70     | 7                   | 05C      | 0.18      | <TS |
| 1542 | A  | 89  | 70     | 16                  | 06C      | 0.88      | <TS |
| 1543 | A  | 89  | 72     | 15                  | 01C      | 0.83      | <TS |
| 1544 | A  | 89  | 78     | 16                  | 07H      | 0.98      | <TS |
| 1545 | A  | 89  | 78     | 8                   | 07H      | -0.83     | <TS |
| 1546 | A  | 89  | 84     | 11                  | 04H      | -0.85     | <TS |
| 1547 | A  | 89  | 84     | 6                   | 03H      | 0.91      | <TS |
| 1548 | A  | 89  | 108    | 11                  | 04H      | 1         | <TS |
| 1549 | A  | 89  | 108    | 15                  | 05H      | 0.92      | <TS |
| 1550 | A  | 89  | 108    | 22                  | 06H      | 0.86      | <TS |
| 1551 | A  | 89  | 112    | 13                  | 05H      | -0.91     | <TS |
| 1552 | A  | 89  | 112    | 14                  | 05H      | 0.15      | <TS |
| 1553 | A  | 89  | 112    | 16                  | 05H      | 0.89      | <TS |
| 1554 | A  | 89  | 114    | 11                  | 03H      | -0.89     | <TS |
| 1555 | A  | 89  | 128    | 15                  | 03H      | 0.86      | <TS |
| 1556 | A  | 89  | 128    | 13                  | 05H      | 0.91      | <TS |
| 1557 | A  | 89  | 136    | 15                  | 03H      | 0.92      | <TS |
| 1558 | A  | 90  | 23     | 13                  | VS4      | -0.9      | <TS |
| 1559 | A  | 90  | 25     | 13                  | VS4      | 0.95      | <TS |
| 1560 | A  | 90  | 25     | 6                   | VS4      | -0.93     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1561 | A  | 90  | 31     | 10                  | 04H      | 0.87      | <TS |
| 1562 | A  | 90  | 35     | 9                   | 05H      | 0.92      | <TS |
| 1563 | A  | 90  | 55     | 13                  | 04C      | -0.92     | <TS |
| 1564 | A  | 90  | 59     | 7                   | 04H      | -0.15     | <TS |
| 1565 | A  | 90  | 59     | 9                   | 04H      | 0.88      | <TS |
| 1566 | A  | 90  | 79     | 8                   | 05H      | 1.01      | <TS |
| 1567 | A  | 90  | 79     | 10                  | 06C      | 0.83      | <TS |
| 1568 | A  | 90  | 81     | 11                  | 06H      | 0.9       | <TS |
| 1569 | A  | 90  | 87     | 15                  | 03H      | 0.95      | <TS |
| 1570 | A  | 90  | 87     | 19                  | 06H      | 0.55      | <TS |
| 1571 | A  | 90  | 87     | 15                  | 02C      | 0.88      | <TS |
| 1572 | A  | 90  | 87     | 11                  | 04C      | 0.33      | <TS |
| 1573 | A  | 90  | 91     | 12                  | 03C      | 0.94      | <TS |
| 1574 | A  | 90  | 93     | 12                  | 04C      | 0.9       | <TS |
| 1575 | A  | 90  | 93     | 19                  | 03C      | 0.75      | <TS |
| 1576 | A  | 90  | 95     | 10                  | 02C      | -0.94     | <TS |
| 1577 | A  | 90  | 95     | 18                  | 04C      | 0.88      | <TS |
| 1578 | A  | 90  | 95     | 18                  | 06C      | 0.88      | <TS |
| 1579 | A  | 90  | 95     | 11                  | 07C      | 0.13      | <TS |
| 1580 | A  | 90  | 99     | 10                  | 07H      | -0.9      | <TS |
| 1581 | A  | 90  | 101    | 10                  | 03H      | -0.88     | <TS |
| 1582 | A  | 90  | 101    | 16                  | 02C      | 0.46      | <TS |
| 1583 | A  | 90  | 103    | 7                   | 04H      | 0.86      | <TS |
| 1584 | A  | 90  | 105    | 21                  | 05C      | 0.85      | <TS |
| 1585 | A  | 90  | 107    | 13                  | 04H      | 0.91      | <TS |
| 1586 | A  | 90  | 107    | 15                  | 05C      | 0.86      | <TS |
| 1587 | A  | 90  | 109    | 12                  | 05H      | -0.85     | <TS |
| 1588 | A  | 90  | 115    | 16                  | VS6      | -0.77     | <TS |
| 1589 | A  | 90  | 115    | 12                  | VS6      | -0.22     | <TS |
| 1590 | A  | 90  | 115    | 11                  | 07C      | 0.83      | <TS |
| 1591 | A  | 90  | 115    | 10                  | 03C      | -0.9      | <TS |
| 1592 | A  | 90  | 115    | 18                  | VS2      | -0.88     | <TS |
| 1593 | A  | 90  | 115    | 9                   | VS2      | 0.92      | <TS |
| 1594 | A  | 90  | 133    | 11                  | 03C      | -0.99     | <TS |
| 1595 | A  | 90  | 135    | 13                  | 04H      | 0.92      | <TS |
| 1596 | A  | 90  | 135    | 15                  | 04C      | 0.9       | <TS |
| 1597 | A  | 90  | 137    | 16                  | 06C      | 0.83      | <TS |
| 1598 | A  | 90  | 137    | 9                   | 04C      | 0.07      | <TS |
| 1599 | A  | 90  | 143    | 21                  | 02C      | -0.88     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1600 | A  | 90  | 143    | 18                  | 02C      | 0.13      | <TS |
| 1601 | A  | 90  | 143    | 18                  | 03C      | -0.81     | <TS |
| 1602 | A  | 90  | 143    | 11                  | 03C      | 0.02      | <TS |
| 1603 | A  | 91  | 22     | 33                  | VS4      | 0.64      | <TS |
| 1604 | A  | 91  | 22     | 13                  | VS6      | -0.93     | <TS |
| 1605 | A  | 91  | 26     | 8                   | 03H      | 0.91      | <TS |
| 1606 | A  | 91  | 36     | 10                  | 06H      | -0.89     | <TS |
| 1607 | A  | 91  | 40     | 7                   | DBH      | 1.86      | <TS |
| 1608 | A  | 91  | 48     | 16                  | 07C      | 0.11      | <TS |
| 1609 | A  | 91  | 48     | 13                  | 05C      | -0.9      | <TS |
| 1610 | A  | 91  | 54     | 11                  | 03C      | -0.92     | <TS |
| 1611 | A  | 91  | 60     | 10                  | 03C      | -0.95     | <TS |
| 1612 | A  | 91  | 60     | 11                  | 02C      | -0.18     | <TS |
| 1613 | A  | 91  | 66     | 17                  | 05C      | 0.88      | <TS |
| 1614 | A  | 91  | 70     | 12                  | VS6      | 1.01      | <TS |
| 1615 | A  | 91  | 70     | 7                   | 06H      | -0.09     | <TS |
| 1616 | A  | 91  | 80     | 12                  | 07C      | 0.87      | <TS |
| 1617 | A  | 91  | 80     | 14                  | 05C      | 0.87      | <TS |
| 1618 | A  | 91  | 86     | 12                  | 05H      | 0.17      | <TS |
| 1619 | A  | 91  | 90     | 19                  | 03C      | 0.83      | <TS |
| 1620 | A  | 91  | 90     | 9                   | 04C      | 0.86      | <TS |
| 1621 | A  | 91  | 90     | 15                  | 05H      | 0.54      | <TS |
| 1622 | A  | 91  | 92     | 10                  | 05H      | 0.93      | <TS |
| 1623 | A  | 91  | 94     | 11                  | 05C      | 0.13      | <TS |
| 1624 | A  | 91  | 94     | 7                   | 06H      | 0.15      | <TS |
| 1625 | A  | 91  | 94     | 12                  | 05H      | 0.19      | <TS |
| 1626 | A  | 91  | 96     | 11                  | 02C      | 0.75      | <TS |
| 1627 | A  | 91  | 106    | 14                  | 03C      | 0.77      | <TS |
| 1628 | A  | 91  | 110    | 11                  | 04C      | -0.9      | <TS |
| 1629 | A  | 91  | 114    | 17                  | VS2      | -0.87     | <TS |
| 1630 | A  | 91  | 116    | 28                  | VS2      | -0.72     | <TS |
| 1631 | A  | 91  | 128    | 12                  | 04H      | -0.91     | <TS |
| 1632 | A  | 91  | 134    | 12                  | 04H      | -1.03     | <TS |
| 1633 | A  | 91  | 134    | 10                  | 06C      | 0.48      | <TS |
| 1634 | A  | 91  | 136    | 12                  | 04C      | 0.79      | <TS |
| 1635 | A  | 91  | 138    | 12                  | 05C      | -0.93     | <TS |
| 1636 | A  | 91  | 138    | 13                  | 04C      | 0.84      | <TS |
| 1637 | A  | 91  | 138    | 14                  | VS2      | -0.82     | <TS |
| 1638 | A  | 91  | 138    | 7                   | 04C      | -0.94     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1639 | A  | 91  | 144    | 13                  | VS4      | 0.66      | <TS |
| 1640 | A  | 91  | 144    | 10                  | 03C      | -0.85     | <TS |
| 1641 | A  | 92  | 23     | 11                  | 04H      | 0.87      | <TS |
| 1642 | A  | 92  | 23     | 19                  | VS2      | 0.55      | <TS |
| 1643 | A  | 92  | 23     | 17                  | VS2      | 0.91      | <TS |
| 1644 | A  | 92  | 23     | 24                  | VS6      | 1.09      | <TS |
| 1645 | A  | 92  | 23     | 7                   | VS6      | 0.66      | <TS |
| 1646 | A  | 92  | 25     | 12                  | VS4      | 0.93      | <TS |
| 1647 | A  | 92  | 25     | 9                   | VS4      | -0.99     | <TS |
| 1648 | A  | 92  | 29     | 12                  | 03H      | 0.87      | <TS |
| 1649 | A  | 92  | 33     | 10                  | 04H      | 0.87      | <TS |
| 1650 | A  | 92  | 35     | 14                  | 06H      | 0.97      | <TS |
| 1651 | A  | 92  | 37     | 11                  | 04H      | 0.89      | <TS |
| 1652 | A  | 92  | 51     | 11                  | 05C      | 0.07      | <TS |
| 1653 | A  | 92  | 59     | 12                  | VS4      | 0.9       | <TS |
| 1654 | A  | 92  | 59     | 11                  | VS6      | 1.1       | <TS |
| 1655 | A  | 92  | 59     | 12                  | VS4      | -0.9      | <TS |
| 1656 | A  | 92  | 59     | 7                   | VS4      | 0.22      | <TS |
| 1657 | A  | 92  | 69     | 14                  | 05C      | 0.13      | <TS |
| 1658 | A  | 92  | 69     | 12                  | 05C      | 0.88      | <TS |
| 1659 | A  | 92  | 77     | 12                  | 06C      | -0.96     | <TS |
| 1660 | A  | 92  | 77     | 16                  | 05C      | -0.81     | <TS |
| 1661 | A  | 92  | 81     | 12                  | 05H      | 0.9       | <TS |
| 1662 | A  | 92  | 81     | 13                  | 06H      | -0.8      | <TS |
| 1663 | A  | 92  | 85     | 15                  | VS6      | 0.99      | <TS |
| 1664 | A  | 92  | 87     | 13                  | 05C      | 0.84      | <TS |
| 1665 | A  | 92  | 87     | 11                  | 03H      | 0.98      | <TS |
| 1666 | A  | 92  | 89     | 17                  | 04C      | 0.86      | <TS |
| 1667 | A  | 92  | 89     | 15                  | 05C      | 0.92      | <TS |
| 1668 | A  | 92  | 89     | 15                  | 06H      | 0.88      | <TS |
| 1669 | A  | 92  | 93     | 16                  | 04H      | 0.95      | <TS |
| 1670 | A  | 92  | 93     | 12                  | 02C      | 0.92      | <TS |
| 1671 | A  | 92  | 97     | 9                   | 05C      | -0.02     | <TS |
| 1672 | A  | 92  | 101    | 15                  | VS2      | 0.94      | <TS |
| 1673 | A  | 92  | 101    | 16                  | VS2      | -0.77     | <TS |
| 1674 | A  | 92  | 105    | 11                  | 04C      | 0.88      | <TS |
| 1675 | A  | 92  | 107    | 11                  | 04H      | -0.13     | <TS |
| 1676 | A  | 92  | 109    | 12                  | 05C      | -0.92     | <TS |
| 1677 | A  | 92  | 111    | 12                  | 04H      | 0.89      | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1678 | A  | 92  | 115    | 14                  | 04C      | 0.79      | <TS |
| 1679 | A  | 92  | 117    | 14                  | VS4      | -0.81     | <TS |
| 1680 | A  | 92  | 117    | 12                  | VS4      | 0.85      | <TS |
| 1681 | A  | 92  | 125    | 11                  | 03H      | 0.85      | <TS |
| 1682 | A  | 92  | 127    | 10                  | 04H      | 0         | <TS |
| 1683 | A  | 92  | 129    | 11                  | 07H      | -0.83     | <TS |
| 1684 | A  | 92  | 131    | 14                  | 04H      | 0.93      | <TS |
| 1685 | A  | 92  | 133    | 18                  | 07H      | 0.87      | <TS |
| 1686 | A  | 92  | 133    | 16                  | 05C      | -0.87     | <TS |
| 1687 | A  | 92  | 133    | 20                  | 04C      | 0.9       | <TS |
| 1688 | A  | 92  | 133    | 14                  | 03C      | -0.92     | <TS |
| 1689 | A  | 92  | 135    | 18                  | 04C      | 0.81      | <TS |
| 1690 | A  | 92  | 137    | 11                  | 04C      | 0.85      | <TS |
| 1691 | A  | 92  | 141    | 15                  | 04C      | 0.88      | <TS |
| 1692 | A  | 92  | 141    | 14                  | 02C      | -0.11     | <TS |
| 1693 | A  | 93  | 26     | 13                  | VS4      | -0.86     | <TS |
| 1694 | A  | 93  | 26     | 11                  | VS4      | 0.86      | <TS |
| 1695 | A  | 93  | 26     | 10                  | DBC      | 0.95      | <TS |
| 1696 | A  | 93  | 52     | 18                  | 04C      | 0.42      | <TS |
| 1697 | A  | 93  | 60     | 12                  | VS6      | 1.01      | <TS |
| 1698 | A  | 93  | 60     | 15                  | VS6      | -0.98     | <TS |
| 1699 | A  | 93  | 60     | 18                  | VS2      | 1.03      | <TS |
| 1700 | A  | 93  | 60     | 16                  | VS2      | -0.87     | <TS |
| 1701 | A  | 93  | 70     | 12                  | 04H      | 0.92      | <TS |
| 1702 | A  | 93  | 70     | 14                  | 02H      | -0.83     | <TS |
| 1703 | A  | 93  | 76     | 19                  | VS4      | 0.09      | <TS |
| 1704 | A  | 93  | 76     | 17                  | VS4      | 0.76      | <TS |
| 1705 | A  | 93  | 76     | 11                  | 07C      | -0.87     | <TS |
| 1706 | A  | 93  | 82     | 9                   | VS2      | 0.92      | <TS |
| 1707 | A  | 93  | 82     | 9                   | 05C      | -0.9      | <TS |
| 1708 | A  | 93  | 84     | 9                   | 03H      | -0.78     | <TS |
| 1709 | A  | 93  | 84     | 12                  | 04H      | -0.85     | <TS |
| 1710 | A  | 93  | 88     | 14                  | 03H      | 0.04      | <TS |
| 1711 | A  | 93  | 94     | 11                  | 04C      | -0.66     | <TS |
| 1712 | A  | 93  | 94     | 10                  | 04C      | 0.84      | <TS |
| 1713 | A  | 93  | 96     | 10                  | 04C      | -0.13     | <TS |
| 1714 | A  | 93  | 100    | 13                  | VS2      | -0.7      | <TS |
| 1715 | A  | 93  | 104    | 35                  | VS4      | -0.74     | <TS |
| 1716 | A  | 93  | 104    | 13                  | DBH      | 1.67      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1717 | A  | 93  | 104    | 27                  | VS6      | 0.94      | <TS |
| 1718 | A  | 93  | 104    | 13                  | VS6      | -0.94     | <TS |
| 1719 | A  | 93  | 104    | 13                  | 02C      | -0.88     | <TS |
| 1720 | A  | 93  | 106    | 21                  | VS2      | -0.72     | <TS |
| 1721 | A  | 93  | 106    | 8                   | VS2      | 0.07      | <TS |
| 1722 | A  | 93  | 114    | 21                  | VS6      | 0.9       | <TS |
| 1723 | A  | 93  | 114    | 16                  | 03C      | -0.81     | <TS |
| 1724 | A  | 93  | 114    | 12                  | VS6      | -0.9      | <TS |
| 1725 | A  | 93  | 116    | 11                  | DBH      | 1.53      | <TS |
| 1726 | A  | 93  | 118    | 7                   | DBH      | 1.73      | <TS |
| 1727 | A  | 93  | 130    | 15                  | 03H      | -0.86     | <TS |
| 1728 | A  | 93  | 130    | 12                  | 04H      | -0.81     | <TS |
| 1729 | A  | 93  | 130    | 21                  | VS2      | -0.76     | <TS |
| 1730 | A  | 93  | 130    | 16                  | VS2      | 0.9       | <TS |
| 1731 | A  | 93  | 130    | 20                  | VS4      | -0.87     | <TS |
| 1732 | A  | 93  | 130    | 38                  | VS4      | 0.98      | <TS |
| 1733 | A  | 93  | 132    | 11                  | 04H      | -0.9      | <TS |
| 1734 | A  | 93  | 134    | 11                  | 04H      | -0.83     | <TS |
| 1735 | A  | 93  | 136    | 15                  | 03C      | 0.82      | <TS |
| 1736 | A  | 93  | 136    | 19                  | 03C      | -0.86     | <TS |
| 1737 | A  | 93  | 138    | 17                  | 05C      | 0.83      | <TS |
| 1738 | A  | 94  | 25     | 15                  | VS4      | -0.95     | <TS |
| 1739 | A  | 94  | 25     | 6                   | VS4      | 0.15      | <TS |
| 1740 | A  | 94  | 25     | 11                  | 03H      | -0.54     | <TS |
| 1741 | A  | 94  | 27     | 14                  | 03H      | 0.84      | <TS |
| 1742 | A  | 94  | 31     | 21                  | VS4      | -0.94     | <TS |
| 1743 | A  | 94  | 51     | 16                  | 04C      | 0.46      | <TS |
| 1744 | A  | 94  | 57     | 12                  | VS6      | -0.92     | <TS |
| 1745 | A  | 94  | 57     | 12                  | 05C      | 0.9       | <TS |
| 1746 | A  | 94  | 61     | 11                  | 04H      | 0.95      | <TS |
| 1747 | A  | 94  | 67     | 20                  | VS6      | -0.97     | <TS |
| 1748 | A  | 94  | 67     | 14                  | VS6      | 0.75      | <TS |
| 1749 | A  | 94  | 71     | 9                   | 05C      | -0.9      | <TS |
| 1750 | A  | 94  | 77     | 16                  | VS2      | -0.85     | <TS |
| 1751 | A  | 94  | 77     | 28                  | VS2      | 0.92      | <TS |
| 1752 | A  | 94  | 77     | 12                  | VS6      | -0.9      | <TS |
| 1753 | A  | 94  | 85     | 12                  | 02C      | 0.84      | <TS |
| 1754 | A  | 94  | 89     | 12                  | 05C      | 0.64      | <TS |
| 1755 | A  | 94  | 91     | 12                  | 05H      | -0.84     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1756 | A  | 94  | 95     | 19                  | 07C      | -0.88     | <TS |
| 1757 | A  | 94  | 101    | 20                  | 04C      | -0.94     | <TS |
| 1758 | A  | 94  | 107    | 8                   | 03H      | -0.87     | <TS |
| 1759 | A  | 94  | 109    | 14                  | 04C      | -0.9      | <TS |
| 1760 | A  | 94  | 111    | 10                  | 04H      | -0.97     | <TS |
| 1761 | A  | 94  | 129    | 10                  | 03H      | -0.88     | <TS |
| 1762 | A  | 94  | 135    | 14                  | 04C      | 0.85      | <TS |
| 1763 | A  | 94  | 139    | 12                  | 03C      | -0.88     | <TS |
| 1764 | A  | 94  | 141    | 16                  | 03C      | 0.75      | <TS |
| 1765 | A  | 95  | 24     | 28                  | VS4      | -1.02     | <TS |
| 1766 | A  | 95  | 24     | 18                  | VS4      | 0.31      | <TS |
| 1767 | A  | 95  | 26     | 8                   | VS4      | 0.91      | <TS |
| 1768 | A  | 95  | 30     | 34                  | VS4      | -0.93     | <TS |
| 1769 | A  | 95  | 30     | 29                  | VS4      | 0.86      | <TS |
| 1770 | A  | 95  | 30     | 10                  | VS6      | -0.07     | <TS |
| 1771 | A  | 95  | 32     | 9                   | 04H      | -0.11     | <TS |
| 1772 | A  | 95  | 48     | 8                   | 07C      | 0.13      | <TS |
| 1773 | A  | 95  | 48     | 19                  | 06C      | 0.92      | <TS |
| 1774 | A  | 95  | 48     | 11                  | 07H      | 0.9       | <TS |
| 1775 | A  | 95  | 48     | 7                   | 06H      | 0.92      | <TS |
| 1776 | A  | 95  | 48     | 8                   | 07H      | -0.86     | <TS |
| 1777 | A  | 95  | 48     | 8                   | 06C      | 0.11      | <TS |
| 1778 | A  | 95  | 54     | 11                  | 05C      | 0.09      | <TS |
| 1779 | A  | 95  | 56     | 13                  | 06C      | 0.86      | <TS |
| 1780 | A  | 95  | 58     | 9                   | 04H      | 1.16      | <TS |
| 1781 | A  | 95  | 58     | 11                  | VS2      | -0.92     | <TS |
| 1782 | A  | 95  | 58     | 8                   | 05C      | -0.86     | <TS |
| 1783 | A  | 95  | 60     | 12                  | 06H      | 0.93      | <TS |
| 1784 | A  | 95  | 72     | 14                  | 07C      | 0.11      | <TS |
| 1785 | A  | 95  | 72     | 11                  | 07C      | 0.88      | <TS |
| 1786 | A  | 95  | 74     | 12                  | 06C      | -0.91     | <TS |
| 1787 | A  | 95  | 84     | 19                  | 05C      | 0.88      | <TS |
| 1788 | A  | 95  | 94     | 10                  | DBC      | 1.64      | <TS |
| 1789 | A  | 95  | 94     | 13                  | 04C      | 0         | <TS |
| 1790 | A  | 95  | 104    | 13                  | 02C      | 0.09      | <TS |
| 1791 | A  | 95  | 104    | 10                  | 04C      | 0.11      | <TS |
| 1792 | A  | 95  | 110    | 12                  | 04C      | 0.88      | <TS |
| 1793 | A  | 95  | 110    | 14                  | 02C      | -0.94     | <TS |
| 1794 | A  | 95  | 110    | 9                   | 04H      | 0.91      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1795 | A  | 95  | 118    | 13                  | VS2      | -0.09     | <TS |
| 1796 | A  | 95  | 124    | 19                  | VS2      | -0.83     | <TS |
| 1797 | A  | 95  | 124    | 23                  | VS2      | 0.92      | <TS |
| 1798 | A  | 95  | 126    | 16                  | VS2      | 0.98      | <TS |
| 1799 | A  | 95  | 130    | 11                  | 04H      | 0.99      | <TS |
| 1800 | A  | 95  | 130    | 11                  | VS2      | 0.02      | <TS |
| 1801 | A  | 95  | 130    | 20                  | VS2      | 0.77      | <TS |
| 1802 | A  | 95  | 130    | 6                   | VS2      | -0.59     | <TS |
| 1803 | A  | 95  | 132    | 11                  | VS4      | 0.98      | <TS |
| 1804 | A  | 95  | 132    | 16                  | 07C      | -0.92     | <TS |
| 1805 | A  | 95  | 132    | 13                  | 06C      | -0.85     | <TS |
| 1806 | A  | 95  | 132    | 13                  | 03C      | -0.86     | <TS |
| 1807 | A  | 95  | 132    | 19                  | VS2      | 0.96      | <TS |
| 1808 | A  | 95  | 134    | 24                  | 04C      | -0.94     | <TS |
| 1809 | A  | 95  | 134    | 13                  | 03C      | -0.98     | <TS |
| 1810 | A  | 95  | 136    | 18                  | VS2      | -0.89     | <TS |
| 1811 | A  | 95  | 136    | 23                  | VS2      | 0.89      | <TS |
| 1812 | A  | 95  | 140    | 21                  | 04C      | 0.88      | <TS |
| 1813 | A  | 95  | 142    | 15                  | 02C      | 0.11      | <TS |
| 1814 | A  | 95  | 142    | 16                  | 02C      | 1.03      | <TS |
| 1815 | A  | 96  | 25     | 16                  | 02H      | 0.8       | <TS |
| 1816 | A  | 96  | 25     | 12                  | 04H      | 0.83      | <TS |
| 1817 | A  | 96  | 25     | 35                  | VS4      | 0.77      | <TS |
| 1818 | A  | 96  | 27     | 11                  | VS4      | 1.1       | <TS |
| 1819 | A  | 96  | 31     | 14                  | VS6      | -0.69     | <TS |
| 1820 | A  | 96  | 31     | 10                  | VS4      | 0.82      | <TS |
| 1821 | A  | 96  | 33     | 9                   | VS4      | -0.92     | <TS |
| 1822 | A  | 96  | 33     | 10                  | 06H      | -0.96     | <TS |
| 1823 | A  | 96  | 37     | 16                  | VS6      | -0.73     | <TS |
| 1824 | A  | 96  | 39     | 10                  | VS6      | 0.2       | <TS |
| 1825 | A  | 96  | 41     | 14                  | 04C      | 0.86      | <TS |
| 1826 | A  | 96  | 41     | 16                  | VS6      | 0.95      | <TS |
| 1827 | A  | 96  | 41     | 11                  | VS6      | -0.26     | <TS |
| 1828 | A  | 96  | 59     | 12                  | 07C      | -0.72     | <TS |
| 1829 | A  | 96  | 59     | 8                   | 06C      | -0.92     | <TS |
| 1830 | A  | 96  | 59     | 16                  | 04C      | -0.94     | <TS |
| 1831 | A  | 96  | 61     | 20                  | 06C      | 0.09      | <TS |
| 1832 | A  | 96  | 61     | 14                  | 06H      | 0.9       | <TS |
| 1833 | A  | 96  | 61     | 12                  | 04H      | 0.09      | <TS |



**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1834 | A  | 96  | 63     | 23                  | 04C      | 0.83      | <TS |
| 1835 | A  | 96  | 65     | 13                  | 05H      | -0.92     | <TS |
| 1836 | A  | 96  | 69     | 11                  | 04H      | 0.92      | <TS |
| 1837 | A  | 96  | 73     | 7                   | 05H      | 0.91      | <TS |
| 1838 | A  | 96  | 87     | 13                  | 05H      | 0.91      | <TS |
| 1839 | A  | 96  | 87     | 17                  | 05C      | 0.86      | <TS |
| 1840 | A  | 96  | 89     | 12                  | 05H      | -0.89     | <TS |
| 1841 | A  | 96  | 89     | 10                  | 04H      | 0.89      | <TS |
| 1842 | A  | 96  | 91     | 7                   | 04H      | -0.81     | <TS |
| 1843 | A  | 96  | 91     | 10                  | 06H      | -0.85     | <TS |
| 1844 | A  | 96  | 91     | 10                  | 04H      | -0.13     | <TS |
| 1845 | A  | 96  | 93     | 10                  | 01C      | 0.09      | <TS |
| 1846 | A  | 96  | 97     | 9                   | 06C      | 0.87      | <TS |
| 1847 | A  | 96  | 97     | 10                  | 06C      | -0.85     | <TS |
| 1848 | A  | 96  | 99     | 11                  | 04H      | -0.13     | <TS |
| 1849 | A  | 96  | 99     | 10                  | 04H      | -0.92     | <TS |
| 1850 | A  | 96  | 103    | 13                  | 05C      | 0.9       | <TS |
| 1851 | A  | 96  | 105    | 8                   | 07H      | 0.97      | <TS |
| 1852 | A  | 96  | 105    | 17                  | VS6      | -0.75     | <TS |
| 1853 | A  | 96  | 109    | 18                  | 04C      | 0.88      | <TS |
| 1854 | A  | 96  | 111    | 20                  | 05C      | 0.81      | <TS |
| 1855 | A  | 96  | 111    | 17                  | 04C      | 0.81      | <TS |
| 1856 | A  | 96  | 111    | 12                  | 04C      | 0.07      | <TS |
| 1857 | A  | 96  | 113    | 8                   | VS6      | -0.77     | <TS |
| 1858 | A  | 96  | 117    | 13                  | VS6      | -0.72     | <TS |
| 1859 | A  | 96  | 117    | 9                   | VS6      | -0.22     | <TS |
| 1860 | A  | 96  | 119    | 11                  | 05H      | 0.87      | <TS |
| 1861 | A  | 96  | 121    | 20                  | VS6      | 1.07      | <TS |
| 1862 | A  | 96  | 131    | 9                   | 05C      | 0.85      | <TS |
| 1863 | A  | 96  | 131    | 20                  | 04C      | -1.08     | <TS |
| 1864 | A  | 96  | 131    | 10                  | 03C      | 0.79      | <TS |
| 1865 | A  | 96  | 141    | 15                  | VS4      | 1.02      | <TS |
| 1866 | A  | 96  | 141    | 14                  | VS4      | -0.9      | <TS |
| 1867 | A  | 97  | 26     | 17                  | VS4      | 0.55      | <TS |
| 1868 | A  | 97  | 26     | 15                  | VS4      | -0.84     | <TS |
| 1869 | A  | 97  | 28     | 10                  | VS4      | -0.6      | <TS |
| 1870 | A  | 97  | 28     | 12                  | VS4      | 0.93      | <TS |
| 1871 | A  | 97  | 46     | 13                  | VS6      | -0.77     | <TS |
| 1872 | A  | 97  | 46     | 13                  | VS6      | -0.22     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1873 | A  | 97  | 46     | 9                | VS4      | 0.9       | <TS |
| 1874 | A  | 97  | 48     | 9                | DBC      | 2         | <TS |
| 1875 | A  | 97  | 48     | 16               | VS6      | 0.81      | <TS |
| 1876 | A  | 97  | 48     | 14               | VS6      | -0.86     | <TS |
| 1877 | A  | 97  | 48     | 16               | VS4      | 0.92      | <TS |
| 1878 | A  | 97  | 48     | 14               | VS4      | -0.97     | <TS |
| 1879 | A  | 97  | 50     | 27               | VS2      | -0.9      | <TS |
| 1880 | A  | 97  | 50     | 19               | VS4      | -0.86     | <TS |
| 1881 | A  | 97  | 50     | 19               | VS4      | 0.86      | <TS |
| 1882 | A  | 97  | 50     | 19               | VS6      | 0.77      | <TS |
| 1883 | A  | 97  | 50     | 12               | VS2      | 0.9       | <TS |
| 1884 | A  | 97  | 52     | 18               | VS2      | 0.88      | <TS |
| 1885 | A  | 97  | 52     | 9                | VS2      | -0.84     | <TS |
| 1886 | A  | 97  | 52     | 28               | VS4      | -0.81     | <TS |
| 1887 | A  | 97  | 52     | 25               | VS6      | 0.79      | <TS |
| 1888 | A  | 97  | 54     | 13               | 05C      | 0.9       | <TS |
| 1889 | A  | 97  | 54     | 16               | 05C      | -0.51     | <TS |
| 1890 | A  | 97  | 58     | 17               | 07C      | 0.94      | <TS |
| 1891 | A  | 97  | 62     | 18               | 05C      | -0.96     | <TS |
| 1892 | A  | 97  | 62     | 20               | 06C      | 0.81      | <TS |
| 1893 | A  | 97  | 64     | 19               | 06C      | -0.88     | <TS |
| 1894 | A  | 97  | 64     | 10               | 05H      | 0.99      | <TS |
| 1895 | A  | 97  | 68     | 10               | 05H      | 0.95      | <TS |
| 1896 | A  | 97  | 70     | 12               | 07H      | 0.88      | <TS |
| 1897 | A  | 97  | 80     | 10               | 01C      | 0.83      | <TS |
| 1898 | A  | 97  | 82     | 13               | 05C      | 0.88      | <TS |
| 1899 | A  | 97  | 90     | 15               | VS2      | 0.79      | <TS |
| 1900 | A  | 97  | 90     | 10               | VS4      | 0.85      | <TS |
| 1901 | A  | 97  | 90     | 13               | VS2      | 0.02      | <TS |
| 1902 | A  | 97  | 90     | 14               | 05C      | 0.75      | <TS |
| 1903 | A  | 97  | 90     | 22               | VS6      | -0.73     | <TS |
| 1904 | A  | 97  | 90     | 8                | VS4      | -0.86     | <TS |
| 1905 | A  | 97  | 90     | 12               | VS4      | -0.11     | <TS |
| 1906 | A  | 97  | 96     | 9                | VS2      | 0.77      | <TS |
| 1907 | A  | 97  | 96     | 11               | VS2      | 0.18      | <TS |
| 1908 | A  | 97  | 96     | 12               | 04C      | -0.86     | <TS |
| 1909 | A  | 97  | 100    | 11               | VS2      | 0.15      | <TS |
| 1910 | A  | 97  | 106    | 25               | VS4      | -0.92     | <TS |
| 1911 | A  | 97  | 106    | 18               | VS4      | 0.9       | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1912 | A  | 97  | 112    | 12               | VS2      | 0.88      | <TS |
| 1913 | A  | 97  | 112    | 14               | VS4      | -0.88     | <TS |
| 1914 | A  | 97  | 112    | 13               | VS4      | 0.95      | <TS |
| 1915 | A  | 97  | 112    | 10               | 05C      | 0.9       | <TS |
| 1916 | A  | 97  | 114    | 17               | VS4      | -0.9      | <TS |
| 1917 | A  | 97  | 116    | 17               | VS4      | -0.89     | <TS |
| 1918 | A  | 97  | 116    | 18               | 05C      | 0.83      | <TS |
| 1919 | A  | 97  | 118    | 23               | VS4      | 0.66      | <TS |
| 1920 | A  | 97  | 120    | 15               | VS2      | -0.9      | <TS |
| 1921 | A  | 97  | 120    | 29               | VS2      | 0.94      | <TS |
| 1922 | A  | 97  | 120    | 13               | VS4      | 0.7       | <TS |
| 1923 | A  | 97  | 124    | 13               | VS2      | -0.87     | <TS |
| 1924 | A  | 97  | 124    | 11               | VS2      | 0.9       | <TS |
| 1925 | A  | 97  | 126    | 15               | VS4      | 0.13      | <TS |
| 1926 | A  | 97  | 132    | 11               | DBH      | 1.88      | <TS |
| 1927 | A  | 97  | 132    | 16               | VS4      | 0.85      | <TS |
| 1928 | A  | 97  | 132    | 14               | 04C      | -0.94     | <TS |
| 1929 | A  | 97  | 134    | 21               | VS4      | 0.92      | <TS |
| 1930 | A  | 97  | 134    | 12               | VS4      | -0.88     | <TS |
| 1931 | A  | 97  | 136    | 14               | 04C      | -0.97     | <TS |
| 1932 | A  | 97  | 138    | 18               | 02C      | 0.86      | <TS |
| 1933 | A  | 97  | 140    | 13               | 03C      | -0.95     | <TS |
| 1934 | A  | 98  | 27     | 20               | VS2      | 0.69      | <TS |
| 1935 | A  | 98  | 27     | 10               | VS6      | -0.82     | <TS |
| 1936 | A  | 98  | 27     | 17               | VS6      | 0.89      | <TS |
| 1937 | A  | 98  | 35     | 12               | 05H      | 0.83      | <TS |
| 1938 | A  | 98  | 39     | 11               | 05H      | 0.85      | <TS |
| 1939 | A  | 98  | 45     | 9                | 05H      | -0.22     | <TS |
| 1940 | A  | 98  | 49     | 11               | 07C      | 0.86      | <TS |
| 1941 | A  | 98  | 51     | 17               | 05C      | 0.73      | <TS |
| 1942 | A  | 98  | 55     | 18               | 05H      | 0.93      | <TS |
| 1943 | A  | 98  | 55     | 13               | DBC      | -1.75     | <TS |
| 1944 | A  | 98  | 59     | 13               | 05C      | -0.95     | <TS |
| 1945 | A  | 98  | 63     | 13               | 05C      | -0.94     | <TS |
| 1946 | A  | 98  | 65     | 20               | VS2      | -0.75     | <TS |
| 1947 | A  | 98  | 71     | 8                | 07C      | 0.09      | <TS |
| 1948 | A  | 98  | 75     | 17               | 06C      | 0.88      | <TS |
| 1949 | A  | 98  | 85     | 10               | VS6      | -0.86     | <TS |
| 1950 | A  | 98  | 85     | 10               | DBC      | 1.63      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1951 | A  | 98  | 85     | 15               | 06C      | 0.79      | <TS |
| 1952 | A  | 98  | 87     | 24               | 06C      | 0.85      | <TS |
| 1953 | A  | 98  | 87     | 11               | 06C      | -0.9      | <TS |
| 1954 | A  | 98  | 95     | 12               | 03C      | 0.83      | <TS |
| 1955 | A  | 98  | 105    | 22               | 04C      | 0.83      | <TS |
| 1956 | A  | 98  | 105    | 18               | 05C      | -0.96     | <TS |
| 1957 | A  | 98  | 109    | 13               | 04H      | 0.91      | <TS |
| 1958 | A  | 98  | 109    | 18               | 05H      | -1.02     | <TS |
| 1959 | A  | 98  | 109    | 15               | 07H      | -0.9      | <TS |
| 1960 | A  | 98  | 109    | 16               | 05C      | 0.86      | <TS |
| 1961 | A  | 98  | 111    | 15               | 07H      | 0.13      | <TS |
| 1962 | A  | 98  | 111    | 11               | VS2      | -0.18     | <TS |
| 1963 | A  | 98  | 111    | 16               | VS2      | 0.61      | <TS |
| 1964 | A  | 98  | 113    | 12               | VS2      | 0.61      | <TS |
| 1965 | A  | 98  | 119    | 12               | VS6      | 0.7       | <TS |
| 1966 | A  | 98  | 125    | 14               | VS4      | 0.81      | <TS |
| 1967 | A  | 98  | 127    | 20               | 07H      | 0.81      | <TS |
| 1968 | A  | 98  | 133    | 16               | 04C      | 0.87      | <TS |
| 1969 | A  | 98  | 135    | 12               | 03C      | 0.11      | <TS |
| 1970 | A  | 98  | 139    | 16               | 02C      | -0.22     | <TS |
| 1971 | A  | 99  | 26     | 17               | VS4      | -0.84     | <TS |
| 1972 | A  | 99  | 26     | 18               | VS4      | -0.51     | <TS |
| 1973 | A  | 99  | 28     | 11               | VS4      | 0.86      | <TS |
| 1974 | A  | 99  | 28     | 10               | VS4      | -0.53     | <TS |
| 1975 | A  | 99  | 30     | 11               | VS4      | -0.9      | <TS |
| 1976 | A  | 99  | 30     | 9                | VS4      | 0.75      | <TS |
| 1977 | A  | 99  | 36     | 13               | VS4      | 0.86      | <TS |
| 1978 | A  | 99  | 60     | 12               | 03H      | -0.84     | <TS |
| 1979 | A  | 99  | 70     | 9                | 06H      | -0.17     | <TS |
| 1980 | A  | 99  | 84     | 16               | VS6      | -0.92     | <TS |
| 1981 | A  | 99  | 84     | 10               | VS6      | 0.92      | <TS |
| 1982 | A  | 99  | 94     | 16               | 03C      | 0.88      | <TS |
| 1983 | A  | 99  | 96     | 11               | 07C      | 0.09      | <TS |
| 1984 | A  | 99  | 104    | 16               | 02C      | -0.92     | <TS |
| 1985 | A  | 99  | 104    | 11               | 02C      | 0.13      | <TS |
| 1986 | A  | 99  | 104    | 11               | 05C      | -0.9      | <TS |
| 1987 | A  | 99  | 106    | 13               | 02C      | -0.94     | <TS |
| 1988 | A  | 99  | 112    | 18               | 04C      | 0.9       | <TS |
| 1989 | A  | 99  | 116    | 13               | VS4      | -0.9      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1990 | A  | 99  | 118    | 9                   | 04H      | 0.15      | <TS |
| 1991 | A  | 99  | 136    | 12                  | VS4      | -0.9      | <TS |
| 1992 | A  | 99  | 136    | 8                   | VS4      | 0.72      | <TS |
| 1993 | A  | 99  | 138    | 13                  | 03H      | 0.86      | <TS |
| 1994 | A  | 99  | 138    | 16                  | VS4      | 0.09      | <TS |
| 1995 | A  | 99  | 138    | 19                  | VS4      | 0.76      | <TS |
| 1996 | A  | 99  | 138    | 14                  | 02C      | 0.07      | <TS |
| 1997 | A  | 99  | 138    | 15                  | 02C      | -0.96     | <TS |
| 1998 | A  | 99  | 138    | 17                  | 03C      | -0.44     | <TS |
| 1999 | A  | 99  | 140    | 28                  | VS4      | -0.83     | <TS |
| 2000 | A  | 99  | 140    | 17                  | 03C      | -0.15     | <TS |
| 2001 | A  | 99  | 140    | 16                  | 03C      | -0.97     | <TS |
| 2002 | A  | 100 | 27     | 23                  | VS4      | -0.88     | <TS |
| 2003 | A  | 100 | 27     | 14                  | VS4      | -0.2      | <TS |
| 2004 | A  | 100 | 27     | 12                  | VS4      | 0.99      | <TS |
| 2005 | A  | 100 | 29     | 12                  | 04H      | 0.87      | <TS |
| 2006 | A  | 100 | 29     | 14                  | 05H      | 0.85      | <TS |
| 2007 | A  | 100 | 29     | 15                  | 06H      | 0.91      | <TS |
| 2008 | A  | 100 | 29     | 11                  | VS2      | -0.86     | <TS |
| 2009 | A  | 100 | 29     | 19                  | VS2      | 0.91      | <TS |
| 2010 | A  | 100 | 29     | 15                  | VS4      | 0.93      | <TS |
| 2011 | A  | 100 | 29     | 11                  | VS4      | 0.07      | <TS |
| 2012 | A  | 100 | 31     | 14                  | VS2      | -0.89     | <TS |
| 2013 | A  | 100 | 31     | 13                  | 06H      | -0.09     | <TS |
| 2014 | A  | 100 | 31     | 10                  | 06H      | -0.89     | <TS |
| 2015 | A  | 100 | 31     | 12                  | 04H      | 0.84      | <TS |
| 2016 | A  | 100 | 33     | 10                  | VS2      | -0.86     | <TS |
| 2017 | A  | 100 | 35     | 12                  | 03H      | -0.8      | <TS |
| 2018 | A  | 100 | 35     | 8                   | 05C      | 0.15      | <TS |
| 2019 | A  | 100 | 41     | 12                  | 06C      | 0.75      | <TS |
| 2020 | A  | 100 | 49     | 12                  | 05C      | 0.88      | <TS |
| 2021 | A  | 100 | 51     | 9                   | 06H      | -0.06     | <TS |
| 2022 | A  | 100 | 61     | 12                  | 03H      | -0.86     | <TS |
| 2023 | A  | 100 | 65     | 11                  | 06H      | -0.91     | <TS |
| 2024 | A  | 100 | 67     | 28                  | VS6      | -0.95     | <TS |
| 2025 | A  | 100 | 75     | 10                  | 06C      | 0.9       | <TS |
| 2026 | A  | 100 | 87     | 10                  | 05C      | 0.86      | <TS |
| 2027 | A  | 100 | 87     | 10                  | 04H      | -0.74     | <TS |
| 2028 | A  | 100 | 89     | 14                  | 03C      | 0.85      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2029 | A  | 100 | 89     | 10                  | 04C      | -0.94     | <TS |
| 2030 | A  | 100 | 89     | 17                  | VS2      | -0.79     | <TS |
| 2031 | A  | 100 | 99     | 14                  | 05C      | 0.87      | <TS |
| 2032 | A  | 100 | 103    | 14                  | 05C      | -0.97     | <TS |
| 2033 | A  | 100 | 103    | 18                  | 02C      | 0.88      | <TS |
| 2034 | A  | 100 | 107    | 21                  | VS4      | -0.9      | <TS |
| 2035 | A  | 100 | 107    | 12                  | 04C      | 0.9       | <TS |
| 2036 | A  | 100 | 113    | 15                  | DBH      | 1.92      | <TS |
| 2037 | A  | 100 | 115    | 17                  | 05H      | -0.87     | <TS |
| 2038 | A  | 100 | 115    | 12                  | 03C      | 0.83      | <TS |
| 2039 | A  | 100 | 119    | 23                  | VS2      | -0.79     | <TS |
| 2040 | A  | 100 | 119    | 25                  | VS2      | 0         | <TS |
| 2041 | A  | 100 | 119    | 14                  | VS4      | -0.9      | <TS |
| 2042 | A  | 100 | 119    | 15                  | VS6      | 0.94      | <TS |
| 2043 | A  | 100 | 119    | 10                  | VS2      | 0.75      | <TS |
| 2044 | A  | 100 | 131    | 10                  | 05C      | 0.83      | <TS |
| 2045 | A  | 100 | 133    | 14                  | DBH      | 1.99      | <TS |
| 2046 | A  | 100 | 137    | 13                  | VS4      | -0.9      | <TS |
| 2047 | A  | 100 | 137    | 12                  | VS4      | 0.83      | <TS |
| 2048 | A  | 100 | 137    | 18                  | 05C      | -0.92     | <TS |
| 2049 | A  | 100 | 137    | 13                  | 04C      | 0.83      | <TS |
| 2050 | A  | 100 | 137    | 34                  | 03C      | -0.6      | <TS |
| 2051 | A  | 100 | 139    | 19                  | VS4      | -0.9      | <TS |
| 2052 | A  | 100 | 139    | 15                  | 03C      | -0.13     | <TS |
| 2053 | A  | 101 | 28     | 10                  | 03H      | 0.93      | <TS |
| 2054 | A  | 101 | 28     | 17                  | VS4      | -0.83     | <TS |
| 2055 | A  | 101 | 28     | 20                  | VS4      | 0.7       | <TS |
| 2056 | A  | 101 | 30     | 17                  | 04H      | -0.17     | <TS |
| 2057 | A  | 101 | 30     | 13                  | VS4      | -0.92     | <TS |
| 2058 | A  | 101 | 30     | 10                  | VS4      | 0.73      | <TS |
| 2059 | A  | 101 | 36     | 10                  | 03H      | 0.86      | <TS |
| 2060 | A  | 101 | 40     | 9                   | 05H      | 0.11      | <TS |
| 2061 | A  | 101 | 44     | 13                  | VS2      | 0.81      | <TS |
| 2062 | A  | 101 | 48     | 14                  | DBC      | 1.78      | <TS |
| 2063 | A  | 101 | 56     | 13                  | 06C      | -0.99     | <TS |
| 2064 | A  | 101 | 68     | 12                  | 06H      | 0.83      | <TS |
| 2065 | A  | 101 | 70     | 12                  | 07C      | -0.22     | <TS |
| 2066 | A  | 101 | 70     | 14                  | 05H      | 0.87      | <TS |
| 2067 | A  | 101 | 78     | 8                   | 07H      | -0.83     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2068 | A  | 101 | 78     | 7                   | 07H      | 0.2       | <TS |
| 2069 | A  | 101 | 86     | 10                  | 07C      | 0.77      | <TS |
| 2070 | A  | 101 | 102    | 12                  | 04C      | 0.09      | <TS |
| 2071 | A  | 101 | 104    | 9                   | 05C      | -0.11     | <TS |
| 2072 | A  | 101 | 106    | 13                  | 04C      | 0.86      | <TS |
| 2073 | A  | 101 | 108    | 12                  | VS2      | 0.77      | <TS |
| 2074 | A  | 101 | 110    | 8                   | VS2      | 0.18      | <TS |
| 2075 | A  | 101 | 110    | 13                  | VS2      | 0.79      | <TS |
| 2076 | A  | 101 | 112    | 13                  | 06H      | 0.86      | <TS |
| 2077 | A  | 101 | 114    | 10                  | VS2      | -0.92     | <TS |
| 2078 | A  | 101 | 114    | 14                  | 07C      | -0.9      | <TS |
| 2079 | A  | 101 | 114    | 14                  | 03C      | -0.83     | <TS |
| 2080 | A  | 101 | 118    | 15                  | DBH      | 1.64      | <TS |
| 2081 | A  | 101 | 120    | 11                  | 03C      | 0.87      | <TS |
| 2082 | A  | 101 | 124    | 16                  | 07C      | 0.85      | <TS |
| 2083 | A  | 101 | 128    | 13                  | 04H      | -0.9      | <TS |
| 2084 | A  | 101 | 132    | 10                  | 03C      | 0.88      | <TS |
| 2085 | A  | 101 | 136    | 13                  | 03C      | -0.87     | <TS |
| 2086 | A  | 101 | 136    | 14                  | 02C      | 0         | <TS |
| 2087 | A  | 101 | 138    | 20                  | VS4      | 0.85      | <TS |
| 2088 | A  | 101 | 138    | 9                   | 07C      | 0.79      | <TS |
| 2089 | A  | 102 | 29     | 20                  | VS4      | -0.95     | <TS |
| 2090 | A  | 102 | 29     | 12                  | VS4      | -0.11     | <TS |
| 2091 | A  | 102 | 29     | 13                  | 04C      | -0.9      | <TS |
| 2092 | A  | 102 | 31     | 8                   | 02C      | 0.86      | <TS |
| 2093 | A  | 102 | 31     | 10                  | 07C      | 0.75      | <TS |
| 2094 | A  | 102 | 31     | 9                   | 03H      | 0.88      | <TS |
| 2095 | A  | 102 | 49     | 9                   | 06H      | 0.88      | <TS |
| 2096 | A  | 102 | 55     | 12                  | 03C      | -0.9      | <TS |
| 2097 | A  | 102 | 67     | 10                  | 07C      | 0.04      | <TS |
| 2098 | A  | 102 | 67     | 13                  | 07H      | 0.9       | <TS |
| 2099 | A  | 102 | 73     | 13                  | 07C      | -0.9      | <TS |
| 2100 | A  | 102 | 75     | 11                  | VS2      | -0.94     | <TS |
| 2101 | A  | 102 | 83     | 10                  | 01C      | 0.81      | <TS |
| 2102 | A  | 102 | 85     | 8                   | 05C      | 0.77      | <TS |
| 2103 | A  | 102 | 89     | 8                   | 03H      | 0.91      | <TS |
| 2104 | A  | 102 | 89     | 17                  | 04C      | 0.81      | <TS |
| 2105 | A  | 102 | 91     | 11                  | 04C      | -0.88     | <TS |
| 2106 | A  | 102 | 95     | 14                  | 02C      | -0.85     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2107 | A  | 102 | 95     | 14               | 05C      | -0.15     | <TS |
| 2108 | A  | 102 | 105    | 9                | 02C      | 0.09      | <TS |
| 2109 | A  | 102 | 105    | 8                | 03C      | 0.07      | <TS |
| 2110 | A  | 102 | 105    | 13               | 03C      | -0.9      | <TS |
| 2111 | A  | 102 | 105    | 16               | 05C      | 0.81      | <TS |
| 2112 | A  | 102 | 107    | 12               | VS2      | 0.66      | <TS |
| 2113 | A  | 102 | 113    | 12               | 05C      | 0.83      | <TS |
| 2114 | A  | 102 | 115    | 14               | VS2      | -0.81     | <TS |
| 2115 | A  | 102 | 115    | 20               | VS2      | -0.07     | <TS |
| 2116 | A  | 102 | 117    | 24               | 03H      | 0.88      | <TS |
| 2117 | A  | 102 | 121    | 25               | VS4      | -0.92     | <TS |
| 2118 | A  | 102 | 133    | 13               | 03C      | -0.93     | <TS |
| 2119 | A  | 102 | 135    | 15               | 04C      | 0.81      | <TS |
| 2120 | A  | 102 | 135    | 15               | 03C      | -0.2      | <TS |
| 2121 | A  | 102 | 135    | 7                | 02C      | 0.74      | <TS |
| 2122 | A  | 102 | 137    | 14               | 04C      | -0.94     | <TS |
| 2123 | A  | 103 | 30     | 11               | 05H      | -0.89     | <TS |
| 2124 | A  | 103 | 30     | 10               | 07H      | -0.93     | <TS |
| 2125 | A  | 103 | 30     | 17               | VS4      | 0.62      | <TS |
| 2126 | A  | 103 | 30     | 7                | 05C      | 0.84      | <TS |
| 2127 | A  | 103 | 30     | 8                | 06H      | -1.03     | <TS |
| 2128 | A  | 103 | 30     | 10               | VS4      | -0.11     | <TS |
| 2129 | A  | 103 | 32     | 12               | 02C      | -0.18     | <TS |
| 2130 | A  | 103 | 32     | 9                | 03C      | 0.07      | <TS |
| 2131 | A  | 103 | 32     | 18               | VS4      | -0.91     | <TS |
| 2132 | A  | 103 | 32     | 7                | VS4      | 0.58      | <TS |
| 2133 | A  | 103 | 36     | 7                | VS2      | -0.91     | <TS |
| 2134 | A  | 103 | 36     | 9                | VS2      | 0.95      | <TS |
| 2135 | A  | 103 | 36     | 10               | 05C      | -0.91     | <TS |
| 2136 | A  | 103 | 54     | 13               | 05H      | 0.95      | <TS |
| 2137 | A  | 103 | 54     | 10               | 04H      | -0.97     | <TS |
| 2138 | A  | 103 | 82     | 15               | 06H      | 0.92      | <TS |
| 2139 | A  | 103 | 82     | 8                | 06H      | -0.11     | <TS |
| 2140 | A  | 103 | 82     | 17               | 05H      | -0.06     | <TS |
| 2141 | A  | 103 | 82     | 11               | 05H      | -0.85     | <TS |
| 2142 | A  | 103 | 84     | 10               | 07H      | 0.92      | <TS |
| 2143 | A  | 103 | 86     | 19               | VS2      | 0.15      | <TS |
| 2144 | A  | 103 | 86     | 15               | VS2      | 0.66      | <TS |
| 2145 | A  | 103 | 92     | 9                | 04C      | -0.88     | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2146 | A  | 103 | 92     | 11               | 04C      | 0.85      | <TS |
| 2147 | A  | 103 | 92     | 16               | 05C      | 0.85      | <TS |
| 2148 | A  | 103 | 96     | 13               | 05C      | 0.9       | <TS |
| 2149 | A  | 103 | 100    | 9                | 05C      | -0.86     | <TS |
| 2150 | A  | 103 | 102    | 11               | 03C      | -0.15     | <TS |
| 2151 | A  | 103 | 108    | 17               | 07C      | -0.15     | <TS |
| 2152 | A  | 103 | 118    | 13               | 04C      | -0.99     | <TS |
| 2153 | A  | 103 | 122    | 10               | 07C      | 0.9       | <TS |
| 2154 | A  | 103 | 122    | 18               | DBC      | 1.69      | <TS |
| 2155 | A  | 103 | 134    | 12               | 04C      | 0.92      | <TS |
| 2156 | A  | 103 | 134    | 14               | 04C      | 0.07      | <TS |
| 2157 | A  | 103 | 136    | 13               | 02C      | 0.87      | <TS |
| 2158 | A  | 104 | 31     | 20               | VS4      | -0.93     | <TS |
| 2159 | A  | 104 | 31     | 21               | VS4      | 0.84      | <TS |
| 2160 | A  | 104 | 33     | 12               | 03C      | -0.86     | <TS |
| 2161 | A  | 104 | 33     | 11               | 04C      | -0.83     | <TS |
| 2162 | A  | 104 | 61     | 14               | 06C      | 0.9       | <TS |
| 2163 | A  | 104 | 63     | 12               | 05C      | -0.9      | <TS |
| 2164 | A  | 104 | 63     | 14               | 07C      | -0.92     | <TS |
| 2165 | A  | 104 | 69     | 11               | 07H      | -0.94     | <TS |
| 2166 | A  | 104 | 71     | 12               | DBH      | 1.99      | <TS |
| 2167 | A  | 104 | 77     | 11               | 06C      | 0.88      | <TS |
| 2168 | A  | 104 | 85     | 13               | VS2      | -0.88     | <TS |
| 2169 | A  | 104 | 85     | 18               | 04C      | -0.94     | <TS |
| 2170 | A  | 104 | 85     | 12               | 04C      | 0.79      | <TS |
| 2171 | A  | 104 | 87     | 11               | 04C      | -0.2      | <TS |
| 2172 | A  | 104 | 87     | 22               | 04C      | -0.9      | <TS |
| 2173 | A  | 104 | 89     | 15               | 02C      | -0.9      | <TS |
| 2174 | A  | 104 | 93     | 12               | 06H      | 0.9       | <TS |
| 2175 | A  | 104 | 95     | 17               | VS2      | -0.77     | <TS |
| 2176 | A  | 104 | 97     | 10               | 03C      | 0         | <TS |
| 2177 | A  | 104 | 97     | 12               | 03C      | 0.89      | <TS |
| 2178 | A  | 104 | 97     | 20               | 04C      | -0.94     | <TS |
| 2179 | A  | 104 | 99     | 15               | 06C      | 0.88      | <TS |
| 2180 | A  | 104 | 103    | 13               | 05C      | 0.92      | <TS |
| 2181 | A  | 104 | 103    | 7                | DBC      | -1.77     | <TS |
| 2182 | A  | 104 | 109    | 16               | VS6      | -0.66     | <TS |
| 2183 | A  | 104 | 121    | 13               | 07C      | 0.85      | <TS |
| 2184 | A  | 104 | 121    | 16               | 06C      | 0.85      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2185 | A  | 104 | 123    | 11                  | 03C      | -0.83     | <TS |
| 2186 | A  | 104 | 123    | 14                  | 04C      | 0.94      | <TS |
| 2187 | A  | 104 | 133    | 13                  | 05C      | -0.15     | <TS |
| 2188 | A  | 104 | 135    | 27                  | 03C      | 0.88      | <TS |
| 2189 | A  | 105 | 30     | 23                  | VS4      | -0.58     | <TS |
| 2190 | A  | 105 | 32     | 14                  | 01C      | 0.09      | <TS |
| 2191 | A  | 105 | 32     | 12                  | 04H      | -0.86     | <TS |
| 2192 | A  | 105 | 90     | 15                  | 05C      | 0.84      | <TS |
| 2193 | A  | 105 | 92     | 12                  | 07C      | -0.9      | <TS |
| 2194 | A  | 105 | 112    | 16                  | 05H      | 0.95      | <TS |
| 2195 | A  | 105 | 112    | 8                   | 06H      | -0.04     | <TS |
| 2196 | A  | 105 | 120    | 11                  | 04C      | 0.9       | <TS |
| 2197 | A  | 105 | 120    | 12                  | 03C      | -0.96     | <TS |
| 2198 | A  | 105 | 122    | 13                  | 06C      | 0.85      | <TS |
| 2199 | A  | 105 | 132    | 20                  | 03C      | 0.85      | <TS |
| 2200 | A  | 105 | 136    | 15                  | VS4      | -0.9      | <TS |
| 2201 | A  | 105 | 136    | 13                  | VS4      | 0.96      | <TS |
| 2202 | A  | 106 | 31     | 12                  | 01C      | -0.9      | <TS |
| 2203 | A  | 106 | 31     | 13                  | 03C      | 0.87      | <TS |
| 2204 | A  | 106 | 31     | 19                  | 04C      | 0.77      | <TS |
| 2205 | A  | 106 | 31     | 28                  | VS6      | 0.84      | <TS |
| 2206 | A  | 106 | 31     | 14                  | VS6      | 0.29      | <TS |
| 2207 | A  | 106 | 31     | 32                  | VS6      | -0.86     | <TS |
| 2208 | A  | 106 | 31     | 12                  | VS4      | 0.95      | <TS |
| 2209 | A  | 106 | 31     | 8                   | VS2      | 0.11      | <TS |
| 2210 | A  | 106 | 33     | 13                  | VS4      | -1.06     | <TS |
| 2211 | A  | 106 | 33     | 18                  | VS4      | -0.75     | <TS |
| 2212 | A  | 106 | 33     | 12                  | 04C      | -0.94     | <TS |
| 2213 | A  | 106 | 35     | 18                  | 03C      | 0.95      | <TS |
| 2214 | A  | 106 | 35     | 15                  | 03C      | 0.09      | <TS |
| 2215 | A  | 106 | 43     | 10                  | 07H      | -0.95     | <TS |
| 2216 | A  | 106 | 45     | 9                   | 05H      | -0.15     | <TS |
| 2217 | A  | 106 | 47     | 11                  | DBC      | 1.63      | <TS |
| 2218 | A  | 106 | 47     | 11                  | 04C      | 0.09      | <TS |
| 2219 | A  | 106 | 47     | 15                  | 04C      | 0.84      | <TS |
| 2220 | A  | 106 | 57     | 18                  | 07H      | 0.92      | <TS |
| 2221 | A  | 106 | 59     | 24                  | VS4      | -1.15     | <TS |
| 2222 | A  | 106 | 59     | 35                  | VS4      | 0.84      | <TS |
| 2223 | A  | 106 | 59     | 18                  | VS6      | -0.71     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2224 | A  | 106 | 59     | 13               | VS2      | -0.88     | <TS |
| 2225 | A  | 106 | 59     | 10               | DBH      | 1.61      | <TS |
| 2226 | A  | 106 | 63     | 13               | VS4      | -1.03     | <TS |
| 2227 | A  | 106 | 63     | 14               | VS4      | 0.33      | <TS |
| 2228 | A  | 106 | 67     | 20               | VS6      | 0.39      | <TS |
| 2229 | A  | 106 | 67     | 12               | VS4      | -0.7      | <TS |
| 2230 | A  | 106 | 69     | 12               | 07C      | -0.13     | <TS |
| 2231 | A  | 106 | 69     | 15               | VS2      | 0.24      | <TS |
| 2232 | A  | 106 | 69     | 11               | VS6      | 0.94      | <TS |
| 2233 | A  | 106 | 69     | 12               | VS4      | -1.19     | <TS |
| 2234 | A  | 106 | 95     | 12               | DBH      | -1.69     | <TS |
| 2235 | A  | 106 | 101    | 17               | 04H      | 0.91      | <TS |
| 2236 | A  | 106 | 101    | 9                | 06C      | 0.09      | <TS |
| 2237 | A  | 106 | 111    | 15               | DBC      | 1.6       | <TS |
| 2238 | A  | 106 | 117    | 14               | VS2      | -0.26     | <TS |
| 2239 | A  | 106 | 117    | 17               | 06C      | -0.92     | <TS |
| 2240 | A  | 106 | 117    | 8                | 04H      | 0.64      | <TS |
| 2241 | A  | 106 | 119    | 14               | VS4      | 1.03      | <TS |
| 2242 | A  | 106 | 119    | 9                | 04C      | -0.88     | <TS |
| 2243 | A  | 106 | 119    | 8                | VS4      | -1.09     | <TS |
| 2244 | A  | 106 | 121    | 17               | 04C      | 0.88      | <TS |
| 2245 | A  | 106 | 121    | 9                | 04C      | 0.13      | <TS |
| 2246 | A  | 106 | 121    | 15               | 05C      | 0.11      | <TS |
| 2247 | A  | 106 | 125    | 9                | 06C      | 0.86      | <TS |
| 2248 | A  | 106 | 131    | 11               | 04H      | -0.88     | <TS |
| 2249 | A  | 106 | 131    | 20               | 03C      | -0.53     | <TS |
| 2250 | A  | 106 | 133    | 20               | DBC      | 1.64      | <TS |
| 2251 | A  | 106 | 133    | 12               | 03C      | 0.85      | <TS |
| 2252 | A  | 106 | 135    | 9                | 01H      | 0.08      | <TS |
| 2253 | A  | 106 | 135    | 24               | VS4      | -0.81     | <TS |
| 2254 | A  | 106 | 135    | 13               | 03C      | -0.83     | <TS |
| 2255 | A  | 107 | 32     | 13               | 03C      | 0.98      | <TS |
| 2256 | A  | 107 | 32     | 13               | 04C      | -0.24     | <TS |
| 2257 | A  | 107 | 32     | 5                | 04C      | -1        | <TS |
| 2258 | A  | 107 | 32     | 11               | VS4      | -0.29     | <TS |
| 2259 | A  | 107 | 32     | 33               | VS4      | -0.8      | <TS |
| 2260 | A  | 107 | 34     | 9                | VS4      | 0.88      | <TS |
| 2261 | A  | 107 | 34     | 10               | 01H      | 0.86      | <TS |
| 2262 | A  | 107 | 36     | 10               | 03C      | 0.84      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2263 | A  | 107 | 40     | 9                   | VS2      | -0.92     | <TS |
| 2264 | A  | 107 | 44     | 13                  | 05H      | -0.95     | <TS |
| 2265 | A  | 107 | 44     | 14                  | 05H      | -0.17     | <TS |
| 2266 | A  | 107 | 44     | 13                  | VS2      | 0.79      | <TS |
| 2267 | A  | 107 | 44     | 8                   | VS4      | 0.88      | <TS |
| 2268 | A  | 107 | 62     | 13                  | VS4      | 0.77      | <TS |
| 2269 | A  | 107 | 84     | 11                  | 05C      | -0.87     | <TS |
| 2270 | A  | 107 | 92     | 14                  | 05C      | 0.83      | <TS |
| 2271 | A  | 107 | 94     | 10                  | 04C      | -0.94     | <TS |
| 2272 | A  | 107 | 98     | 9                   | 04C      | -0.11     | <TS |
| 2273 | A  | 107 | 98     | 8                   | 03C      | -0.07     | <TS |
| 2274 | A  | 107 | 114    | 9                   | 03C      | 0.11      | <TS |
| 2275 | A  | 107 | 118    | 10                  | 04C      | -0.92     | <TS |
| 2276 | A  | 107 | 120    | 13                  | DBH      | 1.89      | <TS |
| 2277 | A  | 107 | 122    | 11                  | 03C      | -0.15     | <TS |
| 2278 | A  | 107 | 124    | 15                  | 03C      | -0.9      | <TS |
| 2279 | A  | 107 | 124    | 9                   | VS2      | -0.84     | <TS |
| 2280 | A  | 107 | 124    | 15                  | VS2      | -0.09     | <TS |
| 2281 | A  | 107 | 124    | 11                  | VS2      | 0.66      | <TS |
| 2282 | A  | 107 | 128    | 15                  | 04C      | -1.01     | <TS |
| 2283 | A  | 107 | 130    | 21                  | VS2      | -0.72     | <TS |
| 2284 | A  | 107 | 130    | 11                  | VS2      | 0.9       | <TS |
| 2285 | A  | 107 | 130    | 11                  | 03C      | -0.88     | <TS |
| 2286 | A  | 107 | 134    | 17                  | 03H      | 0.82      | <TS |
| 2287 | A  | 107 | 134    | 24                  | VS4      | -0.99     | <TS |
| 2288 | A  | 107 | 134    | 17                  | VS4      | 0.79      | <TS |
| 2289 | A  | 107 | 134    | 24                  | 02C      | -0.94     | <TS |
| 2290 | A  | 107 | 134    | 11                  | 03C      | -0.95     | <TS |
| 2291 | A  | 108 | 33     | 24                  | VS4      | 0.95      | <TS |
| 2292 | A  | 108 | 33     | 29                  | VS4      | -0.88     | <TS |
| 2293 | A  | 108 | 35     | 12                  | VS4      | -0.95     | <TS |
| 2294 | A  | 108 | 35     | 10                  | VS4      | 0.91      | <TS |
| 2295 | A  | 108 | 35     | 18                  | 01C      | 0.86      | <TS |
| 2296 | A  | 108 | 35     | 27                  | 01C      | 0.09      | <TS |
| 2297 | A  | 108 | 39     | 9                   | 04H      | 0.95      | <TS |
| 2298 | A  | 108 | 41     | 16                  | VS4      | 0.95      | <TS |
| 2299 | A  | 108 | 63     | 20                  | VS2      | 0.83      | <TS |
| 2300 | A  | 108 | 63     | 11                  | VS2      | 0.2       | <TS |
| 2301 | A  | 108 | 65     | 18                  | DBH      | 1.93      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2302 | A  | 108 | 67     | 10                  | 06C      | -0.99     | <TS |
| 2303 | A  | 108 | 69     | 13                  | 07C      | 0.83      | <TS |
| 2304 | A  | 108 | 87     | 11                  | 05C      | 0.84      | <TS |
| 2305 | A  | 108 | 89     | 12                  | 06C      | -0.94     | <TS |
| 2306 | A  | 108 | 93     | 13                  | 06C      | 0.37      | <TS |
| 2307 | A  | 108 | 95     | 11                  | 03C      | 0.84      | <TS |
| 2308 | A  | 108 | 99     | 10                  | DBH      | 1.96      | <TS |
| 2309 | A  | 108 | 115    | 15                  | 05H      | 0.95      | <TS |
| 2310 | A  | 108 | 117    | 17                  | 05C      | 0.85      | <TS |
| 2311 | A  | 108 | 119    | 12                  | 03C      | 0.44      | <TS |
| 2312 | A  | 108 | 123    | 16                  | VS2      | -0.96     | <TS |
| 2313 | A  | 108 | 131    | 14                  | 02C      | -0.87     | <TS |
| 2314 | A  | 108 | 133    | 12                  | 04C      | 0.82      | <TS |
| 2315 | A  | 108 | 133    | 16                  | 04C      | -0.9      | <TS |
| 2316 | A  | 109 | 34     | 9                   | 01C      | 0.86      | <TS |
| 2317 | A  | 109 | 34     | 31                  | VS4      | 0.64      | <TS |
| 2318 | A  | 109 | 34     | 10                  | VS4      | -0.91     | <TS |
| 2319 | A  | 109 | 34     | 12                  | 05H      | -0.82     | <TS |
| 2320 | A  | 109 | 34     | 12                  | 04H      | -0.91     | <TS |
| 2321 | A  | 109 | 34     | 10                  | 01H      | 0.94      | <TS |
| 2322 | A  | 109 | 42     | 8                   | 03H      | 0.92      | <TS |
| 2323 | A  | 109 | 62     | 15                  | 06C      | 0.89      | <TS |
| 2324 | A  | 109 | 90     | 10                  | 07C      | -0.88     | <TS |
| 2325 | A  | 109 | 90     | 11                  | 07C      | -0.09     | <TS |
| 2326 | A  | 109 | 98     | 30                  | VS2      | -0.79     | <TS |
| 2327 | A  | 109 | 114    | 19                  | 06C      | 0.83      | <TS |
| 2328 | A  | 109 | 114    | 12                  | 03C      | 0.99      | <TS |
| 2329 | A  | 109 | 116    | 11                  | 04H      | -0.89     | <TS |
| 2330 | A  | 109 | 118    | 15                  | 04C      | -0.94     | <TS |
| 2331 | A  | 109 | 120    | 21                  | 03C      | -0.13     | <TS |
| 2332 | A  | 109 | 124    | 9                   | 02C      | 0.85      | <TS |
| 2333 | A  | 109 | 124    | 11                  | 08C      | -1.12     | <TS |
| 2334 | A  | 109 | 128    | 10                  | 04C      | 0.87      | <TS |
| 2335 | A  | 109 | 132    | 20                  | 04C      | 0.85      | <TS |
| 2336 | A  | 110 | 35     | 10                  | VS4      | 0.9       | <TS |
| 2337 | A  | 110 | 35     | 15                  | 01H      | 0.92      | <TS |
| 2338 | A  | 110 | 39     | 15                  | VS2      | 0.86      | <TS |
| 2339 | A  | 110 | 47     | 11                  | 05C      | 0.9       | <TS |
| 2340 | A  | 110 | 79     | 11                  | 06C      | -0.18     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2341 | A  | 110 | 83     | 16               | 06C      | 0.9       | <TS |
| 2342 | A  | 110 | 91     | 13               | 04C      | -0.9      | <TS |
| 2343 | A  | 110 | 109    | 7                | DBC      | -0.24     | <TS |
| 2344 | A  | 110 | 109    | 15               | 05C      | 1.16      | <TS |
| 2345 | A  | 110 | 109    | 10               | 04C      | 0.9       | <TS |
| 2346 | A  | 110 | 115    | 12               | 08H      | 0.92      | <TS |
| 2347 | A  | 110 | 115    | 9                | 04C      | 0.9       | <TS |
| 2348 | A  | 110 | 123    | 21               | 08H      | -1.05     | <TS |
| 2349 | A  | 110 | 125    | 22               | VS2      | 0.9       | <TS |
| 2350 | A  | 110 | 131    | 15               | 01H      | 0.11      | <TS |
| 2351 | A  | 110 | 131    | 31               | DBH      | -1.73     | <TS |
| 2352 | A  | 110 | 131    | 15               | 04C      | -0.9      | <TS |
| 2353 | A  | 110 | 131    | 19               | 03C      | 0.81      | <TS |
| 2354 | A  | 110 | 131    | 11               | 05C      | -0.02     | <TS |
| 2355 | A  | 111 | 44     | 16               | 06C      | -0.15     | <TS |
| 2356 | A  | 111 | 50     | 9                | 04H      | -0.87     | <TS |
| 2357 | A  | 111 | 62     | 19               | VS2      | -0.82     | <TS |
| 2358 | A  | 111 | 82     | 8                | 02H      | 0.85      | <TS |
| 2359 | A  | 111 | 86     | 11               | 02C      | 0.9       | <TS |
| 2360 | A  | 111 | 100    | 11               | 05C      | 0.85      | <TS |
| 2361 | A  | 111 | 104    | 11               | 04C      | -0.18     | <TS |
| 2362 | A  | 111 | 110    | 17               | VS4      | -0.9      | <TS |
| 2363 | A  | 111 | 116    | 14               | 03C      | 0.83      | <TS |
| 2364 | A  | 111 | 116    | 13               | 03H      | 0.91      | <TS |
| 2365 | A  | 111 | 126    | 14               | 04C      | 0.85      | <TS |
| 2366 | A  | 111 | 126    | 8                | 04C      | 0.13      | <TS |
| 2367 | A  | 111 | 128    | 11               | VS4      | 0.96      | <TS |
| 2368 | A  | 111 | 128    | 12               | 03C      | 0.86      | <TS |
| 2369 | A  | 111 | 128    | 20               | 03C      | -0.87     | <TS |
| 2370 | A  | 111 | 130    | 19               | 04C      | -0.2      | <TS |
| 2371 | A  | 111 | 130    | 12               | 03H      | -0.92     | <TS |
| 2372 | A  | 112 | 37     | 10               | DBH      | -1.52     | <TS |
| 2373 | A  | 112 | 37     | 20               | 02C      | -0.92     | <TS |
| 2374 | A  | 112 | 39     | 9                | VS6      | 0.93      | <TS |
| 2375 | A  | 112 | 41     | 12               | VS6      | -0.86     | <TS |
| 2376 | A  | 112 | 41     | 20               | VS4      | -0.95     | <TS |
| 2377 | A  | 112 | 59     | 21               | VS4      | -0.79     | <TS |
| 2378 | A  | 112 | 59     | 24               | VS4      | 0.02      | <TS |
| 2379 | A  | 112 | 59     | 33               | VS6      | 0.94      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2380 | A  | 112 | 65     | 12               | VS4      | 0.74      | <TS |
| 2381 | A  | 112 | 65     | 14               | VS4      | -0.79     | <TS |
| 2382 | A  | 112 | 69     | 12               | VS2      | 0.81      | <TS |
| 2383 | A  | 112 | 69     | 16               | VS2      | -0.02     | <TS |
| 2384 | A  | 112 | 89     | 10               | 04C      | -0.9      | <TS |
| 2385 | A  | 112 | 89     | 15               | VS4      | -0.87     | <TS |
| 2386 | A  | 112 | 103    | 12               | VS2      | 0.9       | <TS |
| 2387 | A  | 112 | 103    | 12               | 04H      | 0.89      | <TS |
| 2388 | A  | 112 | 103    | 14               | VS2      | -0.92     | <TS |
| 2389 | A  | 112 | 115    | 13               | 04C      | -0.89     | <TS |
| 2390 | A  | 112 | 119    | 14               | 04H      | 0.92      | <TS |
| 2391 | A  | 112 | 121    | 17               | VS2      | -0.81     | <TS |
| 2392 | A  | 112 | 125    | 11               | 05C      | -0.89     | <TS |
| 2393 | A  | 112 | 125    | 12               | 04C      | 0.89      | <TS |
| 2394 | A  | 112 | 127    | 16               | 05C      | -0.96     | <TS |
| 2395 | A  | 113 | 36     | 11               | 01H      | 0.9       | <TS |
| 2396 | A  | 113 | 36     | 9                | 01H      | -0.09     | <TS |
| 2397 | A  | 113 | 36     | 18               | VS4      | -0.79     | <TS |
| 2398 | A  | 113 | 38     | 14               | 02C      | 0.86      | <TS |
| 2399 | A  | 113 | 38     | 12               | 01C      | -0.95     | <TS |
| 2400 | A  | 113 | 42     | 14               | VS4      | 0.95      | <TS |
| 2401 | A  | 113 | 42     | 15               | VS4      | -0.88     | <TS |
| 2402 | A  | 113 | 64     | 12               | 07H      | 0.83      | <TS |
| 2403 | A  | 113 | 68     | 15               | VS2      | -0.77     | <TS |
| 2404 | A  | 113 | 68     | 13               | VS6      | 1.05      | <TS |
| 2405 | A  | 113 | 68     | 11               | VS4      | -1.05     | <TS |
| 2406 | A  | 113 | 76     | 16               | VS6      | 0.85      | <TS |
| 2407 | A  | 113 | 90     | 14               | 03C      | -0.92     | <TS |
| 2408 | A  | 113 | 90     | 10               | VS6      | -0.74     | <TS |
| 2409 | A  | 113 | 90     | 12               | VS4      | -0.59     | <TS |
| 2410 | A  | 113 | 118    | 15               | 04C      | 0.13      | <TS |
| 2411 | A  | 113 | 128    | 12               | 03H      | 0.94      | <TS |
| 2412 | A  | 113 | 128    | 17               | 04H      | -0.87     | <TS |
| 2413 | A  | 113 | 130    | 22               | VS4      | -0.83     | <TS |
| 2414 | A  | 113 | 130    | 22               | VS4      | -0.48     | <TS |
| 2415 | A  | 114 | 45     | 8                | VS2      | 0.53      | <TS |
| 2416 | A  | 114 | 47     | 11               | 05H      | 0.91      | <TS |
| 2417 | A  | 114 | 51     | 11               | 04C      | 0.88      | <TS |
| 2418 | A  | 114 | 53     | 9                | 04H      | 0.91      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2419 | A  | 114 | 53     | 9                   | 04C      | 0.95      | <TS |
| 2420 | A  | 114 | 65     | 14                  | VS4      | 0.83      | <TS |
| 2421 | A  | 114 | 75     | 11                  | 06H      | 0.97      | <TS |
| 2422 | A  | 114 | 79     | 8                   | 05H      | 0.91      | <TS |
| 2423 | A  | 114 | 119    | 14                  | 07C      | 0.76      | <TS |
| 2424 | A  | 114 | 119    | 16                  | 03C      | 0.76      | <TS |
| 2425 | A  | 114 | 121    | 14                  | 04C      | 0.81      | <TS |
| 2426 | A  | 114 | 121    | 11                  | 03C      | -0.91     | <TS |
| 2427 | A  | 114 | 123    | 12                  | 04C      | -0.94     | <TS |
| 2428 | A  | 114 | 123    | 20                  | 03C      | -0.89     | <TS |
| 2429 | A  | 114 | 129    | 8                   | 03H      | 1.01      | <TS |
| 2430 | A  | 114 | 129    | 12                  | 08H      | -0.97     | <TS |
| 2431 | A  | 114 | 129    | 25                  | VS4      | -0.91     | <TS |
| 2432 | A  | 114 | 129    | 10                  | VS4      | 0.97      | <TS |
| 2433 | A  | 115 | 38     | 15                  | 02C      | 0.09      | <TS |
| 2434 | A  | 115 | 38     | 10                  | 02C      | -0.86     | <TS |
| 2435 | A  | 115 | 38     | 12                  | DBC      | 1.31      | <TS |
| 2436 | A  | 115 | 38     | 11                  | VS4      | 0.51      | <TS |
| 2437 | A  | 115 | 38     | 10                  | VS4      | 0.89      | <TS |
| 2438 | A  | 115 | 46     | 16                  | VS4      | -0.88     | <TS |
| 2439 | A  | 115 | 50     | 10                  | VS4      | -0.77     | <TS |
| 2440 | A  | 115 | 78     | 17                  | 06H      | -0.87     | <TS |
| 2441 | A  | 115 | 82     | 13                  | 05H      | 0.82      | <TS |
| 2442 | A  | 115 | 82     | 8                   | 05H      | -0.04     | <TS |
| 2443 | A  | 115 | 90     | 9                   | VS2      | -0.79     | <TS |
| 2444 | A  | 115 | 90     | 39                  | VS4      | -0.88     | <TS |
| 2445 | A  | 115 | 92     | 27                  | VS1      | 0.79      | <TS |
| 2446 | A  | 115 | 124    | 12                  | 05C      | 1.01      | <TS |
| 2447 | A  | 115 | 124    | 17                  | 04C      | -0.95     | <TS |
| 2448 | A  | 115 | 124    | 10                  | 03C      | 0.88      | <TS |
| 2449 | A  | 115 | 128    | 11                  | 05H      | 0.8       | <TS |
| 2450 | A  | 115 | 128    | 9                   | VS4      | -0.64     | <TS |
| 2451 | A  | 116 | 39     | 30                  | 02C      | -0.86     | <TS |
| 2452 | A  | 116 | 39     | 13                  | 01C      | -0.49     | <TS |
| 2453 | A  | 116 | 39     | 15                  | VS6      | -0.57     | <TS |
| 2454 | A  | 116 | 45     | 12                  | VS7      | 0.75      | <TS |
| 2455 | A  | 116 | 45     | 15                  | 02H      | 0.82      | <TS |
| 2456 | A  | 116 | 51     | 11                  | 05H      | -0.19     | <TS |
| 2457 | A  | 116 | 51     | 17                  | 07H      | 0.88      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2458 | A  | 116 | 53     | 12               | 05C      | 0.9       | <TS |
| 2459 | A  | 116 | 55     | 12               | 05H      | -0.82     | <TS |
| 2460 | A  | 116 | 61     | 11               | VS4      | 0.83      | <TS |
| 2461 | A  | 116 | 63     | 14               | VS6      | -0.79     | <TS |
| 2462 | A  | 116 | 71     | 11               | VS4      | 0.94      | <TS |
| 2463 | A  | 116 | 81     | 12               | 05H      | 0.89      | <TS |
| 2464 | A  | 116 | 81     | 14               | VS6      | -0.85     | <TS |
| 2465 | A  | 116 | 81     | 10               | 06C      | 0.87      | <TS |
| 2466 | A  | 116 | 81     | 11               | 06C      | -0.92     | <TS |
| 2467 | A  | 116 | 95     | 13               | 07C      | -0.92     | <TS |
| 2468 | A  | 116 | 95     | 10               | 06C      | 0.81      | <TS |
| 2469 | A  | 116 | 105    | 23               | VS4      | -1.05     | <TS |
| 2470 | A  | 116 | 111    | 15               | 05C      | 0.04      | <TS |
| 2471 | A  | 116 | 119    | 21               | 03C      | 0.81      | <TS |
| 2472 | A  | 116 | 121    | 11               | 03C      | -0.88     | <TS |
| 2473 | A  | 116 | 121    | 22               | 04C      | 0.82      | <TS |
| 2474 | A  | 116 | 121    | 12               | VS7      | 0.96      | <TS |
| 2475 | A  | 116 | 121    | 7                | 04C      | -0.09     | <TS |
| 2476 | A  | 116 | 123    | 15               | 06C      | 0.04      | <TS |
| 2477 | A  | 117 | 40     | 21               | VS4      | -0.95     | <TS |
| 2478 | A  | 117 | 40     | 24               | 02C      | 0.88      | <TS |
| 2479 | A  | 117 | 40     | 10               | 02C      | -0.15     | <TS |
| 2480 | A  | 117 | 42     | 36               | 01C      | -0.93     | <TS |
| 2481 | A  | 117 | 42     | 12               | 02C      | 0.81      | <TS |
| 2482 | A  | 117 | 44     | 10               | 02C      | 0.86      | <TS |
| 2483 | A  | 117 | 50     | 12               | VS4      | -0.88     | <TS |
| 2484 | A  | 117 | 58     | 15               | 06C      | 0.83      | <TS |
| 2485 | A  | 117 | 70     | 11               | 06C      | 0.75      | <TS |
| 2486 | A  | 117 | 72     | 11               | 07H      | 0.46      | <TS |
| 2487 | A  | 117 | 76     | 10               | 07H      | 0.13      | <TS |
| 2488 | A  | 117 | 78     | 11               | 04H      | 0.88      | <TS |
| 2489 | A  | 117 | 82     | 13               | 05H      | -0.97     | <TS |
| 2490 | A  | 117 | 90     | 12               | VS2      | 0.83      | <TS |
| 2491 | A  | 117 | 94     | 9                | 03C      | 0.88      | <TS |
| 2492 | A  | 117 | 110    | 13               | 03C      | 0.86      | <TS |
| 2493 | A  | 117 | 114    | 14               | 03C      | -0.88     | <TS |
| 2494 | A  | 117 | 120    | 12               | 03H      | 0.84      | <TS |
| 2495 | A  | 117 | 120    | 13               | 02C      | 0.83      | <TS |
| 2496 | A  | 117 | 122    | 14               | VS4      | -0.02     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2497 | A  | 117 | 122    | 12                  | 04C      | -0.2      | <TS |
| 2498 | A  | 118 | 41     | 9                   | 01H      | 0.89      | <TS |
| 2499 | A  | 118 | 41     | 16                  | VS4      | -0.92     | <TS |
| 2500 | A  | 118 | 41     | 26                  | 02C      | 0         | <TS |
| 2501 | A  | 118 | 43     | 35                  | 01C      | -0.91     | <TS |
| 2502 | A  | 118 | 43     | 11                  | 02C      | -0.94     | <TS |
| 2503 | A  | 118 | 43     | 8                   | 02C      | 0.77      | <TS |
| 2504 | A  | 118 | 43     | 10                  | 06H      | -0.91     | <TS |
| 2505 | A  | 118 | 43     | 12                  | 03H      | 0.88      | <TS |
| 2506 | A  | 118 | 45     | 10                  | VS6      | 0.99      | <TS |
| 2507 | A  | 118 | 47     | 14                  | 02H      | 0.73      | <TS |
| 2508 | A  | 118 | 51     | 13                  | 06C      | 0.84      | <TS |
| 2509 | A  | 118 | 53     | 10                  | VS6      | -0.86     | <TS |
| 2510 | A  | 118 | 63     | 16                  | VS4      | -0.94     | <TS |
| 2511 | A  | 118 | 63     | 9                   | VS4      | 0.92      | <TS |
| 2512 | A  | 118 | 97     | 13                  | VS2      | -0.99     | <TS |
| 2513 | A  | 118 | 99     | 17                  | VS2      | 0.83      | <TS |
| 2514 | A  | 118 | 101    | 11                  | 04H      | -0.13     | <TS |
| 2515 | A  | 118 | 101    | 12                  | VS4      | 0.88      | <TS |
| 2516 | A  | 118 | 105    | 15                  | 04C      | 0.88      | <TS |
| 2517 | A  | 118 | 125    | 21                  | VS7      | -0.72     | <TS |
| 2518 | A  | 119 | 42     | 12                  | VS4      | -0.88     | <TS |
| 2519 | A  | 119 | 44     | 11                  | 02H      | 0.9       | <TS |
| 2520 | A  | 119 | 52     | 26                  | 06C      | 0.84      | <TS |
| 2521 | A  | 119 | 60     | 15                  | VS4      | -0.88     | <TS |
| 2522 | A  | 119 | 60     | 15                  | VS4      | 0.93      | <TS |
| 2523 | A  | 119 | 76     | 9                   | 06C      | 0.83      | <TS |
| 2524 | A  | 119 | 82     | 11                  | VS4      | 0.18      | <TS |
| 2525 | A  | 119 | 98     | 6                   | 07H      | 0.9       | <TS |
| 2526 | A  | 119 | 110    | 21                  | 04C      | -0.86     | <TS |
| 2527 | A  | 119 | 122    | 15                  | 06H      | 0.92      | <TS |
| 2528 | A  | 119 | 122    | 13                  | 03C      | 0.77      | <TS |
| 2529 | A  | 119 | 124    | 10                  | VS4      | -0.86     | <TS |
| 2530 | A  | 119 | 124    | 7                   | VS4      | 0.61      | <TS |
| 2531 | A  | 120 | 45     | 11                  | 02H      | 0.88      | <TS |
| 2532 | A  | 120 | 75     | 12                  | VS4      | 0.98      | <TS |
| 2533 | A  | 120 | 75     | 14                  | 08C      | -0.94     | <TS |
| 2534 | A  | 120 | 77     | 8                   | 07C      | 0.09      | <TS |
| 2535 | A  | 120 | 81     | 10                  | VS4      | 1.07      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2536 | A  | 120 | 81     | 18               | 07C      | 0.85      | <TS |
| 2537 | A  | 120 | 81     | 17               | 07C      | 0.07      | <TS |
| 2538 | A  | 120 | 81     | 13               | 06C      | 0.83      | <TS |
| 2539 | A  | 120 | 89     | 14               | 06C      | -0.88     | <TS |
| 2540 | A  | 120 | 93     | 14               | 06C      | 0.81      | <TS |
| 2541 | A  | 120 | 111    | 12               | 04C      | 0.07      | <TS |
| 2542 | A  | 120 | 111    | 11               | 03C      | -0.94     | <TS |
| 2543 | A  | 120 | 115    | 14               | 04C      | 0.83      | <TS |
| 2544 | A  | 120 | 115    | 14               | 05C      | -0.89     | <TS |
| 2545 | A  | 120 | 117    | 9                | 04C      | 0.75      | <TS |
| 2546 | A  | 120 | 119    | 20               | 03C      | 0.83      | <TS |
| 2547 | A  | 120 | 121    | 21               | 05C      | 0.81      | <TS |
| 2548 | A  | 120 | 123    | 18               | 01H      | -0.13     | <TS |
| 2549 | A  | 121 | 44     | 18               | VS4      | -0.02     | <TS |
| 2550 | A  | 121 | 44     | 9                | VS4      | 0.66      | <TS |
| 2551 | A  | 121 | 44     | 16               | 01C      | -0.95     | <TS |
| 2552 | A  | 121 | 44     | 10               | VS7      | 0.9       | <TS |
| 2553 | A  | 121 | 50     | 14               | 06C      | 0.79      | <TS |
| 2554 | A  | 121 | 64     | 11               | 07H      | 0.86      | <TS |
| 2555 | A  | 121 | 76     | 12               | VS6      | 0.83      | <TS |
| 2556 | A  | 121 | 88     | 13               | 07C      | -0.92     | <TS |
| 2557 | A  | 121 | 104    | 9                | VS4      | 0.61      | <TS |
| 2558 | A  | 121 | 104    | 11               | VS6      | -0.85     | <TS |
| 2559 | A  | 121 | 104    | 11               | VS6      | -0.07     | <TS |
| 2560 | A  | 121 | 106    | 8                | 02C      | 0.83      | <TS |
| 2561 | A  | 121 | 112    | 22               | VS7      | -0.73     | <TS |
| 2562 | A  | 121 | 116    | 15               | 04C      | -0.88     | <TS |
| 2563 | A  | 121 | 116    | 23               | 03C      | 0.84      | <TS |
| 2564 | A  | 121 | 118    | 29               | VS4      | -0.73     | <TS |
| 2565 | A  | 121 | 118    | 16               | VS4      | 0.04      | <TS |
| 2566 | A  | 121 | 118    | 19               | VS4      | 0.77      | <TS |
| 2567 | A  | 121 | 118    | 9                | VS6      | 0.94      | <TS |
| 2568 | A  | 121 | 118    | 8                | VS7      | -1.05     | <TS |
| 2569 | A  | 121 | 118    | 25               | 03C      | 0.92      | <TS |
| 2570 | A  | 121 | 120    | 14               | 05H      | 0.82      | <TS |
| 2571 | A  | 121 | 120    | 15               | 06H      | 0.85      | <TS |
| 2572 | A  | 122 | 45     | 11               | 01C      | 0.91      | <TS |
| 2573 | A  | 122 | 53     | 12               | 06H      | 0.77      | <TS |
| 2574 | A  | 122 | 63     | 15               | 05H      | 0.95      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2575 | A  | 122 | 63     | 10               | 05H      | 0         | <TS |
| 2576 | A  | 122 | 65     | 9                | DBH      | 1.49      | <TS |
| 2577 | A  | 122 | 65     | 12               | VS6      | 0.83      | <TS |
| 2578 | A  | 122 | 81     | 20               | VS4      | 1.1       | <TS |
| 2579 | A  | 122 | 105    | 8                | 04C      | 0.88      | <TS |
| 2580 | A  | 122 | 105    | 9                | 04C      | 0.09      | <TS |
| 2581 | A  | 122 | 111    | 14               | 05C      | -1.01     | <TS |
| 2582 | A  | 122 | 111    | 11               | 02C      | -0.15     | <TS |
| 2583 | A  | 122 | 117    | 10               | VS2      | 0.02      | <TS |
| 2584 | A  | 122 | 117    | 17               | VS2      | -0.83     | <TS |
| 2585 | A  | 122 | 117    | 13               | VS1      | 0.85      | <TS |
| 2586 | A  | 123 | 48     | 9                | 05C      | 0.86      | <TS |
| 2587 | A  | 123 | 52     | 11               | 06H      | -0.91     | <TS |
| 2588 | A  | 123 | 110    | 10               | VS2      | 0.94      | <TS |
| 2589 | A  | 123 | 110    | 7                | 06C      | -0.07     | <TS |
| 2590 | A  | 123 | 112    | 14               | 03C      | 0.9       | <TS |
| 2591 | A  | 123 | 114    | 17               | 04C      | -0.18     | <TS |
| 2592 | A  | 123 | 120    | 15               | 02H      | 0.79      | <TS |
| 2593 | A  | 123 | 120    | 9                | 04H      | -0.84     | <TS |
| 2594 | A  | 123 | 120    | 10               | 04H      | 0.88      | <TS |
| 2595 | A  | 123 | 120    | 11               | VS4      | -0.79     | <TS |
| 2596 | A  | 124 | 49     | 12               | 01H      | 0.91      | <TS |
| 2597 | A  | 124 | 51     | 14               | 03H      | 0.86      | <TS |
| 2598 | A  | 124 | 57     | 10               | 05C      | 0.9       | <TS |
| 2599 | A  | 124 | 117    | 13               | 06C      | -0.2      | <TS |
| 2600 | A  | 124 | 117    | 13               | 03C      | 0         | <TS |
| 2601 | A  | 124 | 119    | 9                | 02C      | -0.9      | <TS |
| 2602 | A  | 124 | 119    | 11               | VS4      | -0.9      | <TS |
| 2603 | A  | 125 | 48     | 21               | VS4      | -0.93     | <TS |
| 2604 | A  | 125 | 88     | 19               | 08H      | 0.89      | <TS |
| 2605 | A  | 125 | 110    | 18               | 03C      | 0.83      | <TS |
| 2606 | A  | 125 | 112    | 16               | 07H      | -0.26     | <TS |
| 2607 | A  | 125 | 112    | 16               | VS6      | -0.9      | <TS |
| 2608 | A  | 125 | 112    | 11               | 04C      | -0.92     | <TS |
| 2609 | A  | 125 | 112    | 16               | 03C      | 0.13      | <TS |
| 2610 | A  | 125 | 112    | 11               | 02C      | 0.88      | <TS |
| 2611 | A  | 125 | 114    | 13               | 03H      | -0.19     | <TS |
| 2612 | A  | 125 | 114    | 11               | 02C      | 0.84      | <TS |
| 2613 | A  | 125 | 118    | 12               | VS4      | -0.83     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2614 | A  | 126 | 51     | 10                  | 01H      | 0.09      | <TS |
| 2615 | A  | 126 | 51     | 20                  | 03H      | 0.85      | <TS |
| 2616 | A  | 126 | 51     | 9                   | VS2      | 0.86      | <TS |
| 2617 | A  | 126 | 61     | 7                   | 07H      | -0.99     | <TS |
| 2618 | A  | 126 | 63     | 11                  | 07H      | 0.85      | <TS |
| 2619 | A  | 126 | 69     | 14                  | VS4      | -0.9      | <TS |
| 2620 | A  | 126 | 69     | 34                  | VS4      | 0.88      | <TS |
| 2621 | A  | 126 | 69     | 10                  | 08H      | -0.88     | <TS |
| 2622 | A  | 126 | 73     | 12                  | 08C      | -0.9      | <TS |
| 2623 | A  | 126 | 77     | 13                  | VS1      | -0.89     | <TS |
| 2624 | A  | 126 | 77     | 15                  | VS1      | 0.91      | <TS |
| 2625 | A  | 126 | 83     | 10                  | 07H      | 0.09      | <TS |
| 2626 | A  | 126 | 85     | 12                  | 06C      | 0.89      | <TS |
| 2627 | A  | 126 | 103    | 10                  | VS1      | 0.92      | <TS |
| 2628 | A  | 126 | 103    | 31                  | VS4      | -0.99     | <TS |
| 2629 | A  | 126 | 109    | 10                  | 05C      | 0.79      | <TS |
| 2630 | A  | 126 | 109    | 6                   | 05C      | 0.07      | <TS |
| 2631 | A  | 126 | 109    | 9                   | 03C      | 0.9       | <TS |
| 2632 | A  | 126 | 109    | 7                   | 03C      | 0.04      | <TS |
| 2633 | A  | 126 | 111    | 12                  | VS6      | -0.9      | <TS |
| 2634 | A  | 126 | 111    | 15                  | VS7      | 0.92      | <TS |
| 2635 | A  | 126 | 111    | 10                  | 04C      | -0.15     | <TS |
| 2636 | A  | 126 | 111    | 13                  | 03C      | -0.92     | <TS |
| 2637 | A  | 126 | 111    | 10                  | 02C      | -0.88     | <TS |
| 2638 | A  | 126 | 115    | 9                   | 05H      | 0.91      | <TS |
| 2639 | A  | 126 | 115    | 14                  | VS6      | -0.92     | <TS |
| 2640 | A  | 126 | 115    | 16                  | 04C      | 0.9       | <TS |
| 2641 | A  | 126 | 115    | 7                   | 03C      | 0.86      | <TS |
| 2642 | A  | 126 | 115    | 16                  | 02C      | -0.88     | <TS |
| 2643 | A  | 126 | 115    | 13                  | 02C      | 0.29      | <TS |
| 2644 | A  | 127 | 52     | 9                   | 03C      | -0.13     | <TS |
| 2645 | A  | 127 | 52     | 9                   | 02C      | -0.94     | <TS |
| 2646 | A  | 127 | 52     | 9                   | 01C      | 0.96      | <TS |
| 2647 | A  | 127 | 56     | 11                  | DBH      | 1.58      | <TS |
| 2648 | A  | 127 | 56     | 15                  | VS1      | -0.72     | <TS |
| 2649 | A  | 127 | 56     | 10                  | VS1      | 0.77      | <TS |
| 2650 | A  | 127 | 56     | 11                  | VS4      | 0.9       | <TS |
| 2651 | A  | 127 | 56     | 16                  | VS6      | 0.88      | <TS |
| 2652 | A  | 127 | 72     | 18                  | VS6      | -0.37     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2653 | A  | 127 | 76     | 13               | VS1      | -0.92     | <TS |
| 2654 | A  | 127 | 76     | 9                | VS4      | 1.05      | <TS |
| 2655 | A  | 127 | 80     | 14               | VS7      | 0.76      | <TS |
| 2656 | A  | 127 | 80     | 17               | 06C      | 0.81      | <TS |
| 2657 | A  | 127 | 90     | 11               | 08H      | -0.88     | <TS |
| 2658 | A  | 127 | 98     | 10               | 04C      | -0.9      | <TS |
| 2659 | A  | 127 | 106    | 13               | VS4      | -0.57     | <TS |
| 2660 | A  | 127 | 108    | 21               | 05C      | -0.9      | <TS |
| 2661 | A  | 127 | 110    | 29               | VS2      | -0.88     | <TS |
| 2662 | A  | 127 | 110    | 16               | VS2      | 0.94      | <TS |
| 2663 | A  | 127 | 110    | 14               | VS4      | -0.92     | <TS |
| 2664 | A  | 127 | 110    | 15               | VS4      | -0.04     | <TS |
| 2665 | A  | 127 | 112    | 25               | 03C      | -0.9      | <TS |
| 2666 | A  | 127 | 112    | 12               | 02C      | -0.99     | <TS |
| 2667 | A  | 127 | 114    | 18               | VS4      | -0.11     | <TS |
| 2668 | A  | 127 | 114    | 16               | 05C      | -0.09     | <TS |
| 2669 | A  | 128 | 53     | 19               | 02H      | -0.95     | <TS |
| 2670 | A  | 128 | 55     | 7                | VS1      | -0.86     | <TS |
| 2671 | A  | 128 | 55     | 11               | VS7      | 1.19      | <TS |
| 2672 | A  | 128 | 55     | 11               | VS6      | 0.04      | <TS |
| 2673 | A  | 128 | 69     | 15               | 08H      | 0.82      | <TS |
| 2674 | A  | 128 | 71     | 18               | VS1      | -1.01     | <TS |
| 2675 | A  | 128 | 71     | 31               | VS1      | 0.92      | <TS |
| 2676 | A  | 128 | 71     | 15               | VS2      | 0.07      | <TS |
| 2677 | A  | 128 | 77     | 16               | 07C      | 0.9       | <TS |
| 2678 | A  | 128 | 85     | 14               | DBH      | 1.84      | <TS |
| 2679 | A  | 128 | 91     | 13               | 08C      | 0.85      | <TS |
| 2680 | A  | 128 | 93     | 13               | VS6      | -0.73     | <TS |
| 2681 | A  | 128 | 101    | 14               | VS2      | -0.85     | <TS |
| 2682 | A  | 128 | 101    | 7                | VS2      | 0.96      | <TS |
| 2683 | A  | 128 | 103    | 13               | VS2      | 0.85      | <TS |
| 2684 | A  | 128 | 107    | 12               | 03C      | 0.83      | <TS |
| 2685 | A  | 128 | 107    | 13               | 02C      | 0.86      | <TS |
| 2686 | A  | 128 | 111    | 15               | 05C      | 0.83      | <TS |
| 2687 | A  | 128 | 113    | 12               | 05C      | -0.94     | <TS |
| 2688 | A  | 129 | 54     | 25               | 02C      | -0.92     | <TS |
| 2689 | A  | 129 | 56     | 18               | 02H      | 0.99      | <TS |
| 2690 | A  | 129 | 58     | 31               | 02H      | 0.84      | <TS |
| 2691 | A  | 129 | 58     | 14               | 07H      | -0.96     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2692 | A  | 129 | 58     | 13               | VS2      | -0.79     | <TS |
| 2693 | A  | 129 | 64     | 12               | 06C      | 0.88      | <TS |
| 2694 | A  | 129 | 74     | 14               | VS1      | -0.92     | <TS |
| 2695 | A  | 129 | 84     | 10               | VS4      | 0.64      | <TS |
| 2696 | A  | 129 | 86     | 10               | DBH      | 1.89      | <TS |
| 2697 | A  | 129 | 92     | 13               | VS4      | -0.88     | <TS |
| 2698 | A  | 129 | 92     | 8                | VS4      | 0.99      | <TS |
| 2699 | A  | 129 | 94     | 12               | VS4      | 0.59      | <TS |
| 2700 | A  | 129 | 110    | 17               | 04C      | 0.09      | <TS |
| 2701 | A  | 129 | 110    | 24               | 02C      | 0.86      | <TS |
| 2702 | A  | 129 | 112    | 13               | VS2      | -0.83     | <TS |
| 2703 | A  | 129 | 112    | 10               | VS1      | -0.9      | <TS |
| 2704 | A  | 130 | 55     | 11               | 02H      | 0.92      | <TS |
| 2705 | A  | 130 | 57     | 10               | 02H      | 0.9       | <TS |
| 2706 | A  | 130 | 57     | 20               | 08H      | 0.77      | <TS |
| 2707 | A  | 130 | 71     | 20               | VS4      | -0.92     | <TS |
| 2708 | A  | 130 | 73     | 18               | VS7      | 0.75      | <TS |
| 2709 | A  | 130 | 73     | 11               | VS6      | 0.95      | <TS |
| 2710 | A  | 130 | 89     | 12               | DBC      | -1.99     | <TS |
| 2711 | A  | 130 | 93     | 11               | DBH      | 1.97      | <TS |
| 2712 | A  | 130 | 95     | 23               | VS4      | -1.01     | <TS |
| 2713 | A  | 130 | 99     | 24               | 03C      | -0.18     | <TS |
| 2714 | A  | 130 | 99     | 9                | 03C      | -0.83     | <TS |
| 2715 | A  | 130 | 107    | 13               | 03C      | -0.29     | <TS |
| 2716 | A  | 130 | 107    | 14               | 02C      | 0.92      | <TS |
| 2717 | A  | 131 | 58     | 12               | 02H      | 0.86      | <TS |
| 2718 | A  | 131 | 70     | 10               | DBC      | 1.92      | <TS |
| 2719 | A  | 131 | 76     | 12               | 06C      | 0.86      | <TS |
| 2720 | A  | 131 | 86     | 12               | 08H      | 0.89      | <TS |
| 2721 | A  | 131 | 94     | 11               | 08H      | -1.01     | <TS |
| 2722 | A  | 131 | 94     | 15               | 08H      | 0.97      | <TS |
| 2723 | A  | 131 | 94     | 16               | VS1      | 0.9       | <TS |
| 2724 | A  | 131 | 96     | 19               | 06C      | 0.79      | <TS |
| 2725 | A  | 131 | 98     | 12               | 03C      | 0.86      | <TS |
| 2726 | A  | 131 | 106    | 12               | 03C      | -0.83     | <TS |
| 2727 | A  | 132 | 59     | 13               | 01C      | 0.81      | <TS |
| 2728 | A  | 132 | 63     | 7                | 07H      | -1.03     | <TS |
| 2729 | A  | 132 | 63     | 9                | VS6      | 0.88      | <TS |
| 2730 | A  | 132 | 67     | 17               | VS2      | -0.92     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2731 | A  | 132 | 67     | 12                  | VS2      | 0.92      | <TS |
| 2732 | A  | 132 | 81     | 12                  | DBC      | 1.74      | <TS |
| 2733 | A  | 132 | 87     | 9                   | DBH      | 1.61      | <TS |
| 2734 | A  | 132 | 91     | 19                  | DBC      | -1.99     | <TS |
| 2735 | A  | 132 | 93     | 30                  | VS2      | 0.73      | <TS |
| 2736 | A  | 132 | 95     | 32                  | VS7      | 0.79      | <TS |
| 2737 | A  | 132 | 97     | 19                  | VS7      | -0.75     | <TS |
| 2738 | A  | 132 | 97     | 8                   | 08C      | 0         | <TS |
| 2739 | A  | 132 | 99     | 12                  | 06C      | 0.83      | <TS |
| 2740 | A  | 132 | 99     | 14                  | DBC      | 1.88      | <TS |
| 2741 | A  | 132 | 107    | 13                  | 04C      | 0.15      | <TS |
| 2742 | A  | 132 | 107    | 11                  | 03C      | 0.81      | <TS |
| 2743 | A  | 132 | 107    | 14                  | 03C      | -0.99     | <TS |
| 2744 | A  | 133 | 60     | 13                  | 02H      | -0.88     | <TS |
| 2745 | A  | 133 | 60     | 11                  | 02H      | 0.94      | <TS |
| 2746 | A  | 133 | 60     | 11                  | VS4      | 0.58      | <TS |
| 2747 | A  | 133 | 60     | 8                   | VS7      | -0.84     | <TS |
| 2748 | A  | 133 | 60     | 8                   | VS2      | -0.04     | <TS |
| 2749 | A  | 133 | 64     | 15                  | 05H      | -0.09     | <TS |
| 2750 | A  | 133 | 64     | 13                  | VS1      | 0.92      | <TS |
| 2751 | A  | 133 | 64     | 8                   | VS6      | 0.81      | <TS |
| 2752 | A  | 133 | 66     | 14                  | VS4      | -0.88     | <TS |
| 2753 | A  | 133 | 70     | 11                  | 08C      | 0.88      | <TS |
| 2754 | A  | 133 | 74     | 19                  | VS4      | 0.11      | <TS |
| 2755 | A  | 133 | 74     | 22                  | VS4      | 0.7       | <TS |
| 2756 | A  | 133 | 84     | 12                  | 08H      | -0.18     | <TS |
| 2757 | A  | 133 | 86     | 15                  | DBC      | -1.85     | <TS |
| 2758 | A  | 133 | 88     | 17                  | DBC      | 1.89      | <TS |
| 2759 | A  | 133 | 92     | 23                  | VS6      | 0.92      | <TS |
| 2760 | A  | 133 | 92     | 16                  | VS7      | 0         | <TS |
| 2761 | A  | 133 | 94     | 15                  | VS2      | 0.79      | <TS |
| 2762 | A  | 133 | 94     | 14                  | VS4      | -0.75     | <TS |
| 2763 | A  | 133 | 94     | 22                  | VS6      | -0.99     | <TS |
| 2764 | A  | 133 | 94     | 13                  | VS6      | 0.99      | <TS |
| 2765 | A  | 133 | 94     | 11                  | DBC      | -1.98     | <TS |
| 2766 | A  | 133 | 94     | 13                  | DBC      | 1.3       | <TS |
| 2767 | A  | 133 | 96     | 16                  | VS4      | -0.02     | <TS |
| 2768 | A  | 133 | 98     | 8                   | DBC      | 1.86      | <TS |
| 2769 | A  | 133 | 104    | 14                  | 05C      | 0.81      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2770 | A  | 133 | 104    | 11               | 05C      | 0.13      | <TS |
| 2771 | A  | 133 | 104    | 10               | 06C      | -0.29     | <TS |
| 2772 | A  | 133 | 104    | 11               | 07C      | 0.79      | <TS |
| 2773 | A  | 133 | 104    | 11               | 08C      | 0.79      | <TS |
| 2774 | A  | 133 | 104    | 10               | 08C      | -0.8      | <TS |
| 2775 | A  | 134 | 65     | 9                | 05H      | -0.09     | <TS |
| 2776 | A  | 134 | 65     | 10               | 06H      | 0.86      | <TS |
| 2777 | A  | 134 | 65     | 22               | 07H      | -0.15     | <TS |
| 2778 | A  | 134 | 65     | 13               | 08H      | 0.9       | <TS |
| 2779 | A  | 134 | 65     | 13               | DBH      | -1.69     | <TS |
| 2780 | A  | 134 | 65     | 12               | VS1      | 0.95      | <TS |
| 2781 | A  | 134 | 69     | 9                | VS6      | 0.97      | <TS |
| 2782 | A  | 134 | 69     | 18               | VS7      | 0.22      | <TS |
| 2783 | A  | 134 | 69     | 27               | VS7      | 0.77      | <TS |
| 2784 | A  | 134 | 71     | 20               | VS1      | 0.77      | <TS |
| 2785 | A  | 134 | 71     | 8                | VS1      | -0.9      | <TS |
| 2786 | A  | 134 | 71     | 16               | VS1      | 0.15      | <TS |
| 2787 | A  | 134 | 73     | 17               | VS6      | 0.94      | <TS |
| 2788 | A  | 134 | 87     | 10               | VS7      | 0.86      | <TS |
| 2789 | A  | 134 | 89     | 9                | DBC      | -1.99     | <TS |
| 2790 | A  | 134 | 91     | 33               | DBC      | 1.94      | <TS |
| 2791 | A  | 134 | 91     | 13               | VS6      | -0.11     | <TS |
| 2792 | A  | 134 | 91     | 15               | VS1      | 0.87      | <TS |
| 2793 | A  | 134 | 91     | 20               | VS6      | -0.74     | <TS |
| 2794 | A  | 134 | 91     | 14               | VS6      | 0.89      | <TS |
| 2795 | A  | 134 | 91     | 30               | VS7      | -0.87     | <TS |
| 2796 | A  | 134 | 95     | 28               | VS2      | 0         | <TS |
| 2797 | A  | 134 | 95     | 29               | VS4      | -0.95     | <TS |
| 2798 | A  | 134 | 95     | 13               | VS4      | 0.95      | <TS |
| 2799 | A  | 134 | 95     | 32               | VS6      | 0.95      | <TS |
| 2800 | A  | 134 | 95     | 38               | VS7      | 0.84      | <TS |
| 2801 | A  | 134 | 99     | 14               | 04C      | -0.93     | <TS |
| 2802 | A  | 134 | 103    | 13               | DBC      | -2        | <TS |
| 2803 | A  | 134 | 103    | 14               | 02C      | -0.88     | <TS |
| 2804 | A  | 135 | 68     | 12               | 07H      | 0.86      | <TS |
| 2805 | A  | 135 | 72     | 27               | VS1      | -0.95     | <TS |
| 2806 | A  | 135 | 72     | 14               | VS1      | 0.93      | <TS |
| 2807 | A  | 135 | 72     | 14               | VS7      | 0.77      | <TS |
| 2808 | A  | 135 | 74     | 16               | VS4      | -0.64     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4B Steam Generator E-50A Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2809 | A  | 135 | 76     | 18               | DBC      | 1.91      | <TS |
| 2810 | A  | 135 | 78     | 15               | VS1      | 0.96      | <TS |
| 2811 | A  | 135 | 78     | 11               | VS4      | 1.05      | <TS |
| 2812 | A  | 135 | 78     | 9                | VS4      | 0.07      | <TS |
| 2813 | A  | 135 | 78     | 37               | VS6      | 0.79      | <TS |
| 2814 | A  | 135 | 78     | 9                | VS7      | 0.76      | <TS |
| 2815 | A  | 135 | 78     | 23               | 08C      | -1.09     | <TS |
| 2816 | A  | 135 | 78     | 7                | 08C      | 0.83      | <TS |
| 2817 | A  | 135 | 82     | 15               | 08H      | 0.89      | <TS |
| 2818 | A  | 135 | 82     | 14               | VS4      | -0.81     | <TS |
| 2819 | A  | 135 | 82     | 11               | 08C      | -1.05     | <TS |
| 2820 | A  | 135 | 86     | 19               | VS4      | 0.92      | <TS |
| 2821 | A  | 135 | 86     | 16               | DBC      | -1.87     | <TS |
| 2822 | A  | 135 | 90     | 22               | 08C      | 0.85      | <TS |
| 2823 | A  | 135 | 94     | 11               | VS4      | 0.93      | <TS |
| 2824 | A  | 135 | 94     | 14               | VS6      | -0.79     | <TS |
| 2825 | A  | 135 | 94     | 22               | VS6      | 0.9       | <TS |
| 2826 | A  | 135 | 94     | 25               | VS7      | -0.71     | <TS |
| 2827 | A  | 135 | 94     | 26               | DBC      | -1.98     | <TS |
| 2828 | A  | 135 | 98     | 9                | 03C      | -0.95     | <TS |
| 2829 | A  | 135 | 100    | 34               | VS7      | -0.73     | <TS |
| 2830 | A  | 135 | 100    | 17               | DBC      | 1.7       | <TS |
| 2831 | A  | 135 | 100    | 17               | 04C      | -0.92     | <TS |
| 2832 | A  | 135 | 100    | 18               | 02C      | 0.86      | <TS |
| 2833 | A  | 135 | 100    | 19               | VS6      | -0.84     | <TS |
| 2834 | A  | 136 | 69     | 16               | VS7      | -0.86     | <TS |
| 2835 | A  | 136 | 69     | 11               | VS7      | 0.81      | <TS |
| 2836 | A  | 136 | 69     | 13               | DBC      | -1.78     | <TS |
| 2837 | A  | 136 | 69     | 11               | DBC      | 1.8       | <TS |
| 2838 | A  | 136 | 71     | 11               | 04H      | 0.87      | <TS |
| 2839 | A  | 136 | 79     | 14               | VS7      | -0.7      | <TS |
| 2840 | A  | 136 | 79     | 13               | VS7      | 0.89      | <TS |
| 2841 | A  | 136 | 79     | 12               | 08C      | -1.07     | <TS |
| 2842 | A  | 136 | 79     | 30               | 07C      | -0.2      | <TS |
| 2843 | A  | 136 | 79     | 12               | 07C      | -1.02     | <TS |
| 2844 | A  | 136 | 85     | 14               | 08H      | -1.18     | <TS |
| 2845 | A  | 136 | 85     | 8                | 07H      | 0.02      | <TS |
| 2846 | A  | 136 | 89     | 10               | DBC      | 1.57      | <TS |
| 2847 | A  | 136 | 91     | 11               | DBC      | 1.94      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2848 | A  | 136 | 91     | 9                | 04C      | -0.9      | <TS |
| 2849 | A  | 136 | 91     | 12               | 05C      | -1        | <TS |
| 2850 | A  | 136 | 91     | 12               | 05C      | 0.07      | <TS |
| 2851 | A  | 136 | 91     | 18               | 07C      | -0.94     | <TS |
| 2852 | A  | 136 | 91     | 21               | 08C      | -0.96     | <TS |
| 2853 | A  | 136 | 91     | 28               | 08C      | 0.81      | <TS |
| 2854 | A  | 136 | 91     | 10               | VS1      | 0.85      | <TS |
| 2855 | A  | 136 | 91     | 25               | 06C      | -0.7      | <TS |
| 2856 | A  | 136 | 93     | 14               | VS6      | 0.66      | <TS |
| 2857 | A  | 137 | 74     | 9                | VS1      | -0.71     | <TS |
| 2858 | A  | 137 | 74     | 23               | VS1      | 0.07      | <TS |
| 2859 | A  | 137 | 74     | 18               | VS1      | 0.86      | <TS |
| 2860 | A  | 137 | 74     | 12               | DBH      | 1.99      | <TS |
| 2861 | A  | 137 | 74     | 10               | 03H      | 0.91      | <TS |
| 2862 | A  | 137 | 76     | 26               | VS4      | -0.77     | <TS |
| 2863 | A  | 137 | 76     | 25               | VS4      | -0.09     | <TS |
| 2864 | A  | 137 | 76     | 8                | VS2      | -0.75     | <TS |
| 2865 | A  | 137 | 76     | 14               | VS2      | -0.07     | <TS |
| 2866 | A  | 137 | 76     | 12               | VS6      | -0.04     | <TS |
| 2867 | A  | 137 | 78     | 10               | 08C      | 0.79      | <TS |
| 2868 | A  | 137 | 78     | 19               | VS4      | -0.77     | <TS |
| 2869 | A  | 137 | 78     | 21               | VS4      | 0.99      | <TS |
| 2870 | A  | 137 | 78     | 14               | VS7      | 0.77      | <TS |
| 2871 | A  | 137 | 80     | 26               | VS7      | 0.86      | <TS |
| 2872 | A  | 137 | 80     | 16               | VS7      | 0.2       | <TS |
| 2873 | A  | 137 | 80     | 18               | VS6      | -0.92     | <TS |
| 2874 | A  | 137 | 82     | 10               | 08C      | -1.05     | <TS |
| 2875 | A  | 137 | 88     | 16               | VS6      | -0.11     | <TS |
| 2876 | A  | 137 | 88     | 12               | VS6      | -0.73     | <TS |
| 2877 | A  | 137 | 88     | 13               | VS4      | -0.68     | <TS |
| 2878 | A  | 137 | 90     | 15               | DBC      | 0.88      | <TS |
| 2879 | A  | 137 | 90     | 14               | 05H      | -0.8      | <TS |
| 2880 | A  | 137 | 92     | 16               | 02C      | 0.83      | <TS |
| 2881 | A  | 137 | 92     | 8                | 03C      | 0.79      | <TS |
| 2882 | A  | 137 | 92     | 15               | 04C      | 0.79      | <TS |
| 2883 | A  | 137 | 92     | 28               | 05C      | 0.02      | <TS |
| 2884 | A  | 137 | 92     | 11               | 06C      | -0.92     | <TS |
| 2885 | A  | 137 | 92     | 17               | 07C      | -0.94     | <TS |
| 2886 | A  | 137 | 92     | 17               | 08C      | -0.94     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4B Steam Generator E-50A Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2887 | A  | 137 | 92     | 27               | 08C      | 0.81      | <TS |
| 2888 | A  | 137 | 92     | 16               | VS6      | 0.92      | <TS |
| 2889 | A  | 137 | 92     | 27               | VS6      | -0.07     | <TS |
| 2890 | A  | 137 | 92     | 35               | VS6      | -0.81     | <TS |
| 2891 | A  | 138 | 75     | 12               | 07H      | 0.88      | <TS |
| 2892 | A  | 138 | 75     | 28               | DBH      | 1.85      | <TS |
| 2893 | A  | 138 | 75     | 15               | 08C      | 0.04      | <TS |
| 2894 | A  | 138 | 75     | 10               | 07C      | 0.79      | <TS |
| 2895 | A  | 138 | 75     | 10               | 08C      | -1.03     | <TS |
| 2896 | A  | 138 | 81     | 9                | 08H      | -0.18     | <TS |
| 2897 | A  | 138 | 81     | 14               | 08H      | 0.79      | <TS |
| 2898 | A  | 138 | 81     | 29               | DBH      | 2         | <TS |
| 2899 | A  | 138 | 81     | 11               | VS1      | -0.99     | <TS |
| 2900 | A  | 138 | 81     | 9                | VS1      | 0.92      | <TS |
| 2901 | A  | 138 | 81     | 10               | VS2      | -0.07     | <TS |
| 2902 | A  | 138 | 81     | 15               | VS4      | -1.1      | <TS |
| 2903 | A  | 138 | 81     | 19               | VS4      | 0.96      | <TS |
| 2904 | A  | 138 | 81     | 35               | VS6      | -0.94     | <TS |
| 2905 | A  | 138 | 81     | 28               | VS6      | 0.99      | <TS |
| 2906 | A  | 138 | 81     | 17               | VS7      | -0.02     | <TS |
| 2907 | A  | 138 | 81     | 16               | VS7      | 0.96      | <TS |
| 2908 | A  | 138 | 81     | 18               | 08C      | -0.99     | <TS |
| 2909 | A  | 138 | 83     | 13               | 08H      | -1.08     | <TS |
| 2910 | A  | 138 | 83     | 5                | 08H      | -0.04     | <TS |
| 2911 | A  | 138 | 83     | 11               | VS1      | -0.75     | <TS |
| 2912 | A  | 138 | 83     | 23               | DBH      | 2         | <TS |
| 2913 | A  | 138 | 85     | 16               | DBC      | -1.67     | <TS |
| 2914 | A  | 138 | 85     | 13               | 08C      | -0.24     | <TS |
| 2915 | A  | 138 | 85     | 26               | VS7      | 0.81      | <TS |
| 2916 | A  | 138 | 85     | 13               | VS6      | 0.83      | <TS |
| 2917 | A  | 138 | 85     | 13               | 08H      | -1.08     | <TS |
| 2918 | A  | 138 | 85     | 9                | 08C      | 0.86      | <TS |
| 2919 | A  | 138 | 87     | 12               | 08C      | 0.77      | <TS |
| 2920 | A  | 138 | 89     | 16               | VS1      | 0.96      | <TS |
|      |    |     |        |                  |          |           |     |
|      |    |     |        |                  |          |           |     |
|      |    |     |        |                  |          |           |     |
|      |    |     |        |                  |          |           |     |
|      |    |     |        |                  |          |           |     |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|----|----|-----|--------|---------------------|----------|-----------|-----|
| 1  | B  | 1   | 10     | 14                  | 03C      | -0.21     | <TS |
| 2  | B  | 1   | 28     | 18                  | 02C      | 0.87      | <TS |
| 3  | B  | 1   | 36     | 15                  | 03C      | 0.86      | <TS |
| 4  | B  | 1   | 124    | 13                  | 02C      | 0.81      | <TS |
| 5  | B  | 1   | 130    | 11                  | 03C      | 0.83      | <TS |
| 6  | B  | 1   | 150    | 23                  | 01C      | -0.7      | <TS |
| 7  | B  | 1   | 158    | 18                  | 02C      | 0.86      | <TS |
| 8  | B  | 1   | 160    | 13                  | 03C      | -0.15     | <TS |
| 9  | B  | 1   | 160    | 15                  | 04H      | 0.86      | <TS |
| 10 | B  | 1   | 160    | 11                  | 04H      | -0.21     | <TS |
| 11 | B  | 1   | 164    | 18                  | 02C      | -0.87     | <TS |
| 12 | B  | 2   | 11     | 12                  | 02C      | 0.83      | <TS |
| 13 | B  | 2   | 141    | 14                  | 03H      | -0.87     | <TS |
| 14 | B  | 2   | 143    | 12                  | 02C      | 0.84      | <TS |
| 15 | B  | 2   | 163    | 11                  | 02H      | 0.91      | <TS |
| 16 | B  | 2   | 165    | 18                  | 01C      | 0.77      | <TS |
| 17 | B  | 3   | 2      | 11                  | 03H      | 0.85      | <TS |
| 18 | B  | 3   | 6      | 19                  | 02C      | 0.8       | <TS |
| 19 | B  | 3   | 6      | 14                  | 02C      | -0.8      | <TS |
| 20 | B  | 3   | 36     | 17                  | 03C      | 0.85      | <TS |
| 21 | B  | 3   | 42     | 22                  | 03C      | 0.83      | <TS |
| 22 | B  | 3   | 162    | 12                  | 02H      | -0.28     | <TS |
| 23 | B  | 4   | 125    | 12                  | 04C      | -0.87     | <TS |
| 24 | B  | 4   | 133    | 12                  | 04C      | -0.85     | <TS |
| 25 | B  | 4   | 165    | 16                  | 02C      | 0.88      | <TS |
| 26 | B  | 4   | 165    | 11                  | 02C      | -0.91     | <TS |
| 27 | B  | 5   | 138    | 14                  | 02H      | -0.94     | <TS |
| 28 | B  | 6   | 23     | 13                  | 04C      | 0.89      | <TS |
| 29 | B  | 6   | 137    | 12                  | 04C      | -0.96     | <TS |
| 30 | B  | 6   | 165    | 21                  | 02C      | -1.12     | <TS |
| 31 | B  | 7   | 2      | 13                  | 05H      | 0.96      | <TS |
| 32 | B  | 7   | 26     | 12                  | 01C      | -0.82     | <TS |
| 33 | B  | 7   | 140    | 14                  | 04C      | 0.93      | <TS |
| 34 | B  | 8   | 3      | 14                  | 03C      | -0.17     | <TS |
| 35 | B  | 8   | 33     | 11                  | 03H      | -0.91     | <TS |
| 36 | B  | 8   | 129    | 12                  | 04C      | -0.92     | <TS |
| 37 | B  | 8   | 159    | 11                  | 04C      | 0.8       | <TS |
| 38 | B  | 8   | 159    | 8                   | 04C      | -0.13     | <TS |
| 39 | B  | 8   | 161    | 13                  | 03H      | 0.87      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|----|----|-----|--------|------------------|----------|-----------|-----|
| 40 | B  | 8   | 161    | 14               | 04H      | 0.88      | <TS |
| 41 | B  | 8   | 165    | 16               | 02C      | -1.06     | <TS |
| 42 | B  | 9   | 2      | 10               | 03C      | -0.13     | <TS |
| 43 | B  | 9   | 46     | 17               | DBH      | 0.57      | <TS |
| 44 | B  | 9   | 140    | 14               | 03C      | 0.87      | <TS |
| 45 | B  | 10  | 133    | 15               | 04C      | -1.01     | <TS |
| 46 | B  | 10  | 133    | 13               | 02C      | 0.87      | <TS |
| 47 | B  | 10  | 165    | 16               | 02H      | 0.88      | <TS |
| 48 | B  | 11  | 2      | 15               | 02H      | 0.88      | <TS |
| 49 | B  | 11  | 32     | 11               | 04C      | -0.9      | <TS |
| 50 | B  | 11  | 32     | 11               | DBH      | -1.94     | <TS |
| 51 | B  | 11  | 32     | 10               | 05H      | 0.94      | <TS |
| 52 | B  | 11  | 112    | 9                | DBC      | 1.61      | <TS |
| 53 | B  | 11  | 136    | 12               | 02C      | -0.19     | <TS |
| 54 | B  | 11  | 164    | 25               | 04C      | 0.77      | <TS |
| 55 | B  | 11  | 164    | 23               | 02C      | -0.94     | <TS |
| 56 | B  | 12  | 3      | 15               | 03C      | -0.89     | <TS |
| 57 | B  | 12  | 3      | 11               | 02C      | 0.83      | <TS |
| 58 | B  | 13  | 2      | 11               | 04C      | -0.13     | <TS |
| 59 | B  | 13  | 4      | 16               | 02H      | -0.84     | <TS |
| 60 | B  | 13  | 6      | 14               | 03C      | 0.83      | <TS |
| 61 | B  | 13  | 8      | 12               | 03C      | -0.91     | <TS |
| 62 | B  | 13  | 12     | 13               | 02C      | -0.89     | <TS |
| 63 | B  | 13  | 56     | 13               | 04H      | 0.9       | <TS |
| 64 | B  | 13  | 62     | 16               | 05C      | -0.96     | <TS |
| 65 | B  | 13  | 140    | 16               | 02H      | 0.88      | <TS |
| 66 | B  | 14  | 37     | 9                | DBH      | 1.93      | <TS |
| 67 | B  | 14  | 57     | 12               | 03H      | 0.89      | <TS |
| 68 | B  | 14  | 57     | 19               | DBC      | -1.11     | <TS |
| 69 | B  | 14  | 61     | 10               | 02H      | 0.87      | <TS |
| 70 | B  | 14  | 121    | 10               | 05C      | 0.89      | <TS |
| 71 | B  | 14  | 137    | 11               | 03H      | 0.96      | <TS |
| 72 | B  | 14  | 157    | 14               | 02C      | 0.76      | <TS |
| 73 | B  | 15  | 32     | 11               | 03H      | 0.12      | <TS |
| 74 | B  | 15  | 130    | 24               | 05C      | -0.9      | <TS |
| 75 | B  | 15  | 154    | 19               | 04H      | 0.91      | <TS |
| 76 | B  | 15  | 162    | 8                | DBC      | -1.52     | <TS |
| 77 | B  | 15  | 164    | 16               | 02H      | 0.86      | <TS |
| 78 | B  | 15  | 164    | 13               | 02C      | 0.84      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 79  | B  | 16  | 3      | 11                  | 02C      | 0.08      | <TS |
| 80  | B  | 16  | 37     | 11                  | 05C      | -0.22     | <TS |
| 81  | B  | 16  | 55     | 10                  | DBH      | -1.69     | <TS |
| 82  | B  | 16  | 131    | 11                  | 03C      | 0.87      | <TS |
| 83  | B  | 16  | 145    | 11                  | 04C      | -0.91     | <TS |
| 84  | B  | 17  | 2      | 12                  | 03C      | 0.83      | <TS |
| 85  | B  | 17  | 2      | 7                   | 03C      | -0.88     | <TS |
| 86  | B  | 17  | 36     | 13                  | 04H      | -0.9      | <TS |
| 87  | B  | 17  | 60     | 12                  | 02C      | 0.89      | <TS |
| 88  | B  | 17  | 62     | 12                  | 01C      | -0.96     | <TS |
| 89  | B  | 17  | 62     | 8                   | DBH      | 1.34      | <TS |
| 90  | B  | 17  | 144    | 13                  | 03H      | 0.94      | <TS |
| 91  | B  | 17  | 152    | 12                  | 02H      | 0.9       | <TS |
| 92  | B  | 18  | 5      | 11                  | 03C      | -0.13     | <TS |
| 93  | B  | 18  | 137    | 18                  | VS4      | 0.89      | <TS |
| 94  | B  | 18  | 141    | 13                  | 03C      | -0.96     | <TS |
| 95  | B  | 19  | 60     | 11                  | 03H      | -0.9      | <TS |
| 96  | B  | 19  | 138    | 15                  | 03C      | -0.9      | <TS |
| 97  | B  | 19  | 156    | 13                  | 04C      | 0.77      | <TS |
| 98  | B  | 19  | 164    | 27                  | 02C      | 0.86      | <TS |
| 99  | B  | 20  | 161    | 17                  | 02C      | 0.82      | <TS |
| 100 | B  | 21  | 4      | 12                  | 03C      | 0.85      | <TS |
| 101 | B  | 21  | 8      | 14                  | 03C      | -0.85     | <TS |
| 102 | B  | 21  | 58     | 16                  | 02C      | 0.87      | <TS |
| 103 | B  | 21  | 64     | 16                  | DBC      | -1.7      | <TS |
| 104 | B  | 21  | 164    | 8                   | 02C      | -0.17     | <TS |
| 105 | B  | 22  | 11     | 13                  | 02C      | 0.92      | <TS |
| 106 | B  | 22  | 115    | 9                   | 04C      | -0.86     | <TS |
| 107 | B  | 22  | 133    | 20                  | VS4      | 0.84      | <TS |
| 108 | B  | 22  | 133    | 6                   | VS4      | -0.78     | <TS |
| 109 | B  | 22  | 163    | 17                  | 02C      | 0.83      | <TS |
| 110 | B  | 23  | 106    | 11                  | VS4      | -0.9      | <TS |
| 111 | B  | 23  | 160    | 13                  | 03C      | -0.9      | <TS |
| 112 | B  | 23  | 160    | 12                  | 02C      | -0.18     | <TS |
| 113 | B  | 23  | 160    | 10                  | 02C      | -0.94     | <TS |
| 114 | B  | 24  | 7      | 15                  | DBH      | 1.66      | <TS |
| 115 | B  | 24  | 53     | 13                  | 02C      | 0.88      | <TS |
| 116 | B  | 25  | 6      | 14                  | 04H      | 0.83      | <TS |
| 117 | B  | 25  | 6      | 12                  | 02C      | -0.81     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 118 | B  | 25  | 36     | 8                   | 04H      | -0.88     | <TS |
| 119 | B  | 25  | 40     | 10                  | 04H      | -0.85     | <TS |
| 120 | B  | 25  | 52     | 13                  | 03H      | -0.86     | <TS |
| 121 | B  | 25  | 58     | 13                  | 02C      | -0.86     | <TS |
| 122 | B  | 25  | 64     | 17                  | DBH      | -1.9      | <TS |
| 123 | B  | 25  | 136    | 13                  | VS4      | 0.83      | <TS |
| 124 | B  | 25  | 148    | 19                  | 02H      | 1.07      | <TS |
| 125 | B  | 27  | 26     | 14                  | 05H      | 0.92      | <TS |
| 126 | B  | 27  | 64     | 17                  | DBH      | -2        | <TS |
| 127 | B  | 27  | 64     | 12                  | 05H      | -0.06     | <TS |
| 128 | B  | 27  | 64     | 12                  | VS4      | 0.13      | <TS |
| 129 | B  | 28  | 3      | 13                  | VS4      | -0.9      | <TS |
| 130 | B  | 28  | 39     | 21                  | VS4      | 0.97      | <TS |
| 131 | B  | 28  | 63     | 8                   | VS4      | 0.53      | <TS |
| 132 | B  | 29  | 44     | 7                   | VS4      | -0.13     | <TS |
| 133 | B  | 29  | 58     | 10                  | VS4      | -0.11     | <TS |
| 134 | B  | 29  | 120    | 19                  | 03H      | 0.94      | <TS |
| 135 | B  | 29  | 156    | 17                  | 03C      | -0.99     | <TS |
| 136 | B  | 29  | 156    | 11                  | 02H      | 0.94      | <TS |
| 137 | B  | 30  | 5      | 11                  | 02H      | -0.19     | <TS |
| 138 | B  | 30  | 7      | 12                  | 03C      | 0.79      | <TS |
| 139 | B  | 30  | 7      | 7                   | 03C      | 0.06      | <TS |
| 140 | B  | 30  | 9      | 13                  | 02C      | 0.83      | <TS |
| 141 | B  | 30  | 45     | 15                  | VS4      | 0.88      | <TS |
| 142 | B  | 30  | 47     | 12                  | VS4      | 0.97      | <TS |
| 143 | B  | 30  | 51     | 12                  | 02H      | 0.84      | <TS |
| 144 | B  | 30  | 53     | 14                  | 02C      | 0.88      | <TS |
| 145 | B  | 30  | 57     | 11                  | 03C      | -0.88     | <TS |
| 146 | B  | 30  | 111    | 10                  | 03C      | -0.91     | <TS |
| 147 | B  | 30  | 115    | 13                  | 02H      | 0.84      | <TS |
| 148 | B  | 30  | 127    | 11                  | 05C      | 0.92      | <TS |
| 149 | B  | 31  | 4      | 14                  | 03C      | -0.89     | <TS |
| 150 | B  | 31  | 4      | 16                  | 02C      | -0.79     | <TS |
| 151 | B  | 31  | 4      | 10                  | 03C      | 0.07      | <TS |
| 152 | B  | 31  | 14     | 13                  | 05H      | -1.06     | <TS |
| 153 | B  | 31  | 46     | 13                  | 03C      | 0.86      | <TS |
| 154 | B  | 31  | 50     | 12                  | 03C      | 0.84      | <TS |
| 155 | B  | 31  | 160    | 12                  | 03C      | 1.02      | <TS |
| 156 | B  | 31  | 160    | 15                  | 02C      | 0.88      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 157 | B  | 32  | 5      | 13                  | 04H      | 0.82      | <TS |
| 158 | B  | 32  | 5      | 15                  | 02C      | 0.77      | <TS |
| 159 | B  | 32  | 7      | 11                  | 02H      | 0.93      | <TS |
| 160 | B  | 32  | 13     | 16                  | 03C      | 0.87      | <TS |
| 161 | B  | 32  | 45     | 13                  | 02H      | 0.85      | <TS |
| 162 | B  | 32  | 45     | 13                  | 03H      | 0.89      | <TS |
| 163 | B  | 32  | 109    | 12                  | 04C      | 0.85      | <TS |
| 164 | B  | 32  | 151    | 19                  | VS4      | 0.98      | <TS |
| 165 | B  | 32  | 157    | 17                  | DBH      | 1.41      | <TS |
| 166 | B  | 33  | 4      | 13                  | 01C      | -0.9      | <TS |
| 167 | B  | 33  | 12     | 12                  | VS4      | 0.86      | <TS |
| 168 | B  | 33  | 32     | 12                  | 04H      | 0.96      | <TS |
| 169 | B  | 33  | 52     | 13                  | 03C      | 0.84      | <TS |
| 170 | B  | 33  | 54     | 13                  | 03C      | -0.9      | <TS |
| 171 | B  | 33  | 150    | 15                  | 02H      | 0.72      | <TS |
| 172 | B  | 33  | 158    | 17                  | 02C      | 0.81      | <TS |
| 173 | B  | 33  | 160    | 12                  | 02C      | -0.86     | <TS |
| 174 | B  | 33  | 162    | 16                  | 03C      | 0.87      | <TS |
| 175 | B  | 33  | 162    | 16                  | 02C      | -0.92     | <TS |
| 176 | B  | 34  | 11     | 14                  | DBC      | -1.19     | <TS |
| 177 | B  | 34  | 11     | 13                  | VS4      | 0.66      | <TS |
| 178 | B  | 34  | 17     | 15                  | VS4      | -0.4      | <TS |
| 179 | B  | 34  | 31     | 19                  | VS4      | 0.53      | <TS |
| 180 | B  | 34  | 43     | 11                  | 03H      | 0.89      | <TS |
| 181 | B  | 34  | 47     | 11                  | 03H      | -0.82     | <TS |
| 182 | B  | 34  | 59     | 13                  | 03H      | -0.97     | <TS |
| 183 | B  | 34  | 103    | 13                  | 04H      | -0.88     | <TS |
| 184 | B  | 34  | 109    | 7                   | 03C      | 0.89      | <TS |
| 185 | B  | 34  | 113    | 15                  | 01C      | 0.8       | <TS |
| 186 | B  | 34  | 133    | 18                  | 03C      | 0.92      | <TS |
| 187 | B  | 34  | 161    | 14                  | 02C      | 0.85      | <TS |
| 188 | B  | 35  | 4      | 15                  | 01C      | -0.88     | <TS |
| 189 | B  | 35  | 4      | 11                  | DBC      | -0.15     | <TS |
| 190 | B  | 35  | 4      | 29                  | DBC      | 2         | <TS |
| 191 | B  | 35  | 6      | 11                  | 01H      | -0.91     | <TS |
| 192 | B  | 35  | 6      | 15                  | 05C      | -0.44     | <TS |
| 193 | B  | 35  | 6      | 14                  | 03C      | 0.85      | <TS |
| 194 | B  | 35  | 36     | 12                  | 03H      | 0.83      | <TS |
| 195 | B  | 35  | 36     | 20                  | VS4      | 0.6       | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 196 | B  | 35  | 42     | 18                  | 05H      | 0.98      | <TS |
| 197 | B  | 35  | 46     | 12                  | 03H      | -0.8      | <TS |
| 198 | B  | 35  | 46     | 14                  | 03H      | 0.83      | <TS |
| 199 | B  | 35  | 46     | 13                  | 03C      | 0.86      | <TS |
| 200 | B  | 35  | 48     | 10                  | 05H      | -0.85     | <TS |
| 201 | B  | 35  | 52     | 20                  | DBC      | 1.22      | <TS |
| 202 | B  | 35  | 52     | 19                  | 05C      | 0.84      | <TS |
| 203 | B  | 35  | 56     | 14                  | 03H      | -0.81     | <TS |
| 204 | B  | 35  | 60     | 11                  | 03H      | -0.85     | <TS |
| 205 | B  | 35  | 64     | 14                  | 05H      | 1.01      | <TS |
| 206 | B  | 36  | 5      | 9                   | 03C      | 0.06      | <TS |
| 207 | B  | 36  | 5      | 20                  | 03C      | 0.71      | <TS |
| 208 | B  | 36  | 41     | 14                  | 03H      | -0.85     | <TS |
| 209 | B  | 36  | 45     | 21                  | VS4      | -0.71     | <TS |
| 210 | B  | 36  | 45     | 12                  | VS4      | 0.75      | <TS |
| 211 | B  | 36  | 49     | 11                  | 04H      | 0.89      | <TS |
| 212 | B  | 36  | 49     | 16                  | VS4      | 0.22      | <TS |
| 213 | B  | 36  | 51     | 10                  | VS4      | -0.69     | <TS |
| 214 | B  | 36  | 51     | 16                  | VS4      | 0.75      | <TS |
| 215 | B  | 36  | 109    | 8                   | 04C      | 0.87      | <TS |
| 216 | B  | 36  | 113    | 9                   | 03C      | 0.07      | <TS |
| 217 | B  | 36  | 113    | 16                  | 03C      | 0.83      | <TS |
| 218 | B  | 36  | 119    | 13                  | 03C      | -0.85     | <TS |
| 219 | B  | 36  | 149    | 20                  | VS4      | -0.89     | <TS |
| 220 | B  | 36  | 149    | 11                  | VS4      | 0.02      | <TS |
| 221 | B  | 36  | 157    | 19                  | 02C      | -0.85     | <TS |
| 222 | B  | 36  | 161    | 15                  | 02H      | 0.97      | <TS |
| 223 | B  | 36  | 161    | 13                  | 04C      | -0.15     | <TS |
| 224 | B  | 37  | 6      | 16                  | 01H      | -0.79     | <TS |
| 225 | B  | 37  | 6      | 17                  | 03H      | 0.87      | <TS |
| 226 | B  | 37  | 6      | 14                  | 02C      | -0.13     | <TS |
| 227 | B  | 37  | 6      | 13                  | 02C      | -0.88     | <TS |
| 228 | B  | 37  | 10     | 8                   | 03C      | -0.13     | <TS |
| 229 | B  | 37  | 10     | 18                  | 03C      | -0.97     | <TS |
| 230 | B  | 37  | 32     | 11                  | 03H      | 0.94      | <TS |
| 231 | B  | 37  | 36     | 9                   | 03H      | -0.83     | <TS |
| 232 | B  | 37  | 46     | 10                  | 04H      | -0.87     | <TS |
| 233 | B  | 37  | 48     | 13                  | 02H      | -0.8      | <TS |
| 234 | B  | 37  | 50     | 13                  | 02H      | -0.89     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 235 | B  | 37  | 54     | 15                  | 02H      | 0.86      | <TS |
| 236 | B  | 37  | 54     | 13                  | 04C      | 0.9       | <TS |
| 237 | B  | 37  | 112    | 11                  | 02C      | -0.94     | <TS |
| 238 | B  | 37  | 122    | 27                  | VS4      | -0.91     | <TS |
| 239 | B  | 37  | 124    | 22                  | VS4      | 0.76      | <TS |
| 240 | B  | 37  | 124    | 20                  | VS4      | -0.81     | <TS |
| 241 | B  | 37  | 128    | 20                  | VS4      | 0.92      | <TS |
| 242 | B  | 37  | 128    | 18                  | VS4      | -0.84     | <TS |
| 243 | B  | 37  | 148    | 27                  | VS4      | -0.93     | <TS |
| 244 | B  | 37  | 150    | 14                  | 05H      | 0.92      | <TS |
| 245 | B  | 37  | 156    | 18                  | VS4      | 0.84      | <TS |
| 246 | B  | 37  | 156    | 16                  | VS4      | -0.91     | <TS |
| 247 | B  | 37  | 160    | 13                  | 02H      | 0.82      | <TS |
| 248 | B  | 37  | 160    | 23                  | VS4      | 0.86      | <TS |
| 249 | B  | 37  | 160    | 11                  | VS4      | -0.45     | <TS |
| 250 | B  | 38  | 5      | 13                  | 02C      | -0.77     | <TS |
| 251 | B  | 38  | 9      | 9                   | 03C      | -1.05     | <TS |
| 252 | B  | 38  | 9      | 7                   | 03C      | -0.2      | <TS |
| 253 | B  | 38  | 13     | 18                  | VS4      | 0.62      | <TS |
| 254 | B  | 38  | 39     | 15                  | 02H      | 0.94      | <TS |
| 255 | B  | 38  | 45     | 18                  | 02C      | 0.17      | <TS |
| 256 | B  | 38  | 45     | 11                  | 01C      | 0.81      | <TS |
| 257 | B  | 38  | 47     | 11                  | 04C      | 0.89      | <TS |
| 258 | B  | 38  | 47     | 10                  | 01C      | -0.22     | <TS |
| 259 | B  | 38  | 49     | 21                  | VS4      | 0.07      | <TS |
| 260 | B  | 38  | 49     | 25                  | VS4      | 0.6       | <TS |
| 261 | B  | 38  | 49     | 12                  | 02H      | -0.86     | <TS |
| 262 | B  | 38  | 51     | 17                  | VS4      | -0.62     | <TS |
| 263 | B  | 38  | 51     | 11                  | 02C      | 0.92      | <TS |
| 264 | B  | 38  | 53     | 16                  | 03H      | -1        | <TS |
| 265 | B  | 38  | 53     | 22                  | VS4      | 0.02      | <TS |
| 266 | B  | 38  | 53     | 17                  | VS4      | 0.82      | <TS |
| 267 | B  | 38  | 107    | 15                  | 02C      | 0.82      | <TS |
| 268 | B  | 38  | 109    | 18                  | VS4      | -0.68     | <TS |
| 269 | B  | 38  | 111    | 9                   | 04C      | -0.82     | <TS |
| 270 | B  | 38  | 115    | 11                  | 04C      | 0.81      | <TS |
| 271 | B  | 38  | 125    | 34                  | VS4      | 0.92      | <TS |
| 272 | B  | 38  | 125    | 9                   | VS4      | 0.22      | <TS |
| 273 | B  | 38  | 125    | 12                  | VS4      | -0.88     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 274 | B  | 38  | 127    | 14                  | 02C      | -0.92     | <TS |
| 275 | B  | 38  | 127    | 7                   | 04C      | 0.13      | <TS |
| 276 | B  | 38  | 127    | 26                  | VS4      | 0.87      | <TS |
| 277 | B  | 38  | 131    | 20                  | VS4      | 0.89      | <TS |
| 278 | B  | 38  | 131    | 12                  | VS4      | -0.9      | <TS |
| 279 | B  | 38  | 133    | 14                  | VS4      | -0.83     | <TS |
| 280 | B  | 38  | 135    | 18                  | VS4      | 0.31      | <TS |
| 281 | B  | 38  | 145    | 19                  | VS4      | 0.94      | <TS |
| 282 | B  | 38  | 147    | 27                  | VS4      | -0.84     | <TS |
| 283 | B  | 38  | 147    | 17                  | VS4      | 0.89      | <TS |
| 284 | B  | 38  | 161    | 22                  | 02H      | 0.88      | <TS |
| 285 | B  | 38  | 161    | 9                   | DBH      | 1.55      | <TS |
| 286 | B  | 39  | 6      | 14                  | 05H      | 0.88      | <TS |
| 287 | B  | 39  | 6      | 15                  | 02C      | -0.57     | <TS |
| 288 | B  | 39  | 6      | 12                  | 02C      | 0.94      | <TS |
| 289 | B  | 39  | 8      | 12                  | 03C      | 0.81      | <TS |
| 290 | B  | 39  | 8      | 15                  | 03C      | -0.99     | <TS |
| 291 | B  | 39  | 10     | 17                  | 03C      | 0.83      | <TS |
| 292 | B  | 39  | 12     | 18                  | VS4      | -0.57     | <TS |
| 293 | B  | 39  | 22     | 14                  | DBC      | 1.2       | <TS |
| 294 | B  | 39  | 50     | 11                  | VS4      | -0.51     | <TS |
| 295 | B  | 39  | 50     | 8                   | VS4      | 0.18      | <TS |
| 296 | B  | 39  | 52     | 14                  | 03H      | -0.91     | <TS |
| 297 | B  | 39  | 102    | 18                  | VS4      | -0.68     | <TS |
| 298 | B  | 39  | 108    | 10                  | DBH      | -1.61     | <TS |
| 299 | B  | 39  | 116    | 18                  | VS4      | -0.84     | <TS |
| 300 | B  | 39  | 116    | 33                  | VS4      | 0.83      | <TS |
| 301 | B  | 39  | 120    | 19                  | VS4      | 0.89      | <TS |
| 302 | B  | 39  | 120    | 10                  | VS4      | -0.84     | <TS |
| 303 | B  | 39  | 122    | 15                  | 02C      | -0.85     | <TS |
| 304 | B  | 39  | 122    | 13                  | VS4      | 0.73      | <TS |
| 305 | B  | 39  | 134    | 12                  | VS4      | 0.74      | <TS |
| 306 | B  | 39  | 134    | 17                  | VS4      | -0.88     | <TS |
| 307 | B  | 39  | 146    | 12                  | DBC      | 1.79      | <TS |
| 308 | B  | 39  | 150    | 20                  | VS4      | 0.83      | <TS |
| 309 | B  | 39  | 150    | 17                  | VS4      | 0.07      | <TS |
| 310 | B  | 39  | 160    | 17                  | 02H      | 0.9       | <TS |
| 311 | B  | 40  | 5      | 16                  | 02C      | -0.88     | <TS |
| 312 | B  | 40  | 25     | 8                   | 05H      | -0.85     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 313 | B  | 40  | 31     | 14                  | 03H      | 0.85      | <TS |
| 314 | B  | 40  | 31     | 15                  | VS4      | 0.73      | <TS |
| 315 | B  | 40  | 33     | 12                  | VS4      | 0.24      | <TS |
| 316 | B  | 40  | 35     | 10                  | 04H      | -0.13     | <TS |
| 317 | B  | 40  | 39     | 14                  | 04H      | -0.94     | <TS |
| 318 | B  | 40  | 41     | 11                  | 04H      | 0.85      | <TS |
| 319 | B  | 40  | 51     | 14                  | 01H      | 0.93      | <TS |
| 320 | B  | 40  | 55     | 10                  | 03H      | -0.85     | <TS |
| 321 | B  | 40  | 115    | 12                  | 03C      | 0.81      | <TS |
| 322 | B  | 40  | 115    | 12                  | 04C      | 0.88      | <TS |
| 323 | B  | 40  | 117    | 19                  | 03C      | 0.83      | <TS |
| 324 | B  | 40  | 121    | 27                  | VS4      | 0.83      | <TS |
| 325 | B  | 40  | 121    | 20                  | VS4      | -0.74     | <TS |
| 326 | B  | 40  | 123    | 19                  | VS4      | 0.81      | <TS |
| 327 | B  | 40  | 123    | 12                  | 03C      | -0.9      | <TS |
| 328 | B  | 40  | 125    | 19                  | 02C      | -0.83     | <TS |
| 329 | B  | 40  | 129    | 14                  | 04C      | -0.91     | <TS |
| 330 | B  | 40  | 143    | 18                  | 05H      | 1.01      | <TS |
| 331 | B  | 41  | 6      | 11                  | 01C      | 0.86      | <TS |
| 332 | B  | 41  | 6      | 9                   | 01C      | -1.08     | <TS |
| 333 | B  | 41  | 8      | 19                  | 04C      | 0.82      | <TS |
| 334 | B  | 41  | 12     | 9                   | VS4      | -0.87     | <TS |
| 335 | B  | 41  | 12     | 13                  | VS4      | -0.11     | <TS |
| 336 | B  | 41  | 12     | 21                  | VS4      | 0.75      | <TS |
| 337 | B  | 41  | 12     | 16                  | 05C      | 0.02      | <TS |
| 338 | B  | 41  | 14     | 21                  | VS4      | 0.26      | <TS |
| 339 | B  | 41  | 14     | 16                  | VS4      | 0.75      | <TS |
| 340 | B  | 41  | 28     | 13                  | 05H      | 0.96      | <TS |
| 341 | B  | 41  | 32     | 9                   | VS4      | 0.75      | <TS |
| 342 | B  | 41  | 32     | 18                  | VS4      | -0.07     | <TS |
| 343 | B  | 41  | 34     | 11                  | 04H      | 0.92      | <TS |
| 344 | B  | 41  | 36     | 12                  | 03H      | -0.49     | <TS |
| 345 | B  | 41  | 40     | 8                   | 02C      | -0.18     | <TS |
| 346 | B  | 41  | 48     | 11                  | 03H      | 0.94      | <TS |
| 347 | B  | 41  | 48     | 12                  | VS4      | -0.88     | <TS |
| 348 | B  | 41  | 54     | 19                  | VS4      | -0.77     | <TS |
| 349 | B  | 41  | 54     | 31                  | VS4      | 0.86      | <TS |
| 350 | B  | 41  | 56     | 14                  | 02H      | 0.94      | <TS |
| 351 | B  | 41  | 60     | 13                  | 03H      | -0.86     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 352 | B  | 41  | 120    | 20                  | 05C      | -0.92     | <TS |
| 353 | B  | 41  | 120    | 9                   | 05C      | 0.55      | <TS |
| 354 | B  | 41  | 122    | 15                  | VS4      | -0.84     | <TS |
| 355 | B  | 41  | 122    | 16                  | VS4      | 0.77      | <TS |
| 356 | B  | 41  | 128    | 7                   | 04C      | -0.15     | <TS |
| 357 | B  | 41  | 128    | 14                  | 04C      | -1.03     | <TS |
| 358 | B  | 41  | 130    | 11                  | 05C      | -0.88     | <TS |
| 359 | B  | 41  | 132    | 20                  | VS4      | 0.83      | <TS |
| 360 | B  | 41  | 132    | 12                  | 04C      | 0.15      | <TS |
| 361 | B  | 41  | 132    | 10                  | 03C      | -0.92     | <TS |
| 362 | B  | 41  | 132    | 10                  | 02C      | -0.15     | <TS |
| 363 | B  | 41  | 134    | 12                  | 03C      | 0.92      | <TS |
| 364 | B  | 42  | 27     | 22                  | VS4      | -0.82     | <TS |
| 365 | B  | 42  | 37     | 17                  | VS4      | 0         | <TS |
| 366 | B  | 42  | 39     | 17                  | VS4      | 0.18      | <TS |
| 367 | B  | 42  | 41     | 9                   | 04H      | -0.86     | <TS |
| 368 | B  | 42  | 41     | 28                  | VS4      | 0.18      | <TS |
| 369 | B  | 42  | 41     | 36                  | VS4      | 0.77      | <TS |
| 370 | B  | 42  | 45     | 13                  | VS4      | 0.73      | <TS |
| 371 | B  | 42  | 47     | 13                  | 03H      | -0.82     | <TS |
| 372 | B  | 42  | 51     | 38                  | VS4      | -0.75     | <TS |
| 373 | B  | 42  | 51     | 15                  | VS4      | -0.14     | <TS |
| 374 | B  | 42  | 51     | 20                  | VS4      | 0.8       | <TS |
| 375 | B  | 42  | 57     | 19                  | VS4      | 0.19      | <TS |
| 376 | B  | 42  | 57     | 36                  | VS4      | 0.74      | <TS |
| 377 | B  | 42  | 123    | 26                  | VS4      | 0.94      | <TS |
| 378 | B  | 42  | 133    | 11                  | 02H      | -0.84     | <TS |
| 379 | B  | 43  | 6      | 11                  | 05H      | -0.32     | <TS |
| 380 | B  | 43  | 6      | 26                  | 02C      | -0.15     | <TS |
| 381 | B  | 43  | 6      | 13                  | 02C      | -1.01     | <TS |
| 382 | B  | 43  | 8      | 13                  | 03C      | 0.9       | <TS |
| 383 | B  | 43  | 40     | 11                  | 02C      | -0.88     | <TS |
| 384 | B  | 43  | 42     | 14                  | 05C      | 0.88      | <TS |
| 385 | B  | 43  | 46     | 17                  | 03C      | -0.86     | <TS |
| 386 | B  | 43  | 48     | 21                  | 05C      | 0.93      | <TS |
| 387 | B  | 43  | 126    | 17                  | 04C      | -0.82     | <TS |
| 388 | B  | 43  | 132    | 14                  | VS4      | 0.91      | <TS |
| 389 | B  | 43  | 134    | 12                  | 03C      | -1        | <TS |
| 390 | B  | 43  | 160    | 15                  | 01H      | -0.81     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 391 | B  | 44  | 19     | 12                  | VS4      | 0.18      | <TS |
| 392 | B  | 44  | 21     | 24                  | VS4      | -0.89     | <TS |
| 393 | B  | 44  | 21     | 30                  | VS4      | 0.77      | <TS |
| 394 | B  | 44  | 23     | 15                  | VS4      | 0.82      | <TS |
| 395 | B  | 44  | 23     | 27                  | DBH      | -1.61     | <TS |
| 396 | B  | 44  | 27     | 25                  | VS4      | -0.8      | <TS |
| 397 | B  | 44  | 27     | 25                  | VS4      | 0.95      | <TS |
| 398 | B  | 44  | 27     | 12                  | DBC      | -1.32     | <TS |
| 399 | B  | 44  | 29     | 14                  | VS4      | -0.83     | <TS |
| 400 | B  | 44  | 29     | 31                  | VS4      | -0.02     | <TS |
| 401 | B  | 44  | 29     | 12                  | VS4      | 0.79      | <TS |
| 402 | B  | 44  | 31     | 37                  | VS4      | -0.79     | <TS |
| 403 | B  | 44  | 31     | 21                  | VS4      | 0.02      | <TS |
| 404 | B  | 44  | 31     | 20                  | DBC      | 1.19      | <TS |
| 405 | B  | 44  | 31     | 17                  | 02C      | 0.86      | <TS |
| 406 | B  | 44  | 33     | 11                  | VS4      | 0.22      | <TS |
| 407 | B  | 44  | 33     | 11                  | VS4      | 0.93      | <TS |
| 408 | B  | 44  | 37     | 19                  | VS4      | 0.77      | <TS |
| 409 | B  | 44  | 37     | 25                  | VS4      | 0.22      | <TS |
| 410 | B  | 44  | 41     | 16                  | 02C      | -0.15     | <TS |
| 411 | B  | 44  | 45     | 24                  | VS4      | 0.79      | <TS |
| 412 | B  | 44  | 45     | 21                  | 04C      | 0.44      | <TS |
| 413 | B  | 44  | 45     | 16                  | 03C      | 0.88      | <TS |
| 414 | B  | 44  | 47     | 23                  | VS4      | -0.68     | <TS |
| 415 | B  | 44  | 47     | 21                  | VS4      | 0.02      | <TS |
| 416 | B  | 44  | 53     | 11                  | VS4      | -0.68     | <TS |
| 417 | B  | 44  | 57     | 21                  | VS4      | -0.78     | <TS |
| 418 | B  | 44  | 57     | 15                  | VS4      | 0.11      | <TS |
| 419 | B  | 44  | 57     | 9                   | VS4      | 0.82      | <TS |
| 420 | B  | 44  | 59     | 15                  | VS4      | 0.81      | <TS |
| 421 | B  | 44  | 59     | 25                  | VS4      | 0         | <TS |
| 422 | B  | 44  | 61     | 10                  | 02H      | -0.11     | <TS |
| 423 | B  | 44  | 63     | 12                  | VS4      | -0.93     | <TS |
| 424 | B  | 44  | 63     | 24                  | VS4      | 0.83      | <TS |
| 425 | B  | 44  | 65     | 23                  | VS4      | 0         | <TS |
| 426 | B  | 44  | 65     | 21                  | VS4      | 0.82      | <TS |
| 427 | B  | 44  | 99     | 14                  | DBH      | 1.85      | <TS |
| 428 | B  | 44  | 101    | 12                  | 04C      | 0.8       | <TS |
| 429 | B  | 44  | 103    | 34                  | VS4      | 0.89      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 430 | B  | 44  | 107    | 16                  | VS4      | -0.91     | <TS |
| 431 | B  | 44  | 107    | 28                  | VS4      | 0.89      | <TS |
| 432 | B  | 44  | 107    | 8                   | 06C      | 0.11      | <TS |
| 433 | B  | 44  | 113    | 11                  | DBH      | 1.56      | <TS |
| 434 | B  | 44  | 121    | 10                  | 03C      | 0.81      | <TS |
| 435 | B  | 44  | 127    | 20                  | 02C      | 0.88      | <TS |
| 436 | B  | 44  | 131    | 12                  | VS4      | 0.84      | <TS |
| 437 | B  | 44  | 131    | 16                  | 03C      | 0.9       | <TS |
| 438 | B  | 44  | 137    | 17                  | 04C      | -0.78     | <TS |
| 439 | B  | 44  | 159    | 15                  | 01H      | -0.95     | <TS |
| 440 | B  | 45  | 6      | 20                  | 02C      | -0.15     | <TS |
| 441 | B  | 45  | 6      | 25                  | 02C      | -0.94     | <TS |
| 442 | B  | 45  | 8      | 10                  | 01C      | -0.11     | <TS |
| 443 | B  | 45  | 16     | 6                   | DBH      | -1.59     | <TS |
| 444 | B  | 45  | 32     | 23                  | VS4      | -0.84     | <TS |
| 445 | B  | 45  | 32     | 20                  | VS4      | 0.24      | <TS |
| 446 | B  | 45  | 32     | 15                  | VS4      | 1.01      | <TS |
| 447 | B  | 45  | 34     | 32                  | VS4      | 0.07      | <TS |
| 448 | B  | 45  | 34     | 18                  | VS4      | -0.77     | <TS |
| 449 | B  | 45  | 34     | 11                  | VS4      | 0.8       | <TS |
| 450 | B  | 45  | 34     | 14                  | 06H      | 1.19      | <TS |
| 451 | B  | 45  | 36     | 13                  | 04H      | -0.81     | <TS |
| 452 | B  | 45  | 36     | 27                  | VS4      | 0         | <TS |
| 453 | B  | 45  | 36     | 18                  | VS4      | 0.82      | <TS |
| 454 | B  | 45  | 38     | 10                  | VS4      | -0.71     | <TS |
| 455 | B  | 45  | 38     | 12                  | VS4      | 0.22      | <TS |
| 456 | B  | 45  | 42     | 24                  | VS4      | -0.84     | <TS |
| 457 | B  | 45  | 42     | 17                  | VS4      | 0.9       | <TS |
| 458 | B  | 45  | 48     | 13                  | VS4      | -0.81     | <TS |
| 459 | B  | 45  | 48     | 19                  | VS4      | 0.15      | <TS |
| 460 | B  | 45  | 48     | 19                  | VS4      | 0.66      | <TS |
| 461 | B  | 45  | 56     | 16                  | 03H      | 0.85      | <TS |
| 462 | B  | 45  | 64     | 16                  | DBC      | -1.85     | <TS |
| 463 | B  | 45  | 66     | 15                  | VS4      | 0.81      | <TS |
| 464 | B  | 45  | 66     | 16                  | VS4      | 0         | <TS |
| 465 | B  | 45  | 108    | 7                   | 03H      | 0.11      | <TS |
| 466 | B  | 45  | 108    | 12                  | 04C      | 0         | <TS |
| 467 | B  | 45  | 110    | 13                  | 02C      | 0.87      | <TS |
| 468 | B  | 45  | 114    | 11                  | 03C      | 0.83      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 469 | B  | 45  | 118    | 24                  | 06H      | -0.2      | <TS |
| 470 | B  | 45  | 120    | 18                  | VS4      | -0.83     | <TS |
| 471 | B  | 45  | 120    | 15                  | VS4      | 0.9       | <TS |
| 472 | B  | 45  | 120    | 12                  | 02C      | -0.76     | <TS |
| 473 | B  | 45  | 122    | 23                  | VS4      | -0.96     | <TS |
| 474 | B  | 45  | 122    | 29                  | VS4      | 0.88      | <TS |
| 475 | B  | 45  | 122    | 15                  | 06C      | -0.66     | <TS |
| 476 | B  | 45  | 126    | 17                  | 02C      | 0.86      | <TS |
| 477 | B  | 45  | 128    | 12                  | 03H      | -0.98     | <TS |
| 478 | B  | 45  | 130    | 12                  | VS4      | 0.81      | <TS |
| 479 | B  | 45  | 132    | 17                  | VS4      | 0.9       | <TS |
| 480 | B  | 45  | 140    | 12                  | VS4      | -0.85     | <TS |
| 481 | B  | 45  | 140    | 26                  | VS4      | 0.87      | <TS |
| 482 | B  | 45  | 140    | 17                  | DBH      | -1.69     | <TS |
| 483 | B  | 45  | 140    | 13                  | 06C      | -0.57     | <TS |
| 484 | B  | 45  | 148    | 17                  | VS4      | 0.75      | <TS |
| 485 | B  | 45  | 148    | 19                  | 06C      | -0.88     | <TS |
| 486 | B  | 45  | 160    | 9                   | 01H      | -0.9      | <TS |
| 487 | B  | 45  | 160    | 11                  | 01H      | 0.85      | <TS |
| 488 | B  | 46  | 7      | 7                   | 01C      | 0.85      | <TS |
| 489 | B  | 46  | 7      | 21                  | 01C      | -0.15     | <TS |
| 490 | B  | 46  | 21     | 11                  | VS4      | 0.79      | <TS |
| 491 | B  | 46  | 23     | 19                  | VS4      | -0.95     | <TS |
| 492 | B  | 46  | 23     | 23                  | VS4      | 0.93      | <TS |
| 493 | B  | 46  | 25     | 16                  | VS4      | -0.66     | <TS |
| 494 | B  | 46  | 33     | 27                  | VS4      | -0.81     | <TS |
| 495 | B  | 46  | 33     | 13                  | VS4      | 0.02      | <TS |
| 496 | B  | 46  | 33     | 12                  | DBC      | -1.63     | <TS |
| 497 | B  | 46  | 35     | 23                  | VS4      | -0.8      | <TS |
| 498 | B  | 46  | 37     | 13                  | 02H      | 0.92      | <TS |
| 499 | B  | 46  | 37     | 14                  | VS4      | -0.95     | <TS |
| 500 | B  | 46  | 37     | 20                  | VS4      | 0.86      | <TS |
| 501 | B  | 46  | 37     | 12                  | DBC      | -1.37     | <TS |
| 502 | B  | 46  | 39     | 25                  | VS4      | 0.73      | <TS |
| 503 | B  | 46  | 39     | 14                  | VS4      | 0.11      | <TS |
| 504 | B  | 46  | 41     | 14                  | 04H      | 0.91      | <TS |
| 505 | B  | 46  | 47     | 12                  | 02H      | -0.19     | <TS |
| 506 | B  | 46  | 59     | 13                  | 02H      | 1.07      | <TS |
| 507 | B  | 46  | 59     | 13                  | 03C      | 0.89      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 508 | B  | 46  | 69     | 17                  | DBH      | -1.76     | <TS |
| 509 | B  | 46  | 103    | 14                  | 04C      | 0.83      | <TS |
| 510 | B  | 46  | 115    | 11                  | 02C      | 0.87      | <TS |
| 511 | B  | 46  | 125    | 8                   | 02C      | -0.94     | <TS |
| 512 | B  | 46  | 129    | 16                  | VS4      | 0.92      | <TS |
| 513 | B  | 46  | 129    | 12                  | 03C      | 0.85      | <TS |
| 514 | B  | 46  | 131    | 14                  | VS4      | 0.02      | <TS |
| 515 | B  | 46  | 131    | 11                  | VS4      | -0.88     | <TS |
| 516 | B  | 46  | 135    | 12                  | 03H      | -0.87     | <TS |
| 517 | B  | 46  | 135    | 13                  | VS4      | -0.84     | <TS |
| 518 | B  | 46  | 143    | 15                  | DBC      | 1.39      | <TS |
| 519 | B  | 46  | 151    | 32                  | VS4      | 0.87      | <TS |
| 520 | B  | 46  | 159    | 15                  | 01C      | 0.13      | <TS |
| 521 | B  | 47  | 8      | 10                  | 01H      | 0.9       | <TS |
| 522 | B  | 47  | 12     | 19                  | VS4      | -0.81     | <TS |
| 523 | B  | 47  | 12     | 24                  | VS4      | 0.9       | <TS |
| 524 | B  | 47  | 14     | 23                  | VS4      | 0.09      | <TS |
| 525 | B  | 47  | 14     | 26                  | VS4      | 0.79      | <TS |
| 526 | B  | 47  | 20     | 26                  | VS4      | -0.88     | <TS |
| 527 | B  | 47  | 20     | 28                  | VS4      | 0.82      | <TS |
| 528 | B  | 47  | 22     | 19                  | VS4      | -0.82     | <TS |
| 529 | B  | 47  | 22     | 18                  | VS4      | 1.04      | <TS |
| 530 | B  | 47  | 34     | 13                  | VS4      | 0.96      | <TS |
| 531 | B  | 47  | 40     | 12                  | 06C      | -0.75     | <TS |
| 532 | B  | 47  | 42     | 14                  | DBC      | 1.53      | <TS |
| 533 | B  | 47  | 46     | 23                  | VS4      | -0.77     | <TS |
| 534 | B  | 47  | 46     | 20                  | VS4      | -0.02     | <TS |
| 535 | B  | 47  | 46     | 12                  | VS4      | 0.95      | <TS |
| 536 | B  | 47  | 48     | 14                  | 06C      | 0.75      | <TS |
| 537 | B  | 47  | 56     | 17                  | VS4      | -0.77     | <TS |
| 538 | B  | 47  | 56     | 29                  | VS4      | 0.83      | <TS |
| 539 | B  | 47  | 58     | 17                  | VS4      | 0.91      | <TS |
| 540 | B  | 47  | 70     | 17                  | VS4      | -0.66     | <TS |
| 541 | B  | 47  | 96     | 23                  | VS4      | 0.77      | <TS |
| 542 | B  | 47  | 96     | 16                  | VS4      | -0.88     | <TS |
| 543 | B  | 47  | 96     | 11                  | 06C      | -0.07     | <TS |
| 544 | B  | 47  | 96     | 7                   | DBH      | 1.79      | <TS |
| 545 | B  | 47  | 98     | 23                  | VS4      | 0.87      | <TS |
| 546 | B  | 47  | 102    | 12                  | VS4      | -0.89     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|------------------|----------|-----------|-----|
| 547 | B  | 47  | 108    | 27               | 06H      | 1.03      | <TS |
| 548 | B  | 47  | 108    | 16               | VS4      | -0.38     | <TS |
| 549 | B  | 47  | 108    | 19               | VS4      | -0.85     | <TS |
| 550 | B  | 47  | 108    | 23               | VS4      | 0.76      | <TS |
| 551 | B  | 47  | 114    | 14               | 06C      | 1.03      | <TS |
| 552 | B  | 47  | 116    | 16               | 04C      | -0.91     | <TS |
| 553 | B  | 47  | 126    | 28               | VS4      | 0.88      | <TS |
| 554 | B  | 47  | 126    | 27               | VS4      | -0.77     | <TS |
| 555 | B  | 47  | 128    | 24               | VS4      | -0.78     | <TS |
| 556 | B  | 47  | 132    | 13               | VS4      | 0.83      | <TS |
| 557 | B  | 47  | 132    | 10               | VS4      | -0.78     | <TS |
| 558 | B  | 47  | 132    | 11               | 03C      | -0.89     | <TS |
| 559 | B  | 47  | 134    | 9                | 02C      | -0.16     | <TS |
| 560 | B  | 47  | 138    | 12               | DBH      | -1.58     | <TS |
| 561 | B  | 47  | 140    | 16               | VS4      | 0.81      | <TS |
| 562 | B  | 47  | 148    | 16               | 04C      | 0.87      | <TS |
| 563 | B  | 47  | 156    | 7                | 01C      | 0.07      | <TS |
| 564 | B  | 48  | 7      | 13               | 01H      | 0.9       | <TS |
| 565 | B  | 48  | 9      | 34               | VS4      | -0.73     | <TS |
| 566 | B  | 48  | 9      | 34               | VS4      | -0.04     | <TS |
| 567 | B  | 48  | 9      | 21               | VS4      | 0.77      | <TS |
| 568 | B  | 48  | 13     | 22               | VS4      | -0.77     | <TS |
| 569 | B  | 48  | 13     | 29               | VS4      | 0.2       | <TS |
| 570 | B  | 48  | 13     | 21               | VS4      | 0.77      | <TS |
| 571 | B  | 48  | 13     | 17               | VS4      | -0.18     | <TS |
| 572 | B  | 48  | 39     | 13               | 04H      | 0.91      | <TS |
| 573 | B  | 48  | 61     | 13               | 04H      | 0.91      | <TS |
| 574 | B  | 48  | 65     | 26               | VS4      | -0.82     | <TS |
| 575 | B  | 48  | 67     | 15               | VS4      | 0.25      | <TS |
| 576 | B  | 48  | 67     | 14               | VS4      | 0.83      | <TS |
| 577 | B  | 48  | 99     | 16               | 03C      | 0.92      | <TS |
| 578 | B  | 48  | 107    | 16               | 04C      | 0.92      | <TS |
| 579 | B  | 48  | 107    | 10               | 02C      | 0.86      | <TS |
| 580 | B  | 48  | 111    | 14               | 04C      | 0.8       | <TS |
| 581 | B  | 48  | 119    | 21               | 04C      | -0.87     | <TS |
| 582 | B  | 48  | 123    | 14               | VS4      | 0.88      | <TS |
| 583 | B  | 48  | 125    | 15               | 03C      | 0.87      | <TS |
| 584 | B  | 48  | 129    | 13               | 03C      | -0.13     | <TS |
| 585 | B  | 48  | 133    | 6                | 04C      | 0.13      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 586 | B  | 48  | 139    | 16                  | 03H      | 0.96      | <TS |
| 587 | B  | 48  | 141    | 14                  | 03H      | -0.92     | <TS |
| 588 | B  | 48  | 159    | 11                  | 01H      | -0.93     | <TS |
| 589 | B  | 48  | 159    | 12                  | 01C      | -1.01     | <TS |
| 590 | B  | 49  | 8      | 24                  | VS4      | 0.88      | <TS |
| 591 | B  | 49  | 8      | 5                   | DBC      | -1.67     | <TS |
| 592 | B  | 49  | 10     | 24                  | 01C      | 0.93      | <TS |
| 593 | B  | 49  | 12     | 8                   | DBC      | 1.76      | <TS |
| 594 | B  | 49  | 26     | 16                  | 03H      | 0.92      | <TS |
| 595 | B  | 49  | 34     | 12                  | VS4      | -0.81     | <TS |
| 596 | B  | 49  | 34     | 39                  | VS4      | 0.84      | <TS |
| 597 | B  | 49  | 46     | 21                  | VS4      | -0.82     | <TS |
| 598 | B  | 49  | 56     | 9                   | 03H      | -0.91     | <TS |
| 599 | B  | 49  | 74     | 27                  | DBH      | -2        | <TS |
| 600 | B  | 49  | 106    | 14                  | VS4      | 0.31      | <TS |
| 601 | B  | 49  | 122    | 12                  | 04C      | 0.89      | <TS |
| 602 | B  | 49  | 124    | 21                  | VS4      | -0.76     | <TS |
| 603 | B  | 49  | 126    | 12                  | 02C      | -0.87     | <TS |
| 604 | B  | 49  | 132    | 16                  | 03C      | -0.86     | <TS |
| 605 | B  | 49  | 144    | 16                  | 02H      | 0.93      | <TS |
| 606 | B  | 49  | 158    | 16                  | 01C      | 0.09      | <TS |
| 607 | B  | 50  | 7      | 12                  | DBH      | 1.79      | <TS |
| 608 | B  | 50  | 9      | 12                  | 01C      | -0.89     | <TS |
| 609 | B  | 50  | 63     | 15                  | DBH      | -1.32     | <TS |
| 610 | B  | 50  | 109    | 9                   | 03C      | 0.93      | <TS |
| 611 | B  | 50  | 127    | 13                  | 03C      | -0.87     | <TS |
| 612 | B  | 50  | 157    | 20                  | 01H      | -0.9      | <TS |
| 613 | B  | 50  | 159    | 13                  | 01C      | 0.88      | <TS |
| 614 | B  | 51  | 36     | 11                  | 03C      | 0.86      | <TS |
| 615 | B  | 51  | 36     | 15                  | 03C      | -0.9      | <TS |
| 616 | B  | 51  | 58     | 12                  | 01H      | 0.9       | <TS |
| 617 | B  | 51  | 58     | 14                  | 03H      | 0.87      | <TS |
| 618 | B  | 51  | 64     | 17                  | 02C      | 0.91      | <TS |
| 619 | B  | 51  | 72     | 13                  | VS3      | -0.7      | <TS |
| 620 | B  | 51  | 116    | 15                  | VS3      | -0.85     | <TS |
| 621 | B  | 51  | 116    | 13                  | 02C      | -0.89     | <TS |
| 622 | B  | 51  | 134    | 12                  | 03C      | -0.89     | <TS |
| 623 | B  | 51  | 136    | 13                  | 03C      | -0.92     | <TS |
| 624 | B  | 51  | 138    | 9                   | 02C      | -0.13     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|------------------|----------|-----------|-----|
| 625 | B  | 51  | 138    | 8                | 02C      | -0.94     | <TS |
| 626 | B  | 51  | 156    | 22               | VS5      | -0.84     | <TS |
| 627 | B  | 52  | 11     | 10               | 01C      | -0.15     | <TS |
| 628 | B  | 52  | 11     | 8                | 01C      | -0.95     | <TS |
| 629 | B  | 52  | 25     | 13               | 02H      | 0.82      | <TS |
| 630 | B  | 52  | 65     | 12               | 03C      | 0.87      | <TS |
| 631 | B  | 52  | 107    | 14               | 02C      | 0.87      | <TS |
| 632 | B  | 52  | 123    | 10               | 03C      | -0.08     | <TS |
| 633 | B  | 52  | 125    | 10               | 03C      | 0.87      | <TS |
| 634 | B  | 52  | 131    | 27               | VS5      | -0.55     | <TS |
| 635 | B  | 53  | 8      | 14               | 01C      | 0.79      | <TS |
| 636 | B  | 53  | 32     | 17               | 05C      | 0.68      | <TS |
| 637 | B  | 53  | 50     | 11               | 04H      | 0.91      | <TS |
| 638 | B  | 53  | 56     | 15               | 03H      | 0.87      | <TS |
| 639 | B  | 53  | 60     | 13               | 04H      | 0.99      | <TS |
| 640 | B  | 53  | 80     | 22               | 03C      | 0.77      | <TS |
| 641 | B  | 53  | 106    | 12               | 04C      | 0.83      | <TS |
| 642 | B  | 53  | 108    | 10               | 03C      | 0.86      | <TS |
| 643 | B  | 53  | 118    | 14               | 02C      | -0.13     | <TS |
| 644 | B  | 53  | 120    | 11               | 04C      | 0.9       | <TS |
| 645 | B  | 53  | 128    | 17               | 03C      | 0.94      | <TS |
| 646 | B  | 53  | 132    | 14               | 02C      | 0.92      | <TS |
| 647 | B  | 53  | 134    | 12               | 03C      | 0.87      | <TS |
| 648 | B  | 53  | 138    | 12               | VS3      | -0.93     | <TS |
| 649 | B  | 54  | 17     | 12               | VS3      | -0.88     | <TS |
| 650 | B  | 54  | 17     | 12               | VS3      | 0.9       | <TS |
| 651 | B  | 54  | 61     | 11               | 05H      | 0.96      | <TS |
| 652 | B  | 54  | 69     | 11               | 03H      | 1         | <TS |
| 653 | B  | 54  | 71     | 13               | 02H      | 0.94      | <TS |
| 654 | B  | 54  | 103    | 11               | 04C      | 0.81      | <TS |
| 655 | B  | 54  | 103    | 12               | VS3      | -0.85     | <TS |
| 656 | B  | 54  | 117    | 14               | 02C      | 0.89      | <TS |
| 657 | B  | 54  | 121    | 15               | 04C      | -0.96     | <TS |
| 658 | B  | 54  | 143    | 13               | VS3      | -0.87     | <TS |
| 659 | B  | 55  | 14     | 12               | VS5      | -0.86     | <TS |
| 660 | B  | 55  | 32     | 14               | VS3      | -0.59     | <TS |
| 661 | B  | 55  | 54     | 14               | VS3      | -0.75     | <TS |
| 662 | B  | 55  | 56     | 11               | 03H      | 0.91      | <TS |
| 663 | B  | 55  | 60     | 14               | 04H      | 0.91      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 664 | B  | 55  | 62     | 13                  | 03C      | 0.13      | <TS |
| 665 | B  | 55  | 64     | 17                  | 02C      | 0.91      | <TS |
| 666 | B  | 55  | 78     | 13                  | 01C      | 0.98      | <TS |
| 667 | B  | 55  | 78     | 11                  | 04H      | 0.92      | <TS |
| 668 | B  | 55  | 80     | 9                   | 03H      | 0.88      | <TS |
| 669 | B  | 55  | 86     | 11                  | 06C      | 0.81      | <TS |
| 670 | B  | 55  | 96     | 10                  | 01C      | 0.89      | <TS |
| 671 | B  | 55  | 114    | 17                  | 03C      | 0.86      | <TS |
| 672 | B  | 55  | 114    | 11                  | 03C      | 0.11      | <TS |
| 673 | B  | 55  | 120    | 14                  | 04H      | -0.85     | <TS |
| 674 | B  | 55  | 126    | 11                  | 03C      | 0.07      | <TS |
| 675 | B  | 55  | 144    | 20                  | VS3      | -0.67     | <TS |
| 676 | B  | 56  | 55     | 12                  | VS4      | -0.71     | <TS |
| 677 | B  | 56  | 59     | 12                  | 04H      | 0.87      | <TS |
| 678 | B  | 56  | 77     | 11                  | 02C      | 0.81      | <TS |
| 679 | B  | 56  | 77     | 10                  | 03H      | -0.82     | <TS |
| 680 | B  | 56  | 85     | 21                  | 03C      | 0.83      | <TS |
| 681 | B  | 56  | 85     | 14                  | 02C      | -0.9      | <TS |
| 682 | B  | 56  | 97     | 16                  | 04C      | 0.87      | <TS |
| 683 | B  | 56  | 103    | 16                  | DBH      | 0.24      | <TS |
| 684 | B  | 56  | 129    | 17                  | 03C      | 0.82      | <TS |
| 685 | B  | 56  | 129    | 13                  | VS3      | 0.76      | <TS |
| 686 | B  | 56  | 145    | 17                  | 04C      | -0.75     | <TS |
| 687 | B  | 56  | 151    | 15                  | 06C      | 0.99      | <TS |
| 688 | B  | 56  | 151    | 6                   | 06C      | 0         | <TS |
| 689 | B  | 57  | 16     | 15                  | 06H      | -0.15     | <TS |
| 690 | B  | 57  | 16     | 8                   | 06H      | -1.01     | <TS |
| 691 | B  | 57  | 26     | 13                  | 06H      | 0.99      | <TS |
| 692 | B  | 57  | 62     | 17                  | 04H      | 0.84      | <TS |
| 693 | B  | 57  | 62     | 9                   | 02H      | -0.88     | <TS |
| 694 | B  | 57  | 62     | 9                   | DBC      | 0.68      | <TS |
| 695 | B  | 57  | 78     | 9                   | 03H      | -0.86     | <TS |
| 696 | B  | 57  | 80     | 16                  | 03C      | 0.87      | <TS |
| 697 | B  | 57  | 90     | 19                  | 03C      | 0.8       | <TS |
| 698 | B  | 57  | 90     | 14                  | 03C      | -0.89     | <TS |
| 699 | B  | 57  | 118    | 11                  | 03C      | -0.22     | <TS |
| 700 | B  | 57  | 120    | 8                   | 05C      | 0.86      | <TS |
| 701 | B  | 57  | 120    | 9                   | 04C      | -0.07     | <TS |
| 702 | B  | 57  | 142    | 13                  | VS3      | 0.76      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 703 | B  | 57  | 142    | 16                  | 04C      | 0.82      | <TS |
| 704 | B  | 57  | 144    | 15                  | 04C      | 0.8       | <TS |
| 705 | B  | 57  | 144    | 14                  | 03C      | 0.76      | <TS |
| 706 | B  | 57  | 146    | 9                   | DBH      | 1.89      | <TS |
| 707 | B  | 57  | 148    | 16                  | 04C      | 0.92      | <TS |
| 708 | B  | 58  | 9      | 10                  | 05H      | 0.88      | <TS |
| 709 | B  | 58  | 25     | 11                  | 06H      | 0.91      | <TS |
| 710 | B  | 58  | 27     | 18                  | 05H      | 0.84      | <TS |
| 711 | B  | 58  | 29     | 12                  | VS3      | -0.87     | <TS |
| 712 | B  | 58  | 47     | 12                  | VS5      | -1.1      | <TS |
| 713 | B  | 58  | 47     | 12                  | 03C      | -0.88     | <TS |
| 714 | B  | 58  | 57     | 11                  | 06C      | 0.75      | <TS |
| 715 | B  | 58  | 59     | 11                  | 02H      | -0.1      | <TS |
| 716 | B  | 58  | 63     | 12                  | 04H      | 0.86      | <TS |
| 717 | B  | 58  | 65     | 10                  | 04H      | -0.13     | <TS |
| 718 | B  | 58  | 71     | 11                  | 04H      | -0.81     | <TS |
| 719 | B  | 58  | 71     | 11                  | 04H      | -0.17     | <TS |
| 720 | B  | 58  | 117    | 13                  | 06C      | 0.83      | <TS |
| 721 | B  | 58  | 117    | 13                  | 03C      | 0.87      | <TS |
| 722 | B  | 58  | 155    | 12                  | 01C      | -0.93     | <TS |
| 723 | B  | 59  | 26     | 12                  | 04H      | 0.88      | <TS |
| 724 | B  | 59  | 26     | 12                  | 03C      | 0.81      | <TS |
| 725 | B  | 59  | 48     | 15                  | 06H      | 0.97      | <TS |
| 726 | B  | 59  | 48     | 22                  | 03C      | 0.9       | <TS |
| 727 | B  | 59  | 56     | 8                   | 03H      | 0.13      | <TS |
| 728 | B  | 59  | 66     | 16                  | 02H      | -0.83     | <TS |
| 729 | B  | 59  | 70     | 11                  | 03H      | -0.84     | <TS |
| 730 | B  | 59  | 72     | 16                  | 03H      | 0.84      | <TS |
| 731 | B  | 59  | 88     | 12                  | 03C      | 0.92      | <TS |
| 732 | B  | 59  | 116    | 11                  | 03C      | 0.87      | <TS |
| 733 | B  | 59  | 118    | 14                  | 03C      | -0.91     | <TS |
| 734 | B  | 59  | 120    | 14                  | 04H      | -0.91     | <TS |
| 735 | B  | 59  | 120    | 14                  | 03C      | -0.89     | <TS |
| 736 | B  | 59  | 122    | 13                  | 03C      | -0.18     | <TS |
| 737 | B  | 60  | 39     | 11                  | 04H      | 0.87      | <TS |
| 738 | B  | 60  | 41     | 20                  | 02H      | -0.06     | <TS |
| 739 | B  | 60  | 63     | 13                  | 05H      | 0.98      | <TS |
| 740 | B  | 60  | 63     | 11                  | 03H      | -0.84     | <TS |
| 741 | B  | 60  | 63     | 8                   | 02H      | -0.13     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 742 | B  | 60  | 71     | 6                   | 03H      | -0.75     | <TS |
| 743 | B  | 60  | 81     | 12                  | 02H      | 0.92      | <TS |
| 744 | B  | 60  | 119    | 13                  | 03C      | 0.84      | <TS |
| 745 | B  | 60  | 119    | 15                  | VS5      | -0.87     | <TS |
| 746 | B  | 60  | 133    | 15                  | 03C      | -0.91     | <TS |
| 747 | B  | 61  | 12     | 15                  | 06H      | -0.24     | <TS |
| 748 | B  | 61  | 28     | 18                  | DBC      | 2         | <TS |
| 749 | B  | 61  | 28     | 13                  | 04H      | -0.86     | <TS |
| 750 | B  | 61  | 42     | 14                  | VS3      | 0.89      | <TS |
| 751 | B  | 61  | 48     | 12                  | VS3      | -1.02     | <TS |
| 752 | B  | 61  | 48     | 15                  | 03C      | 0.86      | <TS |
| 753 | B  | 61  | 62     | 11                  | 03H      | -0.81     | <TS |
| 754 | B  | 61  | 68     | 16                  | 02H      | -0.88     | <TS |
| 755 | B  | 61  | 82     | 12                  | 02C      | -0.92     | <TS |
| 756 | B  | 61  | 102    | 16                  | 05C      | -0.11     | <TS |
| 757 | B  | 61  | 114    | 17                  | 04C      | 0.83      | <TS |
| 758 | B  | 61  | 120    | 16                  | 02C      | -0.88     | <TS |
| 759 | B  | 61  | 124    | 13                  | 02C      | 0.86      | <TS |
| 760 | B  | 61  | 142    | 15                  | 03C      | 0.88      | <TS |
| 761 | B  | 61  | 144    | 15                  | 06H      | 0.86      | <TS |
| 762 | B  | 61  | 154    | 16                  | VS5      | 1.01      | <TS |
| 763 | B  | 61  | 156    | 11                  | 01H      | 0.8       | <TS |
| 764 | B  | 62  | 11     | 10                  | 04H      | 0.87      | <TS |
| 765 | B  | 62  | 17     | 18                  | VS5      | 0.91      | <TS |
| 766 | B  | 62  | 17     | 17                  | VS4      | -0.73     | <TS |
| 767 | B  | 62  | 23     | 14                  | VS5      | 0.93      | <TS |
| 768 | B  | 62  | 39     | 11                  | 04H      | -0.17     | <TS |
| 769 | B  | 62  | 47     | 15                  | 03C      | 0.86      | <TS |
| 770 | B  | 62  | 47     | 10                  | DBC      | -1.04     | <TS |
| 771 | B  | 62  | 53     | 10                  | 06H      | 1         | <TS |
| 772 | B  | 62  | 57     | 14                  | 02H      | -0.93     | <TS |
| 773 | B  | 62  | 57     | 13                  | 02C      | 0.82      | <TS |
| 774 | B  | 62  | 59     | 13                  | 02C      | 0.91      | <TS |
| 775 | B  | 62  | 75     | 12                  | 03H      | 0.9       | <TS |
| 776 | B  | 62  | 85     | 11                  | DBC      | -1.73     | <TS |
| 777 | B  | 62  | 107    | 13                  | 02C      | -0.86     | <TS |
| 778 | B  | 62  | 111    | 15                  | 03H      | 0.13      | <TS |
| 779 | B  | 62  | 123    | 15                  | DBC      | -1.75     | <TS |
| 780 | B  | 62  | 155    | 12                  | 01H      | -0.81     | <TS |



**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 781 | B  | 62  | 155    | 13                  | 01H      | -0.1      | <TS |
| 782 | B  | 62  | 155    | 15                  | 01H      | 0.84      | <TS |
| 783 | B  | 63  | 18     | 13                  | DBC      | -0.77     | <TS |
| 784 | B  | 63  | 28     | 12                  | 06H      | -0.97     | <TS |
| 785 | B  | 63  | 42     | 13                  | VS3      | 0.95      | <TS |
| 786 | B  | 63  | 56     | 14                  | 03H      | -0.88     | <TS |
| 787 | B  | 63  | 56     | 9                   | 04H      | -0.89     | <TS |
| 788 | B  | 63  | 56     | 12                  | 03C      | 0.84      | <TS |
| 789 | B  | 63  | 58     | 12                  | 04H      | -0.92     | <TS |
| 790 | B  | 63  | 60     | 12                  | 03C      | -0.95     | <TS |
| 791 | B  | 63  | 70     | 19                  | 04H      | 0.9       | <TS |
| 792 | B  | 63  | 78     | 12                  | 03H      | -0.82     | <TS |
| 793 | B  | 63  | 82     | 24                  | VS4      | 0.94      | <TS |
| 794 | B  | 63  | 82     | 12                  | VS5      | -0.28     | <TS |
| 795 | B  | 63  | 82     | 23                  | VS5      | 0.98      | <TS |
| 796 | B  | 63  | 86     | 11                  | 02C      | -0.86     | <TS |
| 797 | B  | 63  | 106    | 14                  | 03H      | 0.86      | <TS |
| 798 | B  | 63  | 110    | 14                  | 03H      | -0.13     | <TS |
| 799 | B  | 63  | 114    | 12                  | 03C      | 0.11      | <TS |
| 800 | B  | 63  | 114    | 11                  | 03C      | 0.86      | <TS |
| 801 | B  | 63  | 124    | 12                  | 04C      | -0.92     | <TS |
| 802 | B  | 63  | 126    | 11                  | VS3      | 0.94      | <TS |
| 803 | B  | 63  | 128    | 14                  | 06C      | 0.87      | <TS |
| 804 | B  | 63  | 132    | 24                  | VS3      | 1.1       | <TS |
| 805 | B  | 63  | 136    | 17                  | VS5      | 0.97      | <TS |
| 806 | B  | 63  | 136    | 17                  | 03C      | 1         | <TS |
| 807 | B  | 63  | 138    | 16                  | 03C      | 1         | <TS |
| 808 | B  | 63  | 140    | 14                  | 06C      | -0.22     | <TS |
| 809 | B  | 63  | 140    | 16                  | 03C      | 0.9       | <TS |
| 810 | B  | 63  | 140    | 10                  | 03C      | 0.11      | <TS |
| 811 | B  | 63  | 146    | 13                  | 06C      | 0.86      | <TS |
| 812 | B  | 64  | 35     | 10                  | DBC      | -1.9      | <TS |
| 813 | B  | 64  | 37     | 13                  | 06H      | -0.15     | <TS |
| 814 | B  | 64  | 51     | 17                  | VS5      | -0.04     | <TS |
| 815 | B  | 64  | 51     | 12                  | VS5      | 0.71      | <TS |
| 816 | B  | 64  | 81     | 5                   | 06H      | -0.89     | <TS |
| 817 | B  | 64  | 103    | 10                  | 04C      | 0.89      | <TS |
| 818 | B  | 64  | 103    | 6                   | 04C      | -0.93     | <TS |
| 819 | B  | 64  | 111    | 10                  | 03H      | 0.92      | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 820 | B  | 64  | 113    | 10                  | 06C      | 0.91      | <TS |
| 821 | B  | 64  | 121    | 14                  | 03C      | 0.88      | <TS |
| 822 | B  | 64  | 135    | 14                  | VS3      | -0.89     | <TS |
| 823 | B  | 64  | 135    | 13                  | VS4      | -0.83     | <TS |
| 824 | B  | 64  | 143    | 13                  | 06H      | 0.98      | <TS |
| 825 | B  | 64  | 147    | 11                  | DBH      | 1.78      | <TS |
| 826 | B  | 64  | 153    | 9                   | 01C      | -0.88     | <TS |
| 827 | B  | 65  | 16     | 11                  | 06H      | -0.26     | <TS |
| 828 | B  | 65  | 16     | 13                  | VS3      | -0.82     | <TS |
| 829 | B  | 65  | 32     | 13                  | VS3      | -0.86     | <TS |
| 830 | B  | 65  | 62     | 20                  | 04H      | -1.18     | <TS |
| 831 | B  | 65  | 110    | 21                  | 03H      | 0.81      | <TS |
| 832 | B  | 65  | 118    | 15                  | 02C      | 0.85      | <TS |
| 833 | B  | 65  | 122    | 14                  | 06C      | 0.81      | <TS |
| 834 | B  | 65  | 122    | 12                  | 02C      | 0.88      | <TS |
| 835 | B  | 65  | 130    | 11                  | 03C      | 0.99      | <TS |
| 836 | B  | 65  | 144    | 12                  | VS4      | 0.9       | <TS |
| 837 | B  | 65  | 150    | 11                  | DBH      | 1.98      | <TS |
| 838 | B  | 66  | 17     | 18                  | 06H      | 0.91      | <TS |
| 839 | B  | 66  | 17     | 9                   | 06C      | 0.77      | <TS |
| 840 | B  | 66  | 21     | 21                  | 06H      | 0.89      | <TS |
| 841 | B  | 66  | 27     | 11                  | 06C      | 0.82      | <TS |
| 842 | B  | 66  | 27     | 10                  | 06H      | -0.86     | <TS |
| 843 | B  | 66  | 29     | 12                  | 06C      | -0.91     | <TS |
| 844 | B  | 66  | 31     | 11                  | 06C      | 0.87      | <TS |
| 845 | B  | 66  | 35     | 17                  | 06C      | 0.93      | <TS |
| 846 | B  | 66  | 35     | 17                  | DBC      | 1.31      | <TS |
| 847 | B  | 66  | 39     | 17                  | VS5      | -0.82     | <TS |
| 848 | B  | 66  | 41     | 16                  | VS3      | -0.78     | <TS |
| 849 | B  | 66  | 41     | 12                  | VS3      | -0.2      | <TS |
| 850 | B  | 66  | 41     | 15                  | VS4      | -0.84     | <TS |
| 851 | B  | 66  | 41     | 11                  | DBC      | -1.55     | <TS |
| 852 | B  | 66  | 45     | 14                  | 06C      | 0.84      | <TS |
| 853 | B  | 66  | 47     | 11                  | 06C      | -0.18     | <TS |
| 854 | B  | 66  | 51     | 11                  | 06C      | 0.89      | <TS |
| 855 | B  | 66  | 51     | 13                  | 04C      | -0.15     | <TS |
| 856 | B  | 66  | 51     | 14                  | 06H      | 0.89      | <TS |
| 857 | B  | 66  | 59     | 13                  | 04C      | 0.95      | <TS |
| 858 | B  | 66  | 77     | 12                  | VS3      | -0.75     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 859 | B  | 66  | 97     | 12                  | 01C      | 0.85      | <TS |
| 860 | B  | 66  | 105    | 14                  | VS5      | 0.85      | <TS |
| 861 | B  | 66  | 107    | 12                  | 02H      | -0.82     | <TS |
| 862 | B  | 66  | 107    | 10                  | 02C      | 0.83      | <TS |
| 863 | B  | 66  | 109    | 23                  | VS3      | 0         | <TS |
| 864 | B  | 66  | 125    | 16                  | 02C      | 0.94      | <TS |
| 865 | B  | 66  | 137    | 11                  | 03C      | 0.9       | <TS |
| 866 | B  | 66  | 137    | 7                   | 03C      | 0.11      | <TS |
| 867 | B  | 66  | 143    | 15                  | VS5      | 0.79      | <TS |
| 868 | B  | 66  | 147    | 17                  | VS5      | -0.62     | <TS |
| 869 | B  | 66  | 147    | 13                  | VS3      | -0.84     | <TS |
| 870 | B  | 66  | 147    | 14                  | VS3      | 0.84      | <TS |
| 871 | B  | 66  | 149    | 20                  | 06H      | 0.83      | <TS |
| 872 | B  | 66  | 153    | 13                  | 04C      | -0.98     | <TS |
| 873 | B  | 66  | 153    | 18                  | VS3      | 0.7       | <TS |
| 874 | B  | 67  | 36     | 13                  | 06H      | 0.86      | <TS |
| 875 | B  | 67  | 46     | 12                  | DBC      | 1.63      | <TS |
| 876 | B  | 67  | 52     | 9                   | 04H      | 0.88      | <TS |
| 877 | B  | 67  | 56     | 9                   | 02H      | 0.9       | <TS |
| 878 | B  | 67  | 56     | 12                  | 04H      | -0.85     | <TS |
| 879 | B  | 67  | 56     | 13                  | 03C      | 0.86      | <TS |
| 880 | B  | 67  | 56     | 12                  | 02C      | 0.71      | <TS |
| 881 | B  | 67  | 58     | 18                  | 03C      | 0.79      | <TS |
| 882 | B  | 67  | 58     | 9                   | 03C      | 0.09      | <TS |
| 883 | B  | 67  | 62     | 18                  | 03C      | 0.79      | <TS |
| 884 | B  | 67  | 62     | 14                  | 02C      | -0.24     | <TS |
| 885 | B  | 67  | 74     | 9                   | 04H      | -0.86     | <TS |
| 886 | B  | 67  | 76     | 13                  | 02H      | -0.86     | <TS |
| 887 | B  | 67  | 78     | 11                  | 03H      | 0.9       | <TS |
| 888 | B  | 67  | 96     | 13                  | 06C      | -0.17     | <TS |
| 889 | B  | 67  | 104    | 13                  | 03H      | 0.93      | <TS |
| 890 | B  | 67  | 104    | 11                  | 04H      | 0.8       | <TS |
| 891 | B  | 67  | 104    | 21                  | 06C      | -0.15     | <TS |
| 892 | B  | 67  | 108    | 13                  | 03H      | 0.93      | <TS |
| 893 | B  | 67  | 112    | 13                  | 02C      | -0.92     | <TS |
| 894 | B  | 67  | 128    | 21                  | VS3      | 0.93      | <TS |
| 895 | B  | 67  | 128    | 13                  | 06H      | 0.22      | <TS |
| 896 | B  | 67  | 134    | 27                  | 06C      | -0.97     | <TS |
| 897 | B  | 67  | 134    | 15                  | 03C      | 0.88      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column\ | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|---------|---------------------|----------|-----------|-----|
| 898 | B  | 67  | 136     | 19                  | DBH      | -1.64     | <TS |
| 899 | B  | 67  | 138     | 28                  | VS3      | 0.11      | <TS |
| 900 | B  | 67  | 138     | 29                  | 03C      | 0.54      | <TS |
| 901 | B  | 67  | 148     | 19                  | DBH      | 1.71      | <TS |
| 902 | B  | 67  | 148     | 16                  | VS3      | 0.77      | <TS |
| 903 | B  | 67  | 150     | 17                  | VS3      | -0.8      | <TS |
| 904 | B  | 67  | 150     | 20                  | VS3      | 0.91      | <TS |
| 905 | B  | 68  | 17      | 9                   | 04H      | 0.92      | <TS |
| 906 | B  | 68  | 21      | 13                  | VS5      | -0.84     | <TS |
| 907 | B  | 68  | 41      | 18                  | 04H      | 0.88      | <TS |
| 908 | B  | 68  | 45      | 10                  | DBC      | -1.26     | <TS |
| 909 | B  | 68  | 51      | 10                  | 02H      | 0.89      | <TS |
| 910 | B  | 68  | 85      | 13                  | 02C      | -0.88     | <TS |
| 911 | B  | 68  | 91      | 12                  | 03C      | -0.88     | <TS |
| 912 | B  | 68  | 93      | 17                  | 04C      | -0.89     | <TS |
| 913 | B  | 68  | 93      | 12                  | 04C      | -0.17     | <TS |
| 914 | B  | 68  | 107     | 13                  | 02H      | 0.9       | <TS |
| 915 | B  | 68  | 109     | 15                  | 02H      | 0.9       | <TS |
| 916 | B  | 68  | 113     | 12                  | 03H      | 0.88      | <TS |
| 917 | B  | 68  | 113     | 9                   | 04H      | -0.92     | <TS |
| 918 | B  | 68  | 113     | 21                  | 04H      | 0.9       | <TS |
| 919 | B  | 68  | 117     | 15                  | 04H      | 0.97      | <TS |
| 920 | B  | 68  | 139     | 12                  | VS3      | -0.84     | <TS |
| 921 | B  | 68  | 143     | 18                  | 06H      | 0.91      | <TS |
| 922 | B  | 68  | 151     | 18                  | VS3      | -0.62     | <TS |
| 923 | B  | 68  | 151     | 16                  | VS5      | 0.79      | <TS |
| 924 | B  | 69  | 16      | 13                  | VS3      | -0.75     | <TS |
| 925 | B  | 69  | 28      | 14                  | 06H      | -0.97     | <TS |
| 926 | B  | 69  | 28      | 16                  | 06C      | 0.82      | <TS |
| 927 | B  | 69  | 28      | 12                  | 06H      | -0.15     | <TS |
| 928 | B  | 69  | 32      | 13                  | VS4      | -0.8      | <TS |
| 929 | B  | 69  | 32      | 12                  | VS4      | 0.86      | <TS |
| 930 | B  | 69  | 34      | 18                  | 06C      | -0.89     | <TS |
| 931 | B  | 69  | 34      | 16                  | 06C      | 0.84      | <TS |
| 932 | B  | 69  | 34      | 20                  | DBC      | 1.29      | <TS |
| 933 | B  | 69  | 36      | 13                  | 04C      | 0.86      | <TS |
| 934 | B  | 69  | 36      | 13                  | DBC      | 1.5       | <TS |
| 935 | B  | 69  | 48      | 9                   | 04C      | 0.13      | <TS |
| 936 | B  | 69  | 52      | 22                  | VS3      | -0.07     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No  | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|-----|----|-----|--------|---------------------|----------|-----------|-----|
| 937 | B  | 69  | 52     | 16                  | VS5      | -0.78     | <TS |
| 938 | B  | 69  | 52     | 19                  | VS5      | 0.8       | <TS |
| 939 | B  | 69  | 52     | 23                  | VS4      | -0.73     | <TS |
| 940 | B  | 69  | 52     | 15                  | VS4      | -0.09     | <TS |
| 941 | B  | 69  | 56     | 15                  | VS3      | 0.75      | <TS |
| 942 | B  | 69  | 56     | 8                   | VS3      | 0.13      | <TS |
| 943 | B  | 69  | 56     | 14                  | VS5      | -0.78     | <TS |
| 944 | B  | 69  | 56     | 13                  | VS5      | 0.73      | <TS |
| 945 | B  | 69  | 66     | 13                  | 02H      | 0.92      | <TS |
| 946 | B  | 69  | 72     | 15                  | 06C      | -0.95     | <TS |
| 947 | B  | 69  | 76     | 16                  | VS5      | 0.99      | <TS |
| 948 | B  | 69  | 102    | 10                  | 03H      | 0.8       | <TS |
| 949 | B  | 69  | 106    | 16                  | 06H      | -0.87     | <TS |
| 950 | B  | 69  | 110    | 15                  | 03C      | 0.94      | <TS |
| 951 | B  | 69  | 114    | 17                  | 04H      | 0.88      | <TS |
| 952 | B  | 69  | 120    | 17                  | 03C      | 0.88      | <TS |
| 953 | B  | 69  | 120    | 13                  | 03C      | 0.09      | <TS |
| 954 | B  | 69  | 122    | 9                   | 04H      | 0.95      | <TS |
| 955 | B  | 69  | 124    | 11                  | 03C      | -0.92     | <TS |
| 956 | B  | 69  | 126    | 17                  | 03H      | 0.92      | <TS |
| 957 | B  | 69  | 128    | 21                  | 03C      | 0.92      | <TS |
| 958 | B  | 69  | 132    | 16                  | 04H      | 0.98      | <TS |
| 959 | B  | 69  | 134    | 16                  | VS3      | -0.83     | <TS |
| 960 | B  | 69  | 134    | 35                  | VS4      | -0.9      | <TS |
| 961 | B  | 69  | 134    | 28                  | VS4      | 0.97      | <TS |
| 962 | B  | 69  | 134    | 15                  | VS5      | -0.83     | <TS |
| 963 | B  | 69  | 134    | 15                  | VS5      | 0.7       | <TS |
| 964 | B  | 69  | 136    | 18                  | VS5      | -0.79     | <TS |
| 965 | B  | 69  | 136    | 13                  | VS5      | 0.82      | <TS |
| 966 | B  | 69  | 140    | 14                  | VS3      | 0.84      | <TS |
| 967 | B  | 69  | 140    | 15                  | VS4      | 0.88      | <TS |
| 968 | B  | 69  | 140    | 20                  | VS5      | -0.79     | <TS |
| 969 | B  | 69  | 140    | 16                  | VS5      | 0.86      | <TS |
| 970 | B  | 69  | 144    | 19                  | VS3      | -0.86     | <TS |
| 971 | B  | 69  | 144    | 26                  | VS5      | -0.81     | <TS |
| 972 | B  | 69  | 150    | 30                  | VS3      | -0.86     | <TS |
| 973 | B  | 69  | 150    | 23                  | VS3      | 0.83      | <TS |
| 974 | B  | 69  | 150    | 13                  | VS4      | 1.03      | <TS |
| 975 | B  | 69  | 150    | 23                  | VS5      | 0.79      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 976  | B  | 70  | 31     | 12                  | 06C      | 0.89      | <TS |
| 977  | B  | 70  | 45     | 14                  | 03H      | 0.92      | <TS |
| 978  | B  | 70  | 47     | 11                  | 04C      | 0.02      | <TS |
| 979  | B  | 70  | 51     | 15                  | 03C      | 0.88      | <TS |
| 980  | B  | 70  | 75     | 18                  | 03H      | -0.5      | <TS |
| 981  | B  | 70  | 83     | 11                  | 02C      | 0.84      | <TS |
| 982  | B  | 70  | 107    | 12                  | 02H      | -0.88     | <TS |
| 983  | B  | 70  | 115    | 14                  | 04H      | 0.95      | <TS |
| 984  | B  | 70  | 117    | 12                  | 03C      | -0.93     | <TS |
| 985  | B  | 70  | 129    | 21                  | 06C      | -0.93     | <TS |
| 986  | B  | 70  | 141    | 21                  | VS3      | -0.86     | <TS |
| 987  | B  | 70  | 143    | 11                  | DBC      | 1.3       | <TS |
| 988  | B  | 70  | 147    | 15                  | VS3      | -0.89     | <TS |
| 989  | B  | 70  | 153    | 16                  | VS4      | -0.94     | <TS |
| 990  | B  | 70  | 153    | 17                  | VS4      | 0.97      | <TS |
| 991  | B  | 70  | 153    | 19                  | 03C      | 0.15      | <TS |
| 992  | B  | 71  | 14     | 16                  | VS4      | 0.97      | <TS |
| 993  | B  | 71  | 14     | 12                  | 02H      | -0.87     | <TS |
| 994  | B  | 71  | 20     | 17                  | DBH      | -1.57     | <TS |
| 995  | B  | 71  | 20     | 17                  | VS5      | 0.88      | <TS |
| 996  | B  | 71  | 20     | 16                  | DBC      | 1.46      | <TS |
| 997  | B  | 71  | 36     | 16                  | VS3      | 0.09      | <TS |
| 998  | B  | 71  | 36     | 17                  | VS3      | 0.82      | <TS |
| 999  | B  | 71  | 36     | 19                  | VS4      | 0.8       | <TS |
| 1000 | B  | 71  | 36     | 14                  | VS5      | -0.69     | <TS |
| 1001 | B  | 71  | 36     | 26                  | VS5      | 0.02      | <TS |
| 1002 | B  | 71  | 36     | 9                   | DBC      | 2         | <TS |
| 1003 | B  | 71  | 36     | 11                  | DBC      | -2        | <TS |
| 1004 | B  | 71  | 36     | 9                   | VS4      | -0.83     | <TS |
| 1005 | B  | 71  | 38     | 16                  | 05H      | 0.99      | <TS |
| 1006 | B  | 71  | 42     | 9                   | 04H      | -0.79     | <TS |
| 1007 | B  | 71  | 46     | 13                  | 04H      | -0.85     | <TS |
| 1008 | B  | 71  | 52     | 13                  | 03C      | 0.88      | <TS |
| 1009 | B  | 71  | 52     | 8                   | 02C      | -0.9      | <TS |
| 1010 | B  | 71  | 58     | 11                  | 02C      | -0.09     | <TS |
| 1011 | B  | 71  | 62     | 14                  | 03C      | -0.22     | <TS |
| 1012 | B  | 71  | 62     | 10                  | 02C      | -0.22     | <TS |
| 1013 | B  | 71  | 80     | 9                   | 03C      | 0.13      | <TS |
| 1014 | B  | 71  | 86     | 15                  | VS5      | -0.84     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1015 | B  | 71  | 86     | 10                  | 02C      | -0.13     | <TS |
| 1016 | B  | 71  | 86     | 15                  | 02C      | -0.83     | <TS |
| 1017 | B  | 71  | 102    | 12                  | 05C      | 0.85      | <TS |
| 1018 | B  | 71  | 104    | 13                  | 02H      | 0.82      | <TS |
| 1019 | B  | 71  | 110    | 12                  | 04H      | -0.77     | <TS |
| 1020 | B  | 71  | 112    | 11                  | 04C      | 0.84      | <TS |
| 1021 | B  | 71  | 114    | 10                  | 02C      | -0.9      | <TS |
| 1022 | B  | 71  | 116    | 8                   | 03C      | -0.89     | <TS |
| 1023 | B  | 71  | 118    | 9                   | 02C      | -0.13     | <TS |
| 1024 | B  | 71  | 132    | 16                  | VS5      | 0.86      | <TS |
| 1025 | B  | 71  | 136    | 14                  | 06C      | -0.07     | <TS |
| 1026 | B  | 71  | 136    | 22                  | 06C      | -0.9      | <TS |
| 1027 | B  | 71  | 142    | 10                  | 06H      | -1.06     | <TS |
| 1028 | B  | 71  | 142    | 11                  | DBC      | 0.9       | <TS |
| 1029 | B  | 71  | 144    | 28                  | VS3      | -0.93     | <TS |
| 1030 | B  | 71  | 144    | 17                  | VS3      | 0.95      | <TS |
| 1031 | B  | 71  | 144    | 16                  | DBC      | 1.63      | <TS |
| 1032 | B  | 71  | 144    | 14                  | DBH      | 1.79      | <TS |
| 1033 | B  | 71  | 146    | 14                  | 06H      | 0.22      | <TS |
| 1034 | B  | 71  | 146    | 10                  | VS3      | 0.24      | <TS |
| 1035 | B  | 71  | 146    | 20                  | VS4      | 0.88      | <TS |
| 1036 | B  | 71  | 146    | 30                  | VS5      | -0.79     | <TS |
| 1037 | B  | 71  | 152    | 16                  | VS5      | 0.86      | <TS |
| 1038 | B  | 71  | 152    | 10                  | VS4      | 0.86      | <TS |
| 1039 | B  | 72  | 17     | 21                  | DBH      | 1.53      | <TS |
| 1040 | B  | 72  | 19     | 13                  | VS3      | 0.15      | <TS |
| 1041 | B  | 72  | 23     | 13                  | VS3      | 0.7       | <TS |
| 1042 | B  | 72  | 25     | 20                  | VS3      | -0.86     | <TS |
| 1043 | B  | 72  | 25     | 10                  | VS3      | -0.13     | <TS |
| 1044 | B  | 72  | 41     | 23                  | 06C      | 0.89      | <TS |
| 1045 | B  | 72  | 47     | 11                  | 03C      | -0.93     | <TS |
| 1046 | B  | 72  | 49     | 27                  | 03C      | 0.95      | <TS |
| 1047 | B  | 72  | 55     | 15                  | VS3      | -0.99     | <TS |
| 1048 | B  | 72  | 57     | 10                  | 03C      | -0.8      | <TS |
| 1049 | B  | 72  | 59     | 15                  | 04C      | 0.82      | <TS |
| 1050 | B  | 72  | 61     | 16                  | 02C      | 0.81      | <TS |
| 1051 | B  | 72  | 63     | 12                  | 02C      | 0.85      | <TS |
| 1052 | B  | 72  | 85     | 14                  | 05C      | 0.84      | <TS |
| 1053 | B  | 72  | 91     | 11                  | 02C      | 0.88      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1054 | B  | 72  | 109    | 13                  | 02H      | 0.86      | <TS |
| 1055 | B  | 72  | 109    | 14                  | 03H      | -0.9      | <TS |
| 1056 | B  | 72  | 113    | 13                  | 02H      | -0.88     | <TS |
| 1057 | B  | 72  | 113    | 9                   | 02H      | 0.9       | <TS |
| 1058 | B  | 72  | 113    | 11                  | 04H      | 0.82      | <TS |
| 1059 | B  | 72  | 113    | 12                  | 04C      | 0.88      | <TS |
| 1060 | B  | 72  | 125    | 22                  | 06C      | 0.92      | <TS |
| 1061 | B  | 72  | 129    | 18                  | VS5      | -0.82     | <TS |
| 1062 | B  | 72  | 139    | 10                  | VS3      | 0.87      | <TS |
| 1063 | B  | 72  | 149    | 18                  | VS3      | 0.93      | <TS |
| 1064 | B  | 72  | 149    | 26                  | DBH      | 1.79      | <TS |
| 1065 | B  | 73  | 14     | 11                  | VS4      | 0.26      | <TS |
| 1066 | B  | 73  | 14     | 10                  | VS4      | -0.99     | <TS |
| 1067 | B  | 73  | 20     | 16                  | VS5      | 0.8       | <TS |
| 1068 | B  | 73  | 40     | 9                   | 05H      | 1.01      | <TS |
| 1069 | B  | 73  | 46     | 8                   | 04C      | -0.91     | <TS |
| 1070 | B  | 73  | 58     | 12                  | 02C      | -0.18     | <TS |
| 1071 | B  | 73  | 58     | 14                  | 06C      | -0.2      | <TS |
| 1072 | B  | 73  | 86     | 13                  | 02C      | -0.9      | <TS |
| 1073 | B  | 73  | 104    | 18                  | 06C      | -0.96     | <TS |
| 1074 | B  | 73  | 106    | 12                  | 03H      | 0.92      | <TS |
| 1075 | B  | 73  | 132    | 13                  | 06H      | 0.88      | <TS |
| 1076 | B  | 73  | 152    | 10                  | VS4      | -1.03     | <TS |
| 1077 | B  | 73  | 152    | 8                   | VS4      | 0.33      | <TS |
| 1078 | B  | 74  | 17     | 30                  | VS3      | -0.89     | <TS |
| 1079 | B  | 74  | 17     | 16                  | VS3      | 0.89      | <TS |
| 1080 | B  | 74  | 17     | 28                  | VS4      | -0.97     | <TS |
| 1081 | B  | 74  | 19     | 12                  | DBC      | -1.33     | <TS |
| 1082 | B  | 74  | 19     | 15                  | VS4      | -0.95     | <TS |
| 1083 | B  | 74  | 21     | 12                  | VS3      | 1.18      | <TS |
| 1084 | B  | 74  | 23     | 21                  | VS3      | -1.01     | <TS |
| 1085 | B  | 74  | 23     | 20                  | VS4      | -0.89     | <TS |
| 1086 | B  | 74  | 23     | 20                  | DBC      | 1.2       | <TS |
| 1087 | B  | 74  | 29     | 13                  | 05H      | 0.95      | <TS |
| 1088 | B  | 74  | 35     | 17                  | DBH      | 1.38      | <TS |
| 1089 | B  | 74  | 37     | 14                  | 06H      | 0.93      | <TS |
| 1090 | B  | 74  | 37     | 13                  | 04C      | -0.89     | <TS |
| 1091 | B  | 74  | 37     | 11                  | DBC      | 1.49      | <TS |
| 1092 | B  | 74  | 43     | 14                  | VS3      | -0.84     | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1093 | B  | 74  | 43     | 20                  | VS4      | -0.8      | <TS |
| 1094 | B  | 74  | 45     | 20                  | VS5      | -0.77     | <TS |
| 1095 | B  | 74  | 47     | 9                   | 06C      | 0.09      | <TS |
| 1096 | B  | 74  | 51     | 11                  | 03C      | -0.89     | <TS |
| 1097 | B  | 74  | 53     | 11                  | VS3      | -0.8      | <TS |
| 1098 | B  | 74  | 55     | 20                  | 04C      | 0.84      | <TS |
| 1099 | B  | 74  | 55     | 14                  | 04C      | -0.97     | <TS |
| 1100 | B  | 74  | 71     | 13                  | 03H      | 0.92      | <TS |
| 1101 | B  | 74  | 75     | 15                  | VS4      | -0.64     | <TS |
| 1102 | B  | 74  | 107    | 14                  | 04H      | -0.94     | <TS |
| 1103 | B  | 74  | 111    | 16                  | 02C      | -0.9      | <TS |
| 1104 | B  | 74  | 115    | 11                  | 04C      | 0.91      | <TS |
| 1105 | B  | 74  | 117    | 10                  | VS4      | -0.77     | <TS |
| 1106 | B  | 74  | 117    | 14                  | VS3      | -1.1      | <TS |
| 1107 | B  | 74  | 119    | 16                  | 03H      | 0.81      | <TS |
| 1108 | B  | 74  | 119    | 19                  | 04H      | 1         | <TS |
| 1109 | B  | 74  | 127    | 21                  | DBH      | -1.49     | <TS |
| 1110 | B  | 74  | 141    | 19                  | VS5      | -0.7      | <TS |
| 1111 | B  | 74  | 151    | 11                  | VS3      | -0.9      | <TS |
| 1112 | B  | 75  | 16     | 13                  | 02H      | 0.88      | <TS |
| 1113 | B  | 75  | 16     | 13                  | 06H      | 0.9       | <TS |
| 1114 | B  | 75  | 24     | 16                  | VS3      | 0.8       | <TS |
| 1115 | B  | 75  | 24     | 15                  | VS3      | 0.15      | <TS |
| 1116 | B  | 75  | 24     | 12                  | VS4      | 0.77      | <TS |
| 1117 | B  | 75  | 24     | 14                  | DBC      | -1.38     | <TS |
| 1118 | B  | 75  | 36     | 18                  | VS3      | 0.8       | <TS |
| 1119 | B  | 75  | 42     | 17                  | 04C      | 0.86      | <TS |
| 1120 | B  | 75  | 54     | 10                  | 04C      | 0.88      | <TS |
| 1121 | B  | 75  | 60     | 14                  | 03C      | 0.82      | <TS |
| 1122 | B  | 75  | 84     | 15                  | 02C      | -0.83     | <TS |
| 1123 | B  | 75  | 84     | 8                   | 02C      | 0.83      | <TS |
| 1124 | B  | 75  | 102    | 13                  | 04H      | 0.89      | <TS |
| 1125 | B  | 75  | 104    | 18                  | 03H      | 0.91      | <TS |
| 1126 | B  | 75  | 106    | 13                  | 02H      | -0.92     | <TS |
| 1127 | B  | 75  | 106    | 10                  | 05H      | -0.81     | <TS |
| 1128 | B  | 75  | 106    | 13                  | 04C      | -0.88     | <TS |
| 1129 | B  | 75  | 110    | 13                  | 04C      | -0.92     | <TS |
| 1130 | B  | 75  | 112    | 9                   | 03H      | -0.83     | <TS |
| 1131 | B  | 75  | 132    | 12                  | 06H      | -0.88     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1132 | B  | 75  | 132    | 10                  | DBH      | -1.76     | <TS |
| 1133 | B  | 75  | 142    | 10                  | DBC      | 1.01      | <TS |
| 1134 | B  | 75  | 150    | 15                  | 04C      | 0.91      | <TS |
| 1135 | B  | 76  | 15     | 22                  | DBH      | 1.92      | <TS |
| 1136 | B  | 76  | 21     | 13                  | VS3      | 1.04      | <TS |
| 1137 | B  | 76  | 21     | 14                  | VS4      | -0.84     | <TS |
| 1138 | B  | 76  | 21     | 26                  | VS4      | 0.9       | <TS |
| 1139 | B  | 76  | 25     | 12                  | 06H      | 0.95      | <TS |
| 1140 | B  | 76  | 27     | 8                   | 06H      | -0.88     | <TS |
| 1141 | B  | 76  | 29     | 10                  | DBC      | 1.31      | <TS |
| 1142 | B  | 76  | 29     | 22                  | VS4      | 0.04      | <TS |
| 1143 | B  | 76  | 29     | 19                  | VS3      | 0.64      | <TS |
| 1144 | B  | 76  | 29     | 20                  | VS3      | 0.09      | <TS |
| 1145 | B  | 76  | 29     | 14                  | VS3      | -0.82     | <TS |
| 1146 | B  | 76  | 33     | 17                  | DBH      | 2.06      | <TS |
| 1147 | B  | 76  | 35     | 19                  | DBH      | 1.7       | <TS |
| 1148 | B  | 76  | 41     | 11                  | 03C      | -0.09     | <TS |
| 1149 | B  | 76  | 41     | 10                  | 05C      | -0.95     | <TS |
| 1150 | B  | 76  | 51     | 19                  | VS3      | 1.04      | <TS |
| 1151 | B  | 76  | 53     | 8                   | 03C      | -0.13     | <TS |
| 1152 | B  | 76  | 55     | 14                  | DBH      | 1.63      | <TS |
| 1153 | B  | 76  | 59     | 12                  | 05H      | 1.03      | <TS |
| 1154 | B  | 76  | 59     | 15                  | VS3      | -0.86     | <TS |
| 1155 | B  | 76  | 65     | 11                  | VS4      | -0.18     | <TS |
| 1156 | B  | 76  | 73     | 8                   | 02H      | -0.08     | <TS |
| 1157 | B  | 76  | 111    | 11                  | 04C      | 0.84      | <TS |
| 1158 | B  | 76  | 113    | 8                   | 04H      | 0.17      | <TS |
| 1159 | B  | 76  | 115    | 7                   | 03H      | -0.15     | <TS |
| 1160 | B  | 76  | 117    | 11                  | DBC      | -1        | <TS |
| 1161 | B  | 76  | 121    | 16                  | 04C      | 0.86      | <TS |
| 1162 | B  | 76  | 123    | 9                   | 03H      | 0.89      | <TS |
| 1163 | B  | 76  | 127    | 11                  | DBH      | -1.63     | <TS |
| 1164 | B  | 76  | 135    | 13                  | VS5      | 0.83      | <TS |
| 1165 | B  | 76  | 141    | 27                  | DBH      | 1.78      | <TS |
| 1166 | B  | 76  | 151    | 14                  | 04C      | 0.88      | <TS |
| 1167 | B  | 77  | 34     | 12                  | VS3      | 0.09      | <TS |
| 1168 | B  | 77  | 34     | 24                  | VS3      | 0.78      | <TS |
| 1169 | B  | 77  | 48     | 16                  | VS4      | 0.95      | <TS |
| 1170 | B  | 77  | 50     | 13                  | 05H      | -0.99     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1171 | B  | 77  | 56     | 10                  | DBH      | 1.13      | <TS |
| 1172 | B  | 77  | 86     | 15                  | 02C      | 0.83      | <TS |
| 1173 | B  | 77  | 86     | 8                   | 02C      | -0.92     | <TS |
| 1174 | B  | 77  | 104    | 20                  | 05H      | 0.87      | <TS |
| 1175 | B  | 77  | 104    | 20                  | 05C      | 0.85      | <TS |
| 1176 | B  | 77  | 116    | 17                  | 04H      | -0.92     | <TS |
| 1177 | B  | 77  | 122    | 13                  | 03H      | 0.87      | <TS |
| 1178 | B  | 77  | 150    | 18                  | DBH      | 1.43      | <TS |
| 1179 | B  | 77  | 150    | 13                  | VS3      | -0.79     | <TS |
| 1180 | B  | 77  | 150    | 18                  | VS4      | -0.88     | <TS |
| 1181 | B  | 77  | 150    | 24                  | VS4      | 0.9       | <TS |
| 1182 | B  | 78  | 23     | 20                  | DBH      | -1.51     | <TS |
| 1183 | B  | 78  | 33     | 16                  | 03C      | 0.89      | <TS |
| 1184 | B  | 78  | 35     | 16                  | DBH      | -1.18     | <TS |
| 1185 | B  | 78  | 47     | 20                  | 02C      | 0.89      | <TS |
| 1186 | B  | 78  | 57     | 21                  | 03C      | 0.92      | <TS |
| 1187 | B  | 78  | 61     | 22                  | VS3      | -0.92     | <TS |
| 1188 | B  | 78  | 79     | 13                  | VS4      | 0.91      | <TS |
| 1189 | B  | 78  | 81     | 11                  | 03H      | 0.89      | <TS |
| 1190 | B  | 78  | 87     | 13                  | 03C      | -0.83     | <TS |
| 1191 | B  | 78  | 91     | 17                  | 07H      | 1.52      | <TS |
| 1192 | B  | 78  | 105    | 12                  | 02H      | -0.89     | <TS |
| 1193 | B  | 78  | 109    | 11                  | 02H      | -0.81     | <TS |
| 1194 | B  | 78  | 109    | 11                  | 03H      | 0.15      | <TS |
| 1195 | B  | 78  | 109    | 15                  | 03H      | 0.87      | <TS |
| 1196 | B  | 78  | 137    | 13                  | 04C      | -0.9      | <TS |
| 1197 | B  | 78  | 139    | 12                  | DBH      | 1.76      | <TS |
| 1198 | B  | 78  | 141    | 12                  | VS3      | -0.86     | <TS |
| 1199 | B  | 78  | 141    | 10                  | VS4      | -0.77     | <TS |
| 1200 | B  | 78  | 145    | 14                  | VS5      | 0.13      | <TS |
| 1201 | B  | 79  | 24     | 15                  | VS3      | -0.78     | <TS |
| 1202 | B  | 79  | 24     | 15                  | VS3      | 0.92      | <TS |
| 1203 | B  | 79  | 24     | 28                  | VS4      | 0         | <TS |
| 1204 | B  | 79  | 24     | 30                  | VS4      | 0.74      | <TS |
| 1205 | B  | 79  | 30     | 11                  | DBC      | 1.56      | <TS |
| 1206 | B  | 79  | 44     | 10                  | 04C      | -0.86     | <TS |
| 1207 | B  | 79  | 44     | 12                  | 03C      | 0.86      | <TS |
| 1208 | B  | 79  | 52     | 13                  | 02C      | -0.26     | <TS |
| 1209 | B  | 79  | 54     | 12                  | 03C      | 0.82      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1210 | B  | 79  | 60     | 12                  | 03C      | -0.95     | <TS |
| 1211 | B  | 79  | 62     | 12                  | 04C      | -0.96     | <TS |
| 1212 | B  | 79  | 62     | 11                  | 02C      | -0.2      | <TS |
| 1213 | B  | 79  | 78     | 10                  | VS5      | 0.86      | <TS |
| 1214 | B  | 79  | 86     | 14                  | 03H      | 0.84      | <TS |
| 1215 | B  | 79  | 86     | 12                  | 03C      | 0.86      | <TS |
| 1216 | B  | 79  | 108    | 15                  | 05H      | 0.74      | <TS |
| 1217 | B  | 79  | 122    | 20                  | 03H      | 1.02      | <TS |
| 1218 | B  | 79  | 128    | 13                  | 03C      | 0.86      | <TS |
| 1219 | B  | 79  | 150    | 10                  | 03C      | -0.9      | <TS |
| 1220 | B  | 80  | 17     | 30                  | DBH      | 1.59      | <TS |
| 1221 | B  | 80  | 49     | 15                  | VS3      | -0.82     | <TS |
| 1222 | B  | 80  | 49     | 13                  | VS4      | -0.77     | <TS |
| 1223 | B  | 80  | 95     | 12                  | 02H      | 0.82      | <TS |
| 1224 | B  | 80  | 95     | 16                  | 03H      | 0.87      | <TS |
| 1225 | B  | 80  | 95     | 18                  | 04H      | 0.88      | <TS |
| 1226 | B  | 80  | 97     | 14                  | VS3      | -0.2      | <TS |
| 1227 | B  | 80  | 115    | 14                  | VS3      | 0.91      | <TS |
| 1228 | B  | 80  | 115    | 19                  | VS4      | -0.87     | <TS |
| 1229 | B  | 80  | 129    | 13                  | 03H      | 0.9       | <TS |
| 1230 | B  | 80  | 145    | 29                  | VS4      | -0.73     | <TS |
| 1231 | B  | 80  | 145    | 16                  | VS5      | 0.84      | <TS |
| 1232 | B  | 80  | 145    | 12                  | VS5      | -0.89     | <TS |
| 1233 | B  | 80  | 149    | 15                  | 01H      | -0.84     | <TS |
| 1234 | B  | 81  | 22     | 29                  | VS3      | 0.89      | <TS |
| 1235 | B  | 81  | 22     | 28                  | VS4      | 0.8       | <TS |
| 1236 | B  | 81  | 24     | 16                  | VS3      | -0.85     | <TS |
| 1237 | B  | 81  | 24     | 13                  | VS3      | 0.89      | <TS |
| 1238 | B  | 81  | 52     | 31                  | VS3      | 0.84      | <TS |
| 1239 | B  | 81  | 60     | 15                  | 03C      | 0.81      | <TS |
| 1240 | B  | 81  | 92     | 13                  | 02C      | -0.88     | <TS |
| 1241 | B  | 81  | 110    | 12                  | 03H      | 0.88      | <TS |
| 1242 | B  | 81  | 112    | 16                  | 02H      | 0.9       | <TS |
| 1243 | B  | 81  | 114    | 14                  | 03H      | 0.81      | <TS |
| 1244 | B  | 81  | 124    | 12                  | 03C      | -0.86     | <TS |
| 1245 | B  | 81  | 126    | 20                  | 07C      | 0.77      | <TS |
| 1246 | B  | 81  | 148    | 15                  | VS4      | -0.86     | <TS |
| 1247 | B  | 81  | 148    | 17                  | VS4      | 0.9       | <TS |
| 1248 | B  | 81  | 148    | 17                  | 04C      | 0.88      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1249 | B  | 81  | 148    | 10                  | 03C      | 0.85      | <TS |
| 1250 | B  | 82  | 19     | 18                  | 03H      | 0.85      | <TS |
| 1251 | B  | 82  | 19     | 18                  | 04H      | 0.84      | <TS |
| 1252 | B  | 82  | 19     | 13                  | VS4      | 0.84      | <TS |
| 1253 | B  | 82  | 21     | 14                  | VS5      | -0.85     | <TS |
| 1254 | B  | 82  | 41     | 21                  | VS3      | 1.02      | <TS |
| 1255 | B  | 82  | 43     | 8                   | VS3      | -0.69     | <TS |
| 1256 | B  | 82  | 43     | 20                  | VS3      | 0.18      | <TS |
| 1257 | B  | 82  | 43     | 22                  | VS3      | 0.75      | <TS |
| 1258 | B  | 82  | 43     | 12                  | VS4      | -0.86     | <TS |
| 1259 | B  | 82  | 43     | 8                   | VS4      | -0.16     | <TS |
| 1260 | B  | 82  | 43     | 16                  | VS4      | 0.73      | <TS |
| 1261 | B  | 82  | 43     | 28                  | VS5      | -0.73     | <TS |
| 1262 | B  | 82  | 43     | 21                  | VS5      | -0.16     | <TS |
| 1263 | B  | 82  | 43     | 24                  | VS5      | 0.16      | <TS |
| 1264 | B  | 82  | 43     | 16                  | VS5      | 0.78      | <TS |
| 1265 | B  | 82  | 53     | 11                  | 05C      | 0.95      | <TS |
| 1266 | B  | 82  | 59     | 15                  | 02C      | 0.9       | <TS |
| 1267 | B  | 82  | 79     | 13                  | 04H      | 0.86      | <TS |
| 1268 | B  | 82  | 91     | 15                  | 04C      | -0.79     | <TS |
| 1269 | B  | 82  | 105    | 10                  | 02H      | 0.96      | <TS |
| 1270 | B  | 82  | 111    | 14                  | 04C      | -0.9      | <TS |
| 1271 | B  | 82  | 129    | 15                  | DBH      | 1.78      | <TS |
| 1272 | B  | 82  | 137    | 16                  | DBH      | 1.82      | <TS |
| 1273 | B  | 82  | 143    | 28                  | VS3      | -0.86     | <TS |
| 1274 | B  | 82  | 143    | 15                  | VS4      | -0.84     | <TS |
| 1275 | B  | 82  | 145    | 23                  | VS3      | -0.83     | <TS |
| 1276 | B  | 82  | 145    | 21                  | VS3      | 0.94      | <TS |
| 1277 | B  | 82  | 145    | 17                  | VS4      | -0.9      | <TS |
| 1278 | B  | 82  | 145    | 29                  | VS4      | 0.88      | <TS |
| 1279 | B  | 83  | 26     | 8                   | 06H      | -1.04     | <TS |
| 1280 | B  | 83  | 28     | 20                  | VS6      | -1        | <TS |
| 1281 | B  | 83  | 28     | 16                  | VS6      | 0.84      | <TS |
| 1282 | B  | 83  | 52     | 9                   | 02C      | -0.9      | <TS |
| 1283 | B  | 83  | 54     | 14                  | 04H      | 0.93      | <TS |
| 1284 | B  | 83  | 64     | 16                  | 03C      | 0.94      | <TS |
| 1285 | B  | 83  | 78     | 13                  | 02C      | 0.86      | <TS |
| 1286 | B  | 83  | 78     | 13                  | 01C      | 0.84      | <TS |
| 1287 | B  | 83  | 106    | 14                  | 03H      | 0.9       | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1288 | B  | 83  | 108    | 12                  | 04C      | -0.89     | <TS |
| 1289 | B  | 83  | 114    | 11                  | 02H      | 0.88      | <TS |
| 1290 | B  | 83  | 130    | 10                  | DBC      | -1.21     | <TS |
| 1291 | B  | 83  | 130    | 10                  | DBH      | 1.5       | <TS |
| 1292 | B  | 83  | 140    | 11                  | VS3      | -0.84     | <TS |
| 1293 | B  | 83  | 148    | 28                  | VS4      | -1.02     | <TS |
| 1294 | B  | 84  | 19     | 19                  | 07H      | -0.99     | <TS |
| 1295 | B  | 84  | 25     | 7                   | VS2      | -0.75     | <TS |
| 1296 | B  | 84  | 47     | 11                  | VS6      | 0.71      | <TS |
| 1297 | B  | 84  | 49     | 8                   | 04C      | -0.91     | <TS |
| 1298 | B  | 84  | 55     | 14                  | 02C      | 0.82      | <TS |
| 1299 | B  | 84  | 73     | 13                  | 04H      | 0.94      | <TS |
| 1300 | B  | 84  | 77     | 13                  | 05C      | -0.9      | <TS |
| 1301 | B  | 84  | 79     | 8                   | 03H      | 0.94      | <TS |
| 1302 | B  | 84  | 81     | 10                  | 02C      | 0.85      | <TS |
| 1303 | B  | 84  | 87     | 15                  | 03H      | 0.89      | <TS |
| 1304 | B  | 84  | 87     | 13                  | 04C      | 0.92      | <TS |
| 1305 | B  | 84  | 93     | 15                  | 02C      | -0.9      | <TS |
| 1306 | B  | 84  | 103    | 7                   | 04C      | 0.44      | <TS |
| 1307 | B  | 84  | 107    | 13                  | 02H      | -0.83     | <TS |
| 1308 | B  | 84  | 111    | 12                  | 04H      | -0.92     | <TS |
| 1309 | B  | 84  | 111    | 8                   | 05H      | 0.96      | <TS |
| 1310 | B  | 84  | 125    | 12                  | 04H      | -0.92     | <TS |
| 1311 | B  | 84  | 125    | 9                   | VS2      | -0.92     | <TS |
| 1312 | B  | 84  | 145    | 14                  | 03C      | -0.86     | <TS |
| 1313 | B  | 84  | 147    | 11                  | 07H      | 0.77      | <TS |
| 1314 | B  | 84  | 147    | 26                  | DBH      | 1.77      | <TS |
| 1315 | B  | 85  | 20     | 14                  | VS4      | -0.84     | <TS |
| 1316 | B  | 85  | 20     | 17                  | VS4      | 0.91      | <TS |
| 1317 | B  | 85  | 36     | 15                  | 04H      | -0.88     | <TS |
| 1318 | B  | 85  | 36     | 21                  | VS6      | -0.91     | <TS |
| 1319 | B  | 85  | 78     | 14                  | 05H      | 0.93      | <TS |
| 1320 | B  | 85  | 80     | 10                  | 01H      | 0.87      | <TS |
| 1321 | B  | 85  | 82     | 12                  | VS6      | -0.83     | <TS |
| 1322 | B  | 85  | 110    | 16                  | 04C      | 0.87      | <TS |
| 1323 | B  | 85  | 112    | 14                  | 03H      | 0.49      | <TS |
| 1324 | B  | 85  | 140    | 14                  | 04C      | 0.86      | <TS |
| 1325 | B  | 85  | 142    | 20                  | 03C      | -0.85     | <TS |
| 1326 | B  | 85  | 144    | 17                  | 03C      | -0.88     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1327 | B  | 85  | 146    | 12                  | 04C      | -0.92     | <TS |
| 1328 | B  | 85  | 146    | 16                  | 03C      | -0.9      | <TS |
| 1329 | B  | 86  | 21     | 16                  | 01C      | -0.88     | <TS |
| 1330 | B  | 86  | 31     | 12                  | 06H      | 0.84      | <TS |
| 1331 | B  | 86  | 33     | 14                  | 06H      | 0.89      | <TS |
| 1332 | B  | 86  | 51     | 19                  | 03C      | 0.9       | <TS |
| 1333 | B  | 86  | 61     | 8                   | 02C      | 0.13      | <TS |
| 1334 | B  | 86  | 67     | 11                  | 03C      | -0.87     | <TS |
| 1335 | B  | 86  | 79     | 12                  | 04H      | 0.9       | <TS |
| 1336 | B  | 86  | 89     | 15                  | 03C      | 0.81      | <TS |
| 1337 | B  | 86  | 91     | 7                   | 03C      | -0.88     | <TS |
| 1338 | B  | 86  | 111    | 13                  | 04C      | -0.87     | <TS |
| 1339 | B  | 86  | 145    | 16                  | 03C      | 0.9       | <TS |
| 1340 | B  | 87  | 20     | 16                  | VS4      | -0.86     | <TS |
| 1341 | B  | 87  | 30     | 13                  | 04H      | 0.94      | <TS |
| 1342 | B  | 87  | 38     | 15                  | VS6      | -0.69     | <TS |
| 1343 | B  | 87  | 62     | 12                  | 04C      | -0.9      | <TS |
| 1344 | B  | 87  | 74     | 10                  | 07H      | 0.94      | <TS |
| 1345 | B  | 87  | 82     | 15                  | 03H      | 0.89      | <TS |
| 1346 | B  | 87  | 84     | 13                  | 02C      | 0.9       | <TS |
| 1347 | B  | 87  | 88     | 20                  | 04C      | -0.86     | <TS |
| 1348 | B  | 87  | 106    | 11                  | 03H      | -0.79     | <TS |
| 1349 | B  | 87  | 116    | 15                  | 04C      | 0.84      | <TS |
| 1350 | B  | 87  | 146    | 20                  | VS4      | -0.93     | <TS |
| 1351 | B  | 87  | 146    | 16                  | VS4      | 0.95      | <TS |
| 1352 | B  | 87  | 146    | 32                  | 03C      | 0.8       | <TS |
| 1353 | B  | 88  | 27     | 11                  | 04H      | 0.81      | <TS |
| 1354 | B  | 88  | 27     | 21                  | DBH      | 1.99      | <TS |
| 1355 | B  | 88  | 29     | 14                  | 06H      | 0.86      | <TS |
| 1356 | B  | 88  | 67     | 12                  | VS2      | -0.86     | <TS |
| 1357 | B  | 88  | 67     | 15                  | VS2      | 0.83      | <TS |
| 1358 | B  | 88  | 79     | 13                  | 07C      | 0.88      | <TS |
| 1359 | B  | 88  | 87     | 15                  | 05C      | 0.86      | <TS |
| 1360 | B  | 88  | 95     | 21                  | 03C      | 0.86      | <TS |
| 1361 | B  | 88  | 107    | 14                  | 04C      | -0.92     | <TS |
| 1362 | B  | 88  | 117    | 12                  | 04C      | -0.9      | <TS |
| 1363 | B  | 88  | 133    | 10                  | 04H      | -0.04     | <TS |
| 1364 | B  | 89  | 38     | 9                   | 05H      | -0.86     | <TS |
| 1365 | B  | 89  | 38     | 12                  | VS2      | -0.97     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1366 | B  | 89  | 42     | 13               | VS6      | 0.91      | <TS |
| 1367 | B  | 89  | 44     | 15               | VS2      | -0.86     | <TS |
| 1368 | B  | 89  | 44     | 15               | VS6      | -0.86     | <TS |
| 1369 | B  | 89  | 54     | 12               | 06H      | -0.89     | <TS |
| 1370 | B  | 89  | 56     | 12               | 02C      | 0.92      | <TS |
| 1371 | B  | 89  | 56     | 9                | 02C      | -0.18     | <TS |
| 1372 | B  | 89  | 58     | 8                | DBC      | 1.75      | <TS |
| 1373 | B  | 89  | 60     | 16               | 04C      | -0.92     | <TS |
| 1374 | B  | 89  | 78     | 14               | 07C      | 0.85      | <TS |
| 1375 | B  | 89  | 82     | 14               | 07C      | 0.88      | <TS |
| 1376 | B  | 89  | 84     | 16               | 03H      | 0.86      | <TS |
| 1377 | B  | 89  | 92     | 20               | 04C      | 0.46      | <TS |
| 1378 | B  | 89  | 100    | 12               | 03H      | 0.89      | <TS |
| 1379 | B  | 89  | 104    | 13               | 05C      | -0.9      | <TS |
| 1380 | B  | 89  | 104    | 15               | 04C      | -0.86     | <TS |
| 1381 | B  | 89  | 104    | 13               | 04H      | 0.89      | <TS |
| 1382 | B  | 89  | 134    | 16               | 04H      | 0.94      | <TS |
| 1383 | B  | 89  | 140    | 11               | DBC      | 1.46      | <TS |
| 1384 | B  | 89  | 144    | 13               | 01H      | -0.8      | <TS |
| 1385 | B  | 90  | 23     | 14               | VS4      | -0.98     | <TS |
| 1386 | B  | 90  | 31     | 12               | VS2      | -0.93     | <TS |
| 1387 | B  | 90  | 55     | 16               | VS2      | 0.97      | <TS |
| 1388 | B  | 90  | 55     | 11               | 02C      | -0.88     | <TS |
| 1389 | B  | 90  | 57     | 14               | 02C      | 0.88      | <TS |
| 1390 | B  | 90  | 65     | 16               | 03C      | 0.83      | <TS |
| 1391 | B  | 90  | 69     | 12               | 07H      | -1.01     | <TS |
| 1392 | B  | 90  | 87     | 11               | 02C      | -0.88     | <TS |
| 1393 | B  | 90  | 87     | 12               | 02C      | -0.2      | <TS |
| 1394 | B  | 90  | 89     | 11               | 03H      | 0.91      | <TS |
| 1395 | B  | 90  | 95     | 18               | 04C      | 0.94      | <TS |
| 1396 | B  | 90  | 97     | 14               | 04C      | 0.92      | <TS |
| 1397 | B  | 90  | 115    | 13               | 03H      | -0.87     | <TS |
| 1398 | B  | 90  | 127    | 18               | 04H      | -0.87     | <TS |
| 1399 | B  | 90  | 131    | 12               | 07H      | 0.92      | <TS |
| 1400 | B  | 91  | 22     | 28               | VS6      | 0.97      | <TS |
| 1401 | B  | 91  | 26     | 13               | 02C      | 0.91      | <TS |
| 1402 | B  | 91  | 32     | 16               | 02C      | -0.91     | <TS |
| 1403 | B  | 91  | 38     | 14               | 03H      | -0.9      | <TS |
| 1404 | B  | 91  | 54     | 12               | 02C      | 0.91      | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1405 | B  | 91  | 58     | 16                  | 03C      | 0.85      | <TS |
| 1406 | B  | 91  | 60     | 11                  | 03C      | -0.92     | <TS |
| 1407 | B  | 91  | 60     | 9                   | 04C      | -0.9      | <TS |
| 1408 | B  | 91  | 64     | 20                  | 03C      | -0.9      | <TS |
| 1409 | B  | 91  | 70     | 10                  | 04H      | 0.94      | <TS |
| 1410 | B  | 91  | 70     | 10                  | 06C      | -0.92     | <TS |
| 1411 | B  | 91  | 86     | 15                  | VS6      | 0.92      | <TS |
| 1412 | B  | 91  | 88     | 16                  | 04H      | -0.9      | <TS |
| 1413 | B  | 91  | 88     | 10                  | 03C      | 0.86      | <TS |
| 1414 | B  | 91  | 94     | 13                  | 06C      | -0.88     | <TS |
| 1415 | B  | 91  | 98     | 11                  | 03C      | 0.86      | <TS |
| 1416 | B  | 91  | 124    | 17                  | 04C      | 0.9       | <TS |
| 1417 | B  | 91  | 140    | 12                  | 04H      | 0.83      | <TS |
| 1418 | B  | 91  | 144    | 15                  | VS4      | -0.9      | <TS |
| 1419 | B  | 91  | 144    | 16                  | VS4      | 0.83      | <TS |
| 1420 | B  | 92  | 23     | 9                   | VS4      | -0.9      | <TS |
| 1421 | B  | 92  | 23     | 11                  | VS4      | 0.73      | <TS |
| 1422 | B  | 92  | 23     | 12                  | 02C      | 0.79      | <TS |
| 1423 | B  | 92  | 23     | 8                   | 02C      | -0.61     | <TS |
| 1424 | B  | 92  | 23     | 9                   | 03H      | -0.86     | <TS |
| 1425 | B  | 92  | 31     | 16                  | VS2      | -1        | <TS |
| 1426 | B  | 92  | 31     | 12                  | VS2      | 0.98      | <TS |
| 1427 | B  | 92  | 35     | 9                   | 05H      | 0.85      | <TS |
| 1428 | B  | 92  | 49     | 13                  | 05H      | 0.96      | <TS |
| 1429 | B  | 92  | 55     | 14                  | 03C      | 0.83      | <TS |
| 1430 | B  | 92  | 57     | 14                  | 04H      | 0.79      | <TS |
| 1431 | B  | 92  | 61     | 11                  | 03C      | -0.92     | <TS |
| 1432 | B  | 92  | 69     | 15                  | 04C      | 0.92      | <TS |
| 1433 | B  | 92  | 73     | 8                   | VS2      | 0.86      | <TS |
| 1434 | B  | 92  | 75     | 7                   | 05H      | 0.93      | <TS |
| 1435 | B  | 92  | 81     | 7                   | DBH      | -1.8      | <TS |
| 1436 | B  | 92  | 83     | 19                  | 05H      | 0.93      | <TS |
| 1437 | B  | 92  | 85     | 10                  | 03H      | -0.89     | <TS |
| 1438 | B  | 92  | 89     | 12                  | 04H      | 0.85      | <TS |
| 1439 | B  | 92  | 97     | 11                  | 04C      | 0.09      | <TS |
| 1440 | B  | 92  | 97     | 17                  | 04C      | 0.88      | <TS |
| 1441 | B  | 92  | 99     | 11                  | 04C      | -0.83     | <TS |
| 1442 | B  | 92  | 105    | 13                  | 04C      | -0.86     | <TS |
| 1443 | B  | 92  | 111    | 10                  | 07C      | 0.83      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1444 | B  | 92  | 125    | 13                  | VS2      | 0.85      | <TS |
| 1445 | B  | 93  | 30     | 18                  | VS4      | -0.91     | <TS |
| 1446 | B  | 93  | 42     | 13                  | VS2      | 0.75      | <TS |
| 1447 | B  | 93  | 56     | 12                  | 02C      | 0.9       | <TS |
| 1448 | B  | 93  | 62     | 14                  | 03C      | 0.94      | <TS |
| 1449 | B  | 93  | 62     | 12                  | 02C      | 0.9       | <TS |
| 1450 | B  | 93  | 80     | 12                  | 03C      | -0.72     | <TS |
| 1451 | B  | 93  | 98     | 10                  | 04C      | -0.9      | <TS |
| 1452 | B  | 93  | 104    | 14                  | 04H      | -0.82     | <TS |
| 1453 | B  | 93  | 112    | 11                  | 03H      | 0.85      | <TS |
| 1454 | B  | 93  | 112    | 16                  | VS6      | 0.68      | <TS |
| 1455 | B  | 93  | 130    | 10                  | 04H      | 0.9       | <TS |
| 1456 | B  | 93  | 132    | 15                  | 04H      | 0.9       | <TS |
| 1457 | B  | 93  | 136    | 11                  | 03C      | 0.86      | <TS |
| 1458 | B  | 94  | 37     | 16                  | VS2      | -0.86     | <TS |
| 1459 | B  | 94  | 53     | 13                  | 05H      | -0.84     | <TS |
| 1460 | B  | 94  | 57     | 13                  | 03C      | 0.79      | <TS |
| 1461 | B  | 94  | 57     | 16                  | 02C      | 0.75      | <TS |
| 1462 | B  | 94  | 81     | 12                  | 02C      | 0.86      | <TS |
| 1463 | B  | 94  | 93     | 13                  | 03C      | -0.86     | <TS |
| 1464 | B  | 94  | 93     | 13                  | 04C      | -0.11     | <TS |
| 1465 | B  | 94  | 93     | 10                  | 04C      | -0.88     | <TS |
| 1466 | B  | 94  | 101    | 16                  | 06H      | -0.93     | <TS |
| 1467 | B  | 94  | 111    | 18                  | VS6      | -0.77     | <TS |
| 1468 | B  | 94  | 115    | 11                  | 04C      | -0.94     | <TS |
| 1469 | B  | 94  | 129    | 17                  | 04H      | 0.88      | <TS |
| 1470 | B  | 94  | 131    | 14                  | 03C      | -0.86     | <TS |
| 1471 | B  | 94  | 137    | 13                  | VS4      | -0.84     | <TS |
| 1472 | B  | 95  | 24     | 19                  | VS4      | -0.78     | <TS |
| 1473 | B  | 95  | 24     | 12                  | VS4      | -0.13     | <TS |
| 1474 | B  | 95  | 24     | 14                  | VS4      | 0.72      | <TS |
| 1475 | B  | 95  | 36     | 16                  | VS4      | -0.88     | <TS |
| 1476 | B  | 95  | 36     | 17                  | VS4      | 0.91      | <TS |
| 1477 | B  | 95  | 42     | 19                  | DBC      | -0.33     | <TS |
| 1478 | B  | 95  | 70     | 12                  | 04H      | 0.85      | <TS |
| 1479 | B  | 95  | 70     | 17                  | VS6      | -0.97     | <TS |
| 1480 | B  | 95  | 84     | 11                  | 07C      | 0.07      | <TS |
| 1481 | B  | 95  | 84     | 17                  | 07C      | 0.9       | <TS |
| 1482 | B  | 95  | 88     | 12                  | 02C      | 0.83      | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1483 | B  | 95  | 102    | 17                  | 05H      | 0.82      | <TS |
| 1484 | B  | 95  | 104    | 15                  | 03H      | -0.87     | <TS |
| 1485 | B  | 95  | 104    | 9                   | 03C      | 0.13      | <TS |
| 1486 | B  | 95  | 106    | 19                  | 04C      | -0.87     | <TS |
| 1487 | B  | 95  | 116    | 20                  | VS2      | -1.08     | <TS |
| 1488 | B  | 95  | 126    | 11                  | 04H      | 0.91      | <TS |
| 1489 | B  | 95  | 134    | 18                  | VS2      | 0.9       | <TS |
| 1490 | B  | 95  | 134    | 12                  | VS2      | 0.12      | <TS |
| 1491 | B  | 95  | 136    | 19                  | 03C      | -0.37     | <TS |
| 1492 | B  | 95  | 138    | 39                  | VS4      | 0.92      | <TS |
| 1493 | B  | 95  | 138    | 14                  | 03C      | 0.79      | <TS |
| 1494 | B  | 95  | 138    | 19                  | VS4      | -0.79     | <TS |
| 1495 | B  | 95  | 138    | 16                  | VS2      | 0.13      | <TS |
| 1496 | B  | 95  | 140    | 17                  | 03C      | -0.94     | <TS |
| 1497 | B  | 95  | 142    | 22                  | VS4      | 0.75      | <TS |
| 1498 | B  | 95  | 142    | 14                  | VS6      | -0.79     | <TS |
| 1499 | B  | 96  | 25     | 11                  | 02H      | -1.02     | <TS |
| 1500 | B  | 96  | 29     | 17                  | VS4      | 0.8       | <TS |
| 1501 | B  | 96  | 53     | 13                  | 05H      | 0.83      | <TS |
| 1502 | B  | 96  | 57     | 13                  | 02H      | 0.84      | <TS |
| 1503 | B  | 96  | 57     | 16                  | VS4      | 1.14      | <TS |
| 1504 | B  | 96  | 61     | 13                  | 02H      | 0.87      | <TS |
| 1505 | B  | 96  | 65     | 13                  | 04C      | 0.81      | <TS |
| 1506 | B  | 96  | 65     | 13                  | 02C      | 0.77      | <TS |
| 1507 | B  | 96  | 71     | 9                   | 04H      | -0.09     | <TS |
| 1508 | B  | 96  | 71     | 16                  | 04H      | -0.94     | <TS |
| 1509 | B  | 96  | 79     | 9                   | VS2      | 0.7       | <TS |
| 1510 | B  | 96  | 95     | 21                  | VS2      | -0.97     | <TS |
| 1511 | B  | 96  | 95     | 13                  | VS2      | 0.11      | <TS |
| 1512 | B  | 96  | 95     | 21                  | VS2      | 0.75      | <TS |
| 1513 | B  | 96  | 103    | 15                  | 04C      | 0.9       | <TS |
| 1514 | B  | 96  | 117    | 19                  | VS2      | 0.85      | <TS |
| 1515 | B  | 96  | 133    | 9                   | 03H      | -0.96     | <TS |
| 1516 | B  | 96  | 133    | 8                   | 04H      | -0.06     | <TS |
| 1517 | B  | 96  | 137    | 15                  | VS4      | -0.26     | <TS |
| 1518 | B  | 96  | 137    | 23                  | VS4      | 0.9       | <TS |
| 1519 | B  | 96  | 137    | 18                  | 04C      | -0.15     | <TS |
| 1520 | B  | 96  | 137    | 13                  | 03C      | 0.89      | <TS |
| 1521 | B  | 96  | 139    | 19                  | 03C      | -0.94     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1522 | B  | 96  | 141    | 17                  | VS2      | 0.79      | <TS |
| 1523 | B  | 96  | 141    | 22                  | VS4      | 1         | <TS |
| 1524 | B  | 97  | 26     | 17                  | VS4      | -0.72     | <TS |
| 1525 | B  | 97  | 28     | 22                  | 03C      | 0.9       | <TS |
| 1526 | B  | 97  | 34     | 12                  | VS6      | -0.84     | <TS |
| 1527 | B  | 97  | 38     | 10                  | 05H      | 0.87      | <TS |
| 1528 | B  | 97  | 40     | 15                  | VS2      | -0.77     | <TS |
| 1529 | B  | 97  | 42     | 13                  | VS2      | -0.93     | <TS |
| 1530 | B  | 97  | 46     | 11                  | VS4      | 0.89      | <TS |
| 1531 | B  | 97  | 54     | 11                  | 07C      | 0.86      | <TS |
| 1532 | B  | 97  | 60     | 17                  | VS2      | 0.98      | <TS |
| 1533 | B  | 97  | 60     | 16                  | 06C      | 0.9       | <TS |
| 1534 | B  | 97  | 72     | 11                  | 04H      | 0.94      | <TS |
| 1535 | B  | 97  | 84     | 16                  | 07C      | -0.88     | <TS |
| 1536 | B  | 97  | 84     | 10                  | 07C      | -0.11     | <TS |
| 1537 | B  | 97  | 86     | 11                  | 03C      | 0.83      | <TS |
| 1538 | B  | 97  | 100    | 13                  | VS2      | 0.73      | <TS |
| 1539 | B  | 97  | 130    | 14                  | 04H      | 0.85      | <TS |
| 1540 | B  | 97  | 140    | 13                  | 03H      | 0.74      | <TS |
| 1541 | B  | 97  | 140    | 9                   | DBH      | 1.54      | <TS |
| 1542 | B  | 97  | 140    | 14                  | VS4      | -0.86     | <TS |
| 1543 | B  | 98  | 27     | 15                  | VS4      | -0.91     | <TS |
| 1544 | B  | 98  | 27     | 21                  | 04C      | -0.96     | <TS |
| 1545 | B  | 98  | 39     | 16                  | VS4      | 0.8       | <TS |
| 1546 | B  | 98  | 41     | 12                  | VS2      | -0.93     | <TS |
| 1547 | B  | 98  | 41     | 21                  | VS2      | 0.82      | <TS |
| 1548 | B  | 98  | 41     | 25                  | VS4      | 0.77      | <TS |
| 1549 | B  | 98  | 49     | 19                  | VS2      | -0.57     | <TS |
| 1550 | B  | 98  | 51     | 10                  | 04H      | 0.89      | <TS |
| 1551 | B  | 98  | 55     | 29                  | VS2      | -0.9      | <TS |
| 1552 | B  | 98  | 59     | 16                  | VS2      | -0.94     | <TS |
| 1553 | B  | 98  | 59     | 14                  | VS2      | 0.94      | <TS |
| 1554 | B  | 98  | 71     | 16                  | VS2      | 0.92      | <TS |
| 1555 | B  | 98  | 71     | 8                   | VS2      | -0.86     | <TS |
| 1556 | B  | 98  | 79     | 13                  | 03C      | 0.87      | <TS |
| 1557 | B  | 98  | 79     | 10                  | 03C      | 0.09      | <TS |
| 1558 | B  | 98  | 81     | 15                  | VS2      | 0.86      | <TS |
| 1559 | B  | 98  | 93     | 18                  | 03C      | 0.88      | <TS |
| 1560 | B  | 98  | 117    | 15                  | VS2      | 0.88      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1561 | B  | 98  | 133    | 17               | 02C      | 0.79      | <TS |
| 1562 | B  | 98  | 135    | 22               | VS2      | 0         | <TS |
| 1563 | B  | 98  | 135    | 24               | VS4      | -0.72     | <TS |
| 1564 | B  | 98  | 135    | 28               | VS4      | 0.94      | <TS |
| 1565 | B  | 98  | 139    | 17               | VS4      | 0.85      | <TS |
| 1566 | B  | 98  | 139    | 21               | VS4      | 0.22      | <TS |
| 1567 | B  | 98  | 139    | 14               | 03C      | -0.91     | <TS |
| 1568 | B  | 98  | 139    | 13               | 04H      | -0.15     | <TS |
| 1569 | B  | 99  | 32     | 14               | 02C      | 0.84      | <TS |
| 1570 | B  | 99  | 40     | 11               | 02H      | 0.81      | <TS |
| 1571 | B  | 99  | 44     | 9                | 05H      | 0.92      | <TS |
| 1572 | B  | 99  | 50     | 20               | 05H      | 0.54      | <TS |
| 1573 | B  | 99  | 52     | 12               | 03C      | 0.86      | <TS |
| 1574 | B  | 99  | 82     | 13               | VS2      | -0.83     | <TS |
| 1575 | B  | 99  | 86     | 11               | VS6      | 0.2       | <TS |
| 1576 | B  | 99  | 132    | 26               | VS2      | -0.72     | <TS |
| 1577 | B  | 99  | 132    | 13               | VS2      | -0.22     | <TS |
| 1578 | B  | 99  | 132    | 31               | VS2      | 0.72      | <TS |
| 1579 | B  | 99  | 132    | 23               | VS4      | 0.9       | <TS |
| 1580 | B  | 99  | 136    | 18               | 04C      | 0.79      | <TS |
| 1581 | B  | 99  | 138    | 8                | DBH      | 1.98      | <TS |
| 1582 | B  | 100 | 27     | 22               | VS4      | -0.97     | <TS |
| 1583 | B  | 100 | 27     | 12               | VS4      | 0.86      | <TS |
| 1584 | B  | 100 | 29     | 15               | VS6      | -0.88     | <TS |
| 1585 | B  | 100 | 29     | 17               | 03C      | 0.82      | <TS |
| 1586 | B  | 100 | 89     | 12               | VS4      | 0.79      | <TS |
| 1587 | B  | 100 | 103    | 13               | VS2      | 0.81      | <TS |
| 1588 | B  | 100 | 109    | 22               | VS2      | -0.72     | <TS |
| 1589 | B  | 100 | 115    | 12               | 03C      | 0.87      | <TS |
| 1590 | B  | 100 | 121    | 13               | 06C      | 0.92      | <TS |
| 1591 | B  | 100 | 125    | 31               | VS2      | -0.7      | <TS |
| 1592 | B  | 100 | 125    | 35               | VS2      | -0.07     | <TS |
| 1593 | B  | 100 | 125    | 17               | VS2      | 0.7       | <TS |
| 1594 | B  | 100 | 125    | 14               | VS4      | -0.7      | <TS |
| 1595 | B  | 100 | 125    | 25               | VS4      | 0.9       | <TS |
| 1596 | B  | 100 | 125    | 15               | VS6      | -0.11     | <TS |
| 1597 | B  | 100 | 125    | 19               | VS6      | 0.97      | <TS |
| 1598 | B  | 100 | 125    | 13               | DBC      | -1.8      | <TS |
| 1599 | B  | 100 | 133    | 16               | VS4      | -0.72     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1600 | B  | 100 | 135    | 13               | 03H      | 0.94      | <TS |
| 1601 | B  | 101 | 28     | 17               | VS4      | -0.82     | <TS |
| 1602 | B  | 101 | 28     | 13               | VS4      | -0.09     | <TS |
| 1603 | B  | 101 | 30     | 20               | 04C      | 0.86      | <TS |
| 1604 | B  | 101 | 30     | 13               | 03C      | 0.87      | <TS |
| 1605 | B  | 101 | 30     | 20               | 03C      | -0.93     | <TS |
| 1606 | B  | 101 | 30     | 11               | 02C      | 0.84      | <TS |
| 1607 | B  | 101 | 30     | 12               | 03H      | -0.89     | <TS |
| 1608 | B  | 101 | 32     | 23               | VS2      | 0.71      | <TS |
| 1609 | B  | 101 | 32     | 11               | VS4      | 0.93      | <TS |
| 1610 | B  | 101 | 36     | 12               | 05H      | 0.9       | <TS |
| 1611 | B  | 101 | 36     | 11               | 03C      | 0.89      | <TS |
| 1612 | B  | 101 | 38     | 8                | DBC      | 1.43      | <TS |
| 1613 | B  | 101 | 54     | 18               | 02C      | 0.9       | <TS |
| 1614 | B  | 101 | 66     | 13               | VS4      | 1.19      | <TS |
| 1615 | B  | 101 | 78     | 7                | 05H      | 0.88      | <TS |
| 1616 | B  | 101 | 98     | 15               | 04C      | -1.01     | <TS |
| 1617 | B  | 101 | 104    | 21               | DBH      | 1.36      | <TS |
| 1618 | B  | 101 | 130    | 12               | 04C      | 0.46      | <TS |
| 1619 | B  | 101 | 136    | 16               | 03H      | 0.92      | <TS |
| 1620 | B  | 101 | 138    | 14               | 03H      | 0.86      | <TS |
| 1621 | B  | 101 | 138    | 11               | VS4      | -0.88     | <TS |
| 1622 | B  | 102 | 29     | 13               | 04C      | 0.84      | <TS |
| 1623 | B  | 102 | 31     | 18               | 02C      | -0.89     | <TS |
| 1624 | B  | 102 | 33     | 22               | 03C      | -0.89     | <TS |
| 1625 | B  | 102 | 35     | 22               | 03C      | 0.89      | <TS |
| 1626 | B  | 102 | 37     | 11               | 02C      | -0.88     | <TS |
| 1627 | B  | 102 | 41     | 18               | 06H      | 0.86      | <TS |
| 1628 | B  | 102 | 41     | 9                | 06H      | -0.86     | <TS |
| 1629 | B  | 102 | 49     | 14               | VS2      | 0.82      | <TS |
| 1630 | B  | 102 | 51     | 18               | 07C      | 0.88      | <TS |
| 1631 | B  | 102 | 85     | 28               | VS6      | -0.83     | <TS |
| 1632 | B  | 102 | 93     | 11               | 04C      | -0.15     | <TS |
| 1633 | B  | 102 | 93     | 10               | 04C      | -0.92     | <TS |
| 1634 | B  | 102 | 99     | 17               | 07C      | 0.9       | <TS |
| 1635 | B  | 102 | 99     | 11               | 07C      | 0.07      | <TS |
| 1636 | B  | 102 | 113    | 14               | DBH      | 1.67      | <TS |
| 1637 | B  | 102 | 123    | 11               | 04H      | 0.92      | <TS |
| 1638 | B  | 102 | 127    | 13               | VS4      | 0.81      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 1639 | B  | 102 | 131    | 14               | DBC      | 1.32      | <TS |
| 1640 | B  | 102 | 137    | 13               | VS4      | -0.86     | <TS |
| 1641 | B  | 102 | 137    | 19               | VS4      | 0.92      | <TS |
| 1642 | B  | 103 | 30     | 14               | 06C      | -0.86     | <TS |
| 1643 | B  | 103 | 30     | 12               | 01C      | 0.11      | <TS |
| 1644 | B  | 103 | 36     | 13               | 07H      | 0.97      | <TS |
| 1645 | B  | 103 | 36     | 14               | 07C      | 0.88      | <TS |
| 1646 | B  | 103 | 38     | 14               | 02C      | -0.86     | <TS |
| 1647 | B  | 103 | 48     | 17               | VS4      | -0.86     | <TS |
| 1648 | B  | 103 | 48     | 9                | DBC      | -1.3      | <TS |
| 1649 | B  | 103 | 48     | 12               | 07C      | -0.02     | <TS |
| 1650 | B  | 103 | 58     | 16               | VS2      | -0.9      | <TS |
| 1651 | B  | 103 | 62     | 16               | 03C      | 0.86      | <TS |
| 1652 | B  | 103 | 64     | 28               | VS2      | 0.81      | <TS |
| 1653 | B  | 103 | 82     | 13               | VS2      | 0.82      | <TS |
| 1654 | B  | 103 | 94     | 19               | VS2      | -0.9      | <TS |
| 1655 | B  | 103 | 100    | 15               | 07C      | 0.86      | <TS |
| 1656 | B  | 103 | 108    | 23               | VS6      | -0.74     | <TS |
| 1657 | B  | 103 | 120    | 19               | 03H      | 0.92      | <TS |
| 1658 | B  | 103 | 120    | 8                | 03H      | -0.93     | <TS |
| 1659 | B  | 103 | 122    | 20               | 03H      | 0.9       | <TS |
| 1660 | B  | 103 | 126    | 18               | 04H      | 0.93      | <TS |
| 1661 | B  | 103 | 126    | 24               | VS2      | 0.15      | <TS |
| 1662 | B  | 103 | 126    | 19               | VS4      | -0.7      | <TS |
| 1663 | B  | 103 | 126    | 35               | VS6      | 0.83      | <TS |
| 1664 | B  | 103 | 128    | 14               | 04C      | 0.9       | <TS |
| 1665 | B  | 103 | 130    | 20               | VS2      | -0.13     | <TS |
| 1666 | B  | 103 | 130    | 11               | VS2      | 0.77      | <TS |
| 1667 | B  | 103 | 132    | 20               | VS2      | -0.04     | <TS |
| 1668 | B  | 103 | 132    | 12               | 04H      | 0.96      | <TS |
| 1669 | B  | 103 | 136    | 19               | VS4      | -0.88     | <TS |
| 1670 | B  | 103 | 136    | 23               | VS4      | 0.88      | <TS |
| 1671 | B  | 104 | 31     | 20               | VS4      | 0.82      | <TS |
| 1672 | B  | 104 | 31     | 10               | DBC      | -1.59     | <TS |
| 1673 | B  | 104 | 31     | 16               | 02C      | -0.2      | <TS |
| 1674 | B  | 104 | 33     | 12               | 03H      | 0.13      | <TS |
| 1675 | B  | 104 | 59     | 13               | VS4      | 0.94      | <TS |
| 1676 | B  | 104 | 59     | 12               | VS6      | -0.9      | <TS |
| 1677 | B  | 104 | 79     | 12               | VS6      | -0.83     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1678 | B  | 104 | 91     | 13                  | VS2      | -0.79     | <TS |
| 1679 | B  | 104 | 95     | 20                  | VS2      | -0.73     | <TS |
| 1680 | B  | 104 | 95     | 14                  | VS2      | -0.09     | <TS |
| 1681 | B  | 104 | 95     | 18                  | VS2      | 0.73      | <TS |
| 1682 | B  | 104 | 117    | 13                  | 05C      | 0.9       | <TS |
| 1683 | B  | 104 | 127    | 10                  | 04H      | 0.82      | <TS |
| 1684 | B  | 104 | 129    | 14                  | 06C      | 0.83      | <TS |
| 1685 | B  | 104 | 131    | 15                  | 03C      | 0.85      | <TS |
| 1686 | B  | 104 | 133    | 8                   | 05C      | 0.9       | <TS |
| 1687 | B  | 104 | 135    | 14                  | VS4      | 0.95      | <TS |
| 1688 | B  | 105 | 30     | 14                  | VS4      | 0.15      | <TS |
| 1689 | B  | 105 | 30     | 31                  | VS4      | 0.71      | <TS |
| 1690 | B  | 105 | 30     | 20                  | 02C      | 0.79      | <TS |
| 1691 | B  | 105 | 32     | 9                   | VS4      | -1.04     | <TS |
| 1692 | B  | 105 | 32     | 13                  | VS4      | 1.02      | <TS |
| 1693 | B  | 105 | 32     | 11                  | 01H      | 0.91      | <TS |
| 1694 | B  | 105 | 34     | 16                  | 07C      | -0.96     | <TS |
| 1695 | B  | 105 | 34     | 16                  | 03C      | -0.91     | <TS |
| 1696 | B  | 105 | 34     | 23                  | 02C      | 0.13      | <TS |
| 1697 | B  | 105 | 36     | 11                  | 04H      | -0.19     | <TS |
| 1698 | B  | 105 | 38     | 18                  | 03C      | 0.89      | <TS |
| 1699 | B  | 105 | 40     | 12                  | 03C      | -0.91     | <TS |
| 1700 | B  | 105 | 42     | 12                  | 07C      | 0.9       | <TS |
| 1701 | B  | 105 | 54     | 24                  | VS6      | -0.88     | <TS |
| 1702 | B  | 105 | 58     | 21                  | VS2      | -0.9      | <TS |
| 1703 | B  | 105 | 58     | 12                  | VS2      | 0.96      | <TS |
| 1704 | B  | 105 | 58     | 17                  | VS4      | -0.7      | <TS |
| 1705 | B  | 105 | 58     | 16                  | VS4      | 0.11      | <TS |
| 1706 | B  | 105 | 58     | 21                  | VS6      | 0.77      | <TS |
| 1707 | B  | 105 | 68     | 15                  | VS2      | 0         | <TS |
| 1708 | B  | 105 | 76     | 15                  | VS2      | 1.05      | <TS |
| 1709 | B  | 105 | 78     | 9                   | VS2      | -0.26     | <TS |
| 1710 | B  | 105 | 78     | 11                  | VS2      | 1.06      | <TS |
| 1711 | B  | 105 | 78     | 25                  | VS6      | -0.75     | <TS |
| 1712 | B  | 105 | 78     | 26                  | VS6      | 0.99      | <TS |
| 1713 | B  | 105 | 80     | 24                  | VS2      | -0.24     | <TS |
| 1714 | B  | 105 | 88     | 10                  | VS2      | -0.97     | <TS |
| 1715 | B  | 105 | 88     | 8                   | 07C      | -0.13     | <TS |
| 1716 | B  | 105 | 88     | 12                  | 07C      | -0.81     | <TS |



# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1717 | B  | 105 | 90     | 16                  | VS2      | 0.88      | <TS |
| 1718 | B  | 105 | 90     | 19                  | VS4      | 0.92      | <TS |
| 1719 | B  | 105 | 90     | 17                  | 07C      | 0.92      | <TS |
| 1720 | B  | 105 | 90     | 17                  | 03C      | 0.53      | <TS |
| 1721 | B  | 105 | 96     | 13                  | 04C      | -0.92     | <TS |
| 1722 | B  | 105 | 110    | 23                  | DBH      | 0.99      | <TS |
| 1723 | B  | 105 | 116    | 17                  | 03H      | 0.79      | <TS |
| 1724 | B  | 105 | 118    | 11                  | 03H      | 0.83      | <TS |
| 1725 | B  | 105 | 118    | 12                  | DBH      | 1.84      | <TS |
| 1726 | B  | 105 | 120    | 16                  | 03H      | -0.91     | <TS |
| 1727 | B  | 105 | 130    | 21                  | 03C      | 0.93      | <TS |
| 1728 | B  | 105 | 130    | 13                  | VS2      | 0.29      | <TS |
| 1729 | B  | 105 | 130    | 15                  | VS2      | -0.73     | <TS |
| 1730 | B  | 105 | 132    | 11                  | 04H      | 0.9       | <TS |
| 1731 | B  | 105 | 134    | 18                  | VS4      | 1.03      | <TS |
| 1732 | B  | 105 | 134    | 22                  | 02C      | 0.9       | <TS |
| 1733 | B  | 105 | 136    | 12                  | 01H      | 0.93      | <TS |
| 1734 | B  | 105 | 136    | 11                  | VS4      | -0.99     | <TS |
| 1735 | B  | 106 | 31     | 27                  | VS4      | 0.82      | <TS |
| 1736 | B  | 106 | 31     | 20                  | 03C      | 0.89      | <TS |
| 1737 | B  | 106 | 31     | 17                  | 02C      | 0.84      | <TS |
| 1738 | B  | 106 | 31     | 17                  | VS4      | 0.18      | <TS |
| 1739 | B  | 106 | 33     | 12                  | VS4      | -0.73     | <TS |
| 1740 | B  | 106 | 33     | 15                  | 03C      | 0.11      | <TS |
| 1741 | B  | 106 | 35     | 15                  | 03H      | 0.84      | <TS |
| 1742 | B  | 106 | 35     | 19                  | 04H      | 0.86      | <TS |
| 1743 | B  | 106 | 35     | 16                  | 03C      | 0.8       | <TS |
| 1744 | B  | 106 | 35     | 16                  | 02C      | -0.18     | <TS |
| 1745 | B  | 106 | 37     | 20                  | VS2      | -0.69     | <TS |
| 1746 | B  | 106 | 39     | 24                  | VS2      | -1        | <TS |
| 1747 | B  | 106 | 39     | 25                  | 03C      | 0.91      | <TS |
| 1748 | B  | 106 | 49     | 11                  | 04H      | -0.09     | <TS |
| 1749 | B  | 106 | 51     | 17                  | 07C      | 0.9       | <TS |
| 1750 | B  | 106 | 51     | 12                  | VS2      | 1         | <TS |
| 1751 | B  | 106 | 57     | 19                  | VS2      | 0.94      | <TS |
| 1752 | B  | 106 | 63     | 13                  | VS4      | -0.92     | <TS |
| 1753 | B  | 106 | 63     | 24                  | VS2      | 0         | <TS |
| 1754 | B  | 106 | 71     | 13                  | VS2      | -0.44     | <TS |
| 1755 | B  | 106 | 75     | 15                  | VS2      | 1.05      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1756 | B  | 106 | 77     | 23                  | VS2      | 0.88      | <TS |
| 1757 | B  | 106 | 101    | 15                  | VS2      | -0.75     | <TS |
| 1758 | B  | 106 | 101    | 11                  | VS2      | -0.26     | <TS |
| 1759 | B  | 106 | 113    | 17                  | VS2      | 0         | <TS |
| 1760 | B  | 106 | 129    | 17                  | 04C      | 0.86      | <TS |
| 1761 | B  | 106 | 131    | 14                  | 03C      | -0.18     | <TS |
| 1762 | B  | 107 | 32     | 15                  | VS4      | -0.84     | <TS |
| 1763 | B  | 107 | 34     | 11                  | VS6      | -0.86     | <TS |
| 1764 | B  | 107 | 36     | 22                  | VS2      | 0.86      | <TS |
| 1765 | B  | 107 | 36     | 15                  | VS6      | -0.73     | <TS |
| 1766 | B  | 107 | 36     | 11                  | VS6      | 0.11      | <TS |
| 1767 | B  | 107 | 40     | 16                  | VS2      | 0.91      | <TS |
| 1768 | B  | 107 | 42     | 33                  | VS2      | -0.93     | <TS |
| 1769 | B  | 107 | 42     | 36                  | VS2      | 0.93      | <TS |
| 1770 | B  | 107 | 42     | 23                  | VS4      | 0.27      | <TS |
| 1771 | B  | 107 | 42     | 33                  | VS4      | 0.82      | <TS |
| 1772 | B  | 107 | 42     | 20                  | VS6      | -0.86     | <TS |
| 1773 | B  | 107 | 42     | 14                  | VS6      | 0.93      | <TS |
| 1774 | B  | 107 | 44     | 18                  | 07C      | 0.13      | <TS |
| 1775 | B  | 107 | 44     | 15                  | 06C      | -0.15     | <TS |
| 1776 | B  | 107 | 46     | 20                  | VS6      | -0.88     | <TS |
| 1777 | B  | 107 | 46     | 9                   | VS6      | 0.77      | <TS |
| 1778 | B  | 107 | 52     | 17                  | VS6      | -0.55     | <TS |
| 1779 | B  | 107 | 52     | 15                  | 07C      | 0.88      | <TS |
| 1780 | B  | 107 | 58     | 15                  | DBH      | 1.47      | <TS |
| 1781 | B  | 107 | 74     | 12                  | 06C      | -0.88     | <TS |
| 1782 | B  | 107 | 78     | 13                  | VS2      | -0.88     | <TS |
| 1783 | B  | 107 | 78     | 17                  | VS2      | 0.97      | <TS |
| 1784 | B  | 107 | 82     | 32                  | VS2      | -0.92     | <TS |
| 1785 | B  | 107 | 82     | 29                  | VS2      | 0.97      | <TS |
| 1786 | B  | 107 | 82     | 13                  | VS4      | 0.13      | <TS |
| 1787 | B  | 107 | 96     | 24                  | VS2      | 0.99      | <TS |
| 1788 | B  | 107 | 96     | 13                  | VS4      | 0.07      | <TS |
| 1789 | B  | 107 | 114    | 9                   | VS2      | 0.26      | <TS |
| 1790 | B  | 107 | 116    | 29                  | VS2      | -0.83     | <TS |
| 1791 | B  | 107 | 116    | 28                  | VS2      | 0.09      | <TS |
| 1792 | B  | 107 | 116    | 29                  | VS2      | 0.79      | <TS |
| 1793 | B  | 107 | 120    | 20                  | DBC      | 1.61      | <TS |
| 1794 | B  | 107 | 124    | 13                  | 04C      | 0.83      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

## Table 4C Steam Generator E-50B Indications

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1795 | B  | 107 | 130    | 16                  | 02H      | 0.89      | <TS |
| 1796 | B  | 107 | 130    | 21                  | 03H      | 0.86      | <TS |
| 1797 | B  | 107 | 132    | 16                  | 07C      | 0.92      | <TS |
| 1798 | B  | 107 | 132    | 23                  | 04C      | 0.79      | <TS |
| 1799 | B  | 107 | 132    | 33                  | 03C      | 0.81      | <TS |
| 1800 | B  | 107 | 132    | 19                  | 02C      | 0.87      | <TS |
| 1801 | B  | 108 | 33     | 34                  | VS4      | 0.91      | <TS |
| 1802 | B  | 108 | 33     | 15                  | DBH      | -1.33     | <TS |
| 1803 | B  | 108 | 33     | 25                  | 08H      | 0.62      | <TS |
| 1804 | B  | 108 | 35     | 25                  | 04H      | 0.86      | <TS |
| 1805 | B  | 108 | 35     | 14                  | VS2      | -0.88     | <TS |
| 1806 | B  | 108 | 35     | 14                  | VS2      | 0.93      | <TS |
| 1807 | B  | 108 | 35     | 18                  | VS4      | -0.8      | <TS |
| 1808 | B  | 108 | 35     | 12                  | VS4      | 0.73      | <TS |
| 1809 | B  | 108 | 35     | 16                  | 04C      | 0.88      | <TS |
| 1810 | B  | 108 | 35     | 18                  | 04C      | -0.91     | <TS |
| 1811 | B  | 108 | 37     | 11                  | 04C      | -0.93     | <TS |
| 1812 | B  | 108 | 37     | 24                  | 03C      | -0.33     | <TS |
| 1813 | B  | 108 | 37     | 13                  | 02C      | 0.88      | <TS |
| 1814 | B  | 108 | 43     | 20                  | VS4      | -0.86     | <TS |
| 1815 | B  | 108 | 45     | 15                  | 07C      | 0.84      | <TS |
| 1816 | B  | 108 | 47     | 25                  | VS2      | -0.71     | <TS |
| 1817 | B  | 108 | 49     | 12                  | 05H      | 0.94      | <TS |
| 1818 | B  | 108 | 51     | 25                  | VS2      | -0.73     | <TS |
| 1819 | B  | 108 | 51     | 15                  | VS2      | 0.92      | <TS |
| 1820 | B  | 108 | 59     | 18                  | VS2      | -0.81     | <TS |
| 1821 | B  | 108 | 59     | 18                  | VS2      | 0.86      | <TS |
| 1822 | B  | 108 | 63     | 12                  | 07H      | 0.13      | <TS |
| 1823 | B  | 108 | 69     | 14                  | 05H      | 0.89      | <TS |
| 1824 | B  | 108 | 95     | 16                  | 04C      | 0.84      | <TS |
| 1825 | B  | 108 | 103    | 13                  | VS2      | -0.79     | <TS |
| 1826 | B  | 108 | 103    | 13                  | 07C      | 0.9       | <TS |
| 1827 | B  | 108 | 111    | 14                  | VS2      | -0.15     | <TS |
| 1828 | B  | 108 | 113    | 21                  | VS4      | -0.92     | <TS |
| 1829 | B  | 108 | 113    | 22                  | VS4      | 0.9       | <TS |
| 1830 | B  | 108 | 115    | 17                  | 07C      | 0.9       | <TS |
| 1831 | B  | 108 | 129    | 11                  | 04H      | -0.06     | <TS |
| 1832 | B  | 108 | 131    | 21                  | 02C      | 0.9       | <TS |
| 1833 | B  | 108 | 131    | 15                  | 03C      | 0.04      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1834 | B  | 108 | 133    | 18                  | 02C      | 0.13      | <TS |
| 1835 | B  | 109 | 34     | 22                  | VS4      | -0.78     | <TS |
| 1836 | B  | 109 | 34     | 23                  | 04C      | 0.11      | <TS |
| 1837 | B  | 109 | 40     | 19                  | VS2      | -0.84     | <TS |
| 1838 | B  | 109 | 40     | 19                  | VS2      | 1.13      | <TS |
| 1839 | B  | 109 | 40     | 23                  | VS4      | 0.02      | <TS |
| 1840 | B  | 109 | 48     | 12                  | VS4      | -0.95     | <TS |
| 1841 | B  | 109 | 52     | 18                  | VS2      | -0.88     | <TS |
| 1842 | B  | 109 | 52     | 37                  | VS2      | 0.95      | <TS |
| 1843 | B  | 109 | 52     | 14                  | VS6      | 0.99      | <TS |
| 1844 | B  | 109 | 54     | 12                  | 06H      | 0.81      | <TS |
| 1845 | B  | 109 | 62     | 18                  | 07C      | 0.83      | <TS |
| 1846 | B  | 109 | 64     | 12                  | 08C      | -0.89     | <TS |
| 1847 | B  | 109 | 78     | 18                  | 04C      | -0.97     | <TS |
| 1848 | B  | 109 | 84     | 11                  | 04H      | -0.13     | <TS |
| 1849 | B  | 109 | 92     | 12                  | 07C      | 0.88      | <TS |
| 1850 | B  | 109 | 96     | 15                  | VS2      | -0.9      | <TS |
| 1851 | B  | 109 | 104    | 27                  | VS2      | 0.92      | <TS |
| 1852 | B  | 109 | 112    | 19                  | 07H      | 0.9       | <TS |
| 1853 | B  | 109 | 112    | 15                  | VS2      | -1        | <TS |
| 1854 | B  | 109 | 112    | 16                  | 07C      | 0.87      | <TS |
| 1855 | B  | 109 | 112    | 9                   | 06C      | 0.81      | <TS |
| 1856 | B  | 109 | 114    | 14                  | VS2      | -0.72     | <TS |
| 1857 | B  | 109 | 114    | 28                  | VS2      | -0.15     | <TS |
| 1858 | B  | 109 | 114    | 16                  | VS2      | 0.15      | <TS |
| 1859 | B  | 109 | 114    | 37                  | VS4      | -0.87     | <TS |
| 1860 | B  | 109 | 114    | 31                  | VS6      | -0.9      | <TS |
| 1861 | B  | 109 | 114    | 10                  | VS6      | 0.68      | <TS |
| 1862 | B  | 109 | 120    | 15                  | 04C      | -0.94     | <TS |
| 1863 | B  | 109 | 126    | 21                  | 04H      | 0.85      | <TS |
| 1864 | B  | 109 | 128    | 15                  | 04H      | 0.87      | <TS |
| 1865 | B  | 109 | 130    | 26                  | 02C      | 0.8       | <TS |
| 1866 | B  | 109 | 130    | 16                  | 03C      | 0.95      | <TS |
| 1867 | B  | 109 | 130    | 13                  | 04C      | 0.88      | <TS |
| 1868 | B  | 109 | 132    | 21                  | 04C      | 0         | <TS |
| 1869 | B  | 109 | 132    | 18                  | 05C      | 0.81      | <TS |
| 1870 | B  | 109 | 132    | 13                  | 08C      | -0.48     | <TS |
| 1871 | B  | 109 | 132    | 10                  | DBH      | 1.19      | <TS |
| 1872 | B  | 110 | 37     | 13                  | 03C      | -0.84     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1873 | B  | 110 | 37     | 17                  | 04C      | -0.82     | <TS |
| 1874 | B  | 110 | 41     | 13                  | 02C      | 0.09      | <TS |
| 1875 | B  | 110 | 51     | 12                  | 05H      | 0.89      | <TS |
| 1876 | B  | 110 | 55     | 31                  | VS2      | -0.86     | <TS |
| 1877 | B  | 110 | 55     | 13                  | VS2      | 0.84      | <TS |
| 1878 | B  | 110 | 69     | 9                   | 06H      | -0.82     | <TS |
| 1879 | B  | 110 | 79     | 20                  | VS2      | -0.02     | <TS |
| 1880 | B  | 110 | 97     | 17                  | VS2      | -0.81     | <TS |
| 1881 | B  | 110 | 97     | 16                  | 08H      | 1.6       | <TS |
| 1882 | B  | 110 | 115    | 14                  | 03H      | -0.87     | <TS |
| 1883 | B  | 110 | 131    | 18                  | 02C      | 0.85      | <TS |
| 1884 | B  | 110 | 131    | 11                  | 02C      | -0.91     | <TS |
| 1885 | B  | 110 | 131    | 26                  | 03C      | 0.84      | <TS |
| 1886 | B  | 110 | 131    | 13                  | 03C      | -0.94     | <TS |
| 1887 | B  | 111 | 40     | 10                  | DBC      | -1.64     | <TS |
| 1888 | B  | 111 | 50     | 20                  | VS2      | 0.86      | <TS |
| 1889 | B  | 111 | 56     | 14                  | 08H      | 0.07      | <TS |
| 1890 | B  | 111 | 66     | 9                   | 07H      | 0.81      | <TS |
| 1891 | B  | 111 | 74     | 13                  | 05H      | 0.87      | <TS |
| 1892 | B  | 111 | 84     | 11                  | 04H      | -0.89     | <TS |
| 1893 | B  | 111 | 118    | 14                  | 04H      | 0.88      | <TS |
| 1894 | B  | 111 | 120    | 14                  | 04H      | 0.9       | <TS |
| 1895 | B  | 111 | 122    | 12                  | 03C      | -0.13     | <TS |
| 1896 | B  | 111 | 122    | 14                  | 03C      | -0.93     | <TS |
| 1897 | B  | 111 | 126    | 16                  | 03C      | 0.85      | <TS |
| 1898 | B  | 111 | 128    | 12                  | 03H      | -0.8      | <TS |
| 1899 | B  | 111 | 130    | 17                  | 02H      | 0.15      | <TS |
| 1900 | B  | 111 | 130    | 26                  | VS4      | 0.88      | <TS |
| 1901 | B  | 112 | 37     | 32                  | 04C      | -0.95     | <TS |
| 1902 | B  | 112 | 39     | 12                  | 02H      | 0.88      | <TS |
| 1903 | B  | 112 | 43     | 21                  | VS2      | -0.89     | <TS |
| 1904 | B  | 112 | 43     | 18                  | VS2      | 1.02      | <TS |
| 1905 | B  | 112 | 43     | 16                  | VS4      | -0.84     | <TS |
| 1906 | B  | 112 | 45     | 13                  | VS2      | -0.86     | <TS |
| 1907 | B  | 112 | 45     | 10                  | 03H      | 0.84      | <TS |
| 1908 | B  | 112 | 47     | 28                  | VS2      | -0.86     | <TS |
| 1909 | B  | 112 | 47     | 17                  | VS2      | 0.93      | <TS |
| 1910 | B  | 112 | 47     | 24                  | VS4      | 0.99      | <TS |
| 1911 | B  | 112 | 49     | 10                  | VS4      | 0.46      | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1912 | B  | 112 | 53     | 16                  | VS2      | -0.86     | <TS |
| 1913 | B  | 112 | 53     | 14                  | VS2      | 0.92      | <TS |
| 1914 | B  | 112 | 55     | 13                  | 04H      | -0.94     | <TS |
| 1915 | B  | 112 | 57     | 11                  | VS2      | -0.79     | <TS |
| 1916 | B  | 112 | 59     | 12                  | VS2      | 0.81      | <TS |
| 1917 | B  | 112 | 59     | 11                  | VS2      | 0.13      | <TS |
| 1918 | B  | 112 | 71     | 14                  | VS2      | -0.9      | <TS |
| 1919 | B  | 112 | 79     | 19                  | 04H      | -0.82     | <TS |
| 1920 | B  | 112 | 79     | 23                  | VS2      | 0.66      | <TS |
| 1921 | B  | 112 | 119    | 12                  | 03H      | -0.88     | <TS |
| 1922 | B  | 112 | 121    | 19                  | 02C      | 0.84      | <TS |
| 1923 | B  | 112 | 127    | 26                  | 03C      | 0.15      | <TS |
| 1924 | B  | 113 | 36     | 12                  | 04H      | -0.93     | <TS |
| 1925 | B  | 113 | 36     | 13                  | 08H      | 0.82      | <TS |
| 1926 | B  | 113 | 36     | 16                  | VS2      | 0.78      | <TS |
| 1927 | B  | 113 | 36     | 15                  | VS2      | -0.67     | <TS |
| 1928 | B  | 113 | 36     | 20                  | VS6      | -0.89     | <TS |
| 1929 | B  | 113 | 36     | 14                  | VS6      | 0.69      | <TS |
| 1930 | B  | 113 | 36     | 18                  | 02C      | 0.8       | <TS |
| 1931 | B  | 113 | 38     | 11                  | VS4      | -0.88     | <TS |
| 1932 | B  | 113 | 40     | 21                  | 03C      | -0.61     | <TS |
| 1933 | B  | 113 | 40     | 13                  | 04H      | -0.11     | <TS |
| 1934 | B  | 113 | 40     | 17                  | VS4      | -0.85     | <TS |
| 1935 | B  | 113 | 42     | 11                  | 05H      | 0.02      | <TS |
| 1936 | B  | 113 | 42     | 15                  | VS4      | 0.9       | <TS |
| 1937 | B  | 113 | 42     | 8                   | 03C      | -0.15     | <TS |
| 1938 | B  | 113 | 44     | 18                  | 01H      | 0.89      | <TS |
| 1939 | B  | 113 | 48     | 41                  | VS2      | -0.91     | PLG |
| 1940 | B  | 113 | 48     | 16                  | VS2      | 0.93      | <TS |
| 1941 | B  | 113 | 48     | 36                  | VS4      | -0.74     | <TS |
| 1942 | B  | 113 | 48     | 8                   | VS4      | 0.65      | <TS |
| 1943 | B  | 113 | 66     | 11                  | 06H      | 0.83      | <TS |
| 1944 | B  | 113 | 70     | 17                  | 07C      | 0.86      | <TS |
| 1945 | B  | 113 | 70     | 15                  | 07C      | 0.11      | <TS |
| 1946 | B  | 113 | 84     | 13                  | 02H      | -0.93     | <TS |
| 1947 | B  | 113 | 84     | 12                  | 04H      | -0.86     | <TS |
| 1948 | B  | 113 | 110    | 14                  | VS2      | 0.77      | <TS |
| 1949 | B  | 113 | 110    | 17                  | 04C      | 0.9       | <TS |
| 1950 | B  | 113 | 122    | 12                  | 03C      | -1.04     | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1951 | B  | 113 | 130    | 19                  | VS4      | -0.85     | <TS |
| 1952 | B  | 114 | 37     | 15                  | 04C      | 0.88      | <TS |
| 1953 | B  | 114 | 37     | 30                  | VS4      | 0.97      | <TS |
| 1954 | B  | 114 | 37     | 19                  | VS4      | -0.73     | <TS |
| 1955 | B  | 114 | 37     | 23                  | VS2      | -0.75     | <TS |
| 1956 | B  | 114 | 37     | 30                  | VS2      | 0.11      | <TS |
| 1957 | B  | 114 | 37     | 25                  | DBH      | 1.26      | <TS |
| 1958 | B  | 114 | 39     | 23                  | VS2      | -0.88     | <TS |
| 1959 | B  | 114 | 39     | 35                  | VS4      | 0.8       | <TS |
| 1960 | B  | 114 | 39     | 12                  | 02C      | 0.8       | <TS |
| 1961 | B  | 114 | 43     | 10                  | 07H      | 0.84      | <TS |
| 1962 | B  | 114 | 119    | 14                  | VS4      | 0.96      | <TS |
| 1963 | B  | 114 | 127    | 17                  | 05C      | 0.83      | <TS |
| 1964 | B  | 114 | 127    | 14                  | 04C      | 0.86      | <TS |
| 1965 | B  | 114 | 127    | 25                  | 03C      | 0.83      | <TS |
| 1966 | B  | 114 | 129    | 11                  | VS4      | -0.78     | <TS |
| 1967 | B  | 115 | 38     | 38                  | 01C      | 0.38      | <TS |
| 1968 | B  | 115 | 38     | 17                  | 02C      | 0.93      | <TS |
| 1969 | B  | 115 | 38     | 15                  | 08H      | 0.88      | <TS |
| 1970 | B  | 115 | 38     | 19                  | VS4      | -0.8      | <TS |
| 1971 | B  | 115 | 58     | 12                  | 07H      | -0.88     | <TS |
| 1972 | B  | 115 | 68     | 10                  | 05H      | 0.93      | <TS |
| 1973 | B  | 115 | 84     | 13                  | 03H      | -0.86     | <TS |
| 1974 | B  | 115 | 86     | 16                  | 03H      | 0.93      | <TS |
| 1975 | B  | 115 | 104    | 11                  | 04H      | -0.84     | <TS |
| 1976 | B  | 115 | 114    | 13                  | 07H      | 0.83      | <TS |
| 1977 | B  | 115 | 122    | 15                  | 07H      | 1         | <TS |
| 1978 | B  | 115 | 124    | 17                  | 05C      | -0.92     | <TS |
| 1979 | B  | 115 | 126    | 16                  | 04H      | 0.93      | <TS |
| 1980 | B  | 115 | 126    | 21                  | 03C      | 0.83      | <TS |
| 1981 | B  | 115 | 126    | 17                  | 03C      | -0.87     | <TS |
| 1982 | B  | 116 | 43     | 19                  | VS4      | 0.93      | <TS |
| 1983 | B  | 116 | 45     | 12                  | 06H      | 0.95      | <TS |
| 1984 | B  | 116 | 45     | 16                  | VS2      | -0.04     | <TS |
| 1985 | B  | 116 | 45     | 16                  | VS4      | 0.88      | <TS |
| 1986 | B  | 116 | 47     | 15                  | VS4      | 0.9       | <TS |
| 1987 | B  | 116 | 55     | 13                  | VS2      | -0.88     | <TS |
| 1988 | B  | 116 | 55     | 18                  | VS4      | 0.93      | <TS |
| 1989 | B  | 116 | 55     | 14                  | 04C      | 0.86      | <TS |

**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 1990 | B  | 116 | 77     | 17                  | VS2      | 0.77      | <TS |
| 1991 | B  | 116 | 81     | 18                  | VS7      | -0.88     | <TS |
| 1992 | B  | 116 | 81     | 10                  | 07C      | -0.15     | <TS |
| 1993 | B  | 116 | 81     | 14                  | 07C      | -0.9      | <TS |
| 1994 | B  | 116 | 93     | 10                  | 04C      | -0.96     | <TS |
| 1995 | B  | 116 | 97     | 9                   | 04C      | -0.2      | <TS |
| 1996 | B  | 116 | 103    | 20                  | 05C      | 0.88      | <TS |
| 1997 | B  | 116 | 111    | 15                  | 05H      | -0.96     | <TS |
| 1998 | B  | 116 | 111    | 9                   | 05H      | 0.96      | <TS |
| 1999 | B  | 116 | 111    | 11                  | 08C      | 0.87      | <TS |
| 2000 | B  | 116 | 111    | 20                  | 04C      | -0.96     | <TS |
| 2001 | B  | 116 | 115    | 22                  | VS4      | 0.85      | <TS |
| 2002 | B  | 116 | 117    | 19                  | 03C      | -0.15     | <TS |
| 2003 | B  | 116 | 117    | 13                  | 03C      | -0.9      | <TS |
| 2004 | B  | 116 | 125    | 14                  | 05C      | 0.86      | <TS |
| 2005 | B  | 116 | 125    | 15                  | 04C      | 0.86      | <TS |
| 2006 | B  | 116 | 125    | 11                  | 04C      | 0.02      | <TS |
| 2007 | B  | 116 | 125    | 33                  | 03C      | 1.05      | <TS |
| 2008 | B  | 117 | 40     | 12                  | 05C      | 0.78      | <TS |
| 2009 | B  | 117 | 40     | 21                  | 03C      | -0.89     | <TS |
| 2010 | B  | 117 | 40     | 22                  | 02C      | -0.84     | <TS |
| 2011 | B  | 117 | 40     | 14                  | 02C      | -0.11     | <TS |
| 2012 | B  | 117 | 40     | 11                  | 01C      | -0.86     | <TS |
| 2013 | B  | 117 | 40     | 19                  | 04C      | -0.2      | <TS |
| 2014 | B  | 117 | 40     | 16                  | 02C      | 0.8       | <TS |
| 2015 | B  | 117 | 44     | 15                  | 02C      | 0.82      | <TS |
| 2016 | B  | 117 | 48     | 15                  | 03C      | -0.88     | <TS |
| 2017 | B  | 117 | 66     | 10                  | 06H      | 0.94      | <TS |
| 2018 | B  | 117 | 66     | 13                  | 07C      | 0.9       | <TS |
| 2019 | B  | 117 | 68     | 11                  | 05H      | 0.98      | <TS |
| 2020 | B  | 117 | 82     | 9                   | 06H      | -0.91     | <TS |
| 2021 | B  | 117 | 90     | 14                  | VS4      | 0.29      | <TS |
| 2022 | B  | 117 | 90     | 18                  | 08C      | 0.92      | <TS |
| 2023 | B  | 117 | 108    | 14                  | 03H      | -0.87     | <TS |
| 2024 | B  | 117 | 108    | 13                  | 04H      | 0.98      | <TS |
| 2025 | B  | 117 | 112    | 19                  | 04H      | 1         | <TS |
| 2026 | B  | 118 | 41     | 14                  | 02H      | 0.88      | <TS |
| 2027 | B  | 118 | 41     | 14                  | 03C      | -0.22     | <TS |
| 2028 | B  | 118 | 43     | 16                  | VS4      | 0.9       | <TS |



**Steam Generator Tube Inspection Report for the 2014 Refueling Outage**  
**Table 4C Steam Generator E-50B Indications**  
(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2029 | B  | 118 | 43     | 17                  | VS6      | -0.02     | <TS |
| 2030 | B  | 118 | 73     | 12                  | VS6      | -0.92     | <TS |
| 2031 | B  | 118 | 73     | 12                  | VS7      | -0.83     | <TS |
| 2032 | B  | 118 | 87     | 14                  | VS2      | 0.94      | <TS |
| 2033 | B  | 118 | 89     | 26                  | VS2      | 0.99      | <TS |
| 2034 | B  | 118 | 89     | 16                  | VS4      | 0.68      | <TS |
| 2035 | B  | 118 | 97     | 12                  | VS2      | -0.9      | <TS |
| 2036 | B  | 118 | 101    | 11                  | 08C      | 0.86      | <TS |
| 2037 | B  | 118 | 105    | 15                  | VS4      | -0.55     | <TS |
| 2038 | B  | 118 | 117    | 17                  | 04C      | -0.15     | <TS |
| 2039 | B  | 118 | 121    | 11                  | 03H      | -0.88     | <TS |
| 2040 | B  | 118 | 123    | 23                  | 04C      | -0.92     | <TS |
| 2041 | B  | 118 | 123    | 14                  | 03C      | 0.83      | <TS |
| 2042 | B  | 118 | 123    | 13                  | 02C      | 0.82      | <TS |
| 2043 | B  | 119 | 42     | 14                  | 02H      | 0.88      | <TS |
| 2044 | B  | 119 | 42     | 19                  | VS7      | -0.84     | <TS |
| 2045 | B  | 119 | 42     | 14                  | 05C      | 0.84      | <TS |
| 2046 | B  | 119 | 42     | 22                  | 04C      | -0.48     | <TS |
| 2047 | B  | 119 | 42     | 19                  | 03C      | 0.46      | <TS |
| 2048 | B  | 119 | 44     | 17                  | 02H      | 0.81      | <TS |
| 2049 | B  | 119 | 44     | 13                  | 01C      | 0.78      | <TS |
| 2050 | B  | 119 | 46     | 20                  | 02C      | 0.79      | <TS |
| 2051 | B  | 119 | 88     | 23                  | 08C      | 0.9       | <TS |
| 2052 | B  | 119 | 88     | 9                   | 08C      | -0.15     | <TS |
| 2053 | B  | 119 | 104    | 14                  | VS1      | -0.74     | <TS |
| 2054 | B  | 119 | 110    | 16                  | 04C      | 0.87      | <TS |
| 2055 | B  | 119 | 112    | 19                  | 04C      | 0.89      | <TS |
| 2056 | B  | 119 | 112    | 16                  | 03C      | 0.85      | <TS |
| 2057 | B  | 119 | 112    | 12                  | 03C      | -0.86     | <TS |
| 2058 | B  | 119 | 122    | 15                  | 04H      | -0.92     | <TS |
| 2059 | B  | 120 | 43     | 11                  | 02H      | 0.86      | <TS |
| 2060 | B  | 120 | 43     | 19                  | 01C      | -0.91     | <TS |
| 2061 | B  | 120 | 43     | 9                   | 01C      | 0.86      | <TS |
| 2062 | B  | 120 | 45     | 11                  | 02C      | 0.77      | <TS |
| 2063 | B  | 120 | 47     | 26                  | 03C      | 0.86      | <TS |
| 2064 | B  | 120 | 47     | 8                   | 03C      | -0.95     | <TS |
| 2065 | B  | 120 | 49     | 11                  | 03C      | -0.9      | <TS |
| 2066 | B  | 120 | 55     | 12                  | 07C      | -0.9      | <TS |
| 2067 | B  | 120 | 61     | 14                  | 08C      | 0.9       | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2068 | B  | 120 | 103    | 16               | 07H      | 0.97      | <TS |
| 2069 | B  | 120 | 105    | 23               | VS2      | -0.83     | <TS |
| 2070 | B  | 120 | 113    | 22               | VS2      | -0.94     | <TS |
| 2071 | B  | 120 | 113    | 16               | VS2      | 0.86      | <TS |
| 2072 | B  | 120 | 115    | 26               | 03C      | 0.89      | <TS |
| 2073 | B  | 120 | 121    | 12               | 03H      | 0.82      | <TS |
| 2074 | B  | 121 | 44     | 18               | 01H      | 0.89      | <TS |
| 2075 | B  | 121 | 44     | 13               | 03C      | 0.84      | <TS |
| 2076 | B  | 121 | 104    | 14               | 03H      | 0.88      | <TS |
| 2077 | B  | 121 | 104    | 18               | 05H      | 0.8       | <TS |
| 2078 | B  | 121 | 104    | 12               | 04H      | 0.86      | <TS |
| 2079 | B  | 121 | 114    | 13               | 03C      | 0.94      | <TS |
| 2080 | B  | 121 | 114    | 18               | VS4      | -0.96     | <TS |
| 2081 | B  | 121 | 114    | 13               | 04C      | -0.92     | <TS |
| 2082 | B  | 121 | 118    | 19               | 02C      | 0.82      | <TS |
| 2083 | B  | 121 | 120    | 15               | 02C      | -0.13     | <TS |
| 2084 | B  | 121 | 122    | 11               | 02H      | 0.88      | <TS |
| 2085 | B  | 122 | 71     | 11               | 05H      | 0.89      | <TS |
| 2086 | B  | 122 | 71     | 11               | VS2      | -0.75     | <TS |
| 2087 | B  | 122 | 111    | 10               | 06C      | 0.88      | <TS |
| 2088 | B  | 123 | 52     | 16               | 02C      | 0.86      | <TS |
| 2089 | B  | 123 | 72     | 13               | VS4      | -0.88     | <TS |
| 2090 | B  | 123 | 72     | 13               | VS7      | 0.88      | <TS |
| 2091 | B  | 123 | 78     | 20               | 05H      | -1.1      | <TS |
| 2092 | B  | 123 | 84     | 11               | 04H      | -0.13     | <TS |
| 2093 | B  | 123 | 98     | 12               | 07C      | 0.9       | <TS |
| 2094 | B  | 123 | 98     | 10               | 06C      | 0.81      | <TS |
| 2095 | B  | 123 | 116    | 37               | VS6      | -0.76     | <TS |
| 2096 | B  | 123 | 116    | 18               | 05C      | -0.95     | <TS |
| 2097 | B  | 123 | 116    | 12               | 04C      | 0.89      | <TS |
| 2098 | B  | 123 | 116    | 11               | 03C      | 0.91      | <TS |
| 2099 | B  | 123 | 118    | 35               | VS6      | -0.93     | <TS |
| 2100 | B  | 123 | 118    | 22               | VS7      | -0.95     | <TS |
| 2101 | B  | 123 | 118    | 14               | 08C      | 0.85      | <TS |
| 2102 | B  | 124 | 47     | 13               | 03C      | 0.88      | <TS |
| 2103 | B  | 124 | 47     | 9                | 01C      | -0.13     | <TS |
| 2104 | B  | 124 | 49     | 17               | 02C      | -0.95     | <TS |
| 2105 | B  | 124 | 51     | 13               | VS4      | 0.64      | <TS |
| 2106 | B  | 124 | 55     | 11               | 05H      | -0.17     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2107 | B  | 124 | 57     | 12                  | VS7      | -1.08     | <TS |
| 2108 | B  | 124 | 73     | 12                  | VS2      | 0.83      | <TS |
| 2109 | B  | 124 | 85     | 13                  | VS2      | 0.22      | <TS |
| 2110 | B  | 124 | 85     | 12                  | VS2      | 0.7       | <TS |
| 2111 | B  | 124 | 85     | 16                  | VS4      | -0.66     | <TS |
| 2112 | B  | 124 | 87     | 16                  | VS4      | 0.88      | <TS |
| 2113 | B  | 124 | 93     | 17                  | VS1      | 0.61      | <TS |
| 2114 | B  | 124 | 93     | 31                  | VS2      | 0         | <TS |
| 2115 | B  | 124 | 93     | 11                  | VS2      | 0.72      | <TS |
| 2116 | B  | 124 | 93     | 18                  | VS2      | -0.72     | <TS |
| 2117 | B  | 124 | 93     | 12                  | VS4      | 0.92      | <TS |
| 2118 | B  | 124 | 95     | 20                  | VS2      | -0.02     | <TS |
| 2119 | B  | 124 | 95     | 15                  | VS4      | -0.9      | <TS |
| 2120 | B  | 124 | 95     | 20                  | VS4      | 0.92      | <TS |
| 2121 | B  | 124 | 97     | 14                  | 06C      | 0.86      | <TS |
| 2122 | B  | 124 | 101    | 12                  | 04C      | -0.85     | <TS |
| 2123 | B  | 124 | 105    | 13                  | 06C      | 0.86      | <TS |
| 2124 | B  | 124 | 111    | 10                  | 02C      | -0.13     | <TS |
| 2125 | B  | 124 | 113    | 12                  | 03C      | 0.87      | <TS |
| 2126 | B  | 124 | 113    | 9                   | 03C      | -0.2      | <TS |
| 2127 | B  | 124 | 117    | 13                  | VS4      | 0.78      | <TS |
| 2128 | B  | 124 | 117    | 20                  | VS7      | -0.2      | <TS |
| 2129 | B  | 124 | 117    | 11                  | 06C      | 0.83      | <TS |
| 2130 | B  | 124 | 117    | 10                  | 06C      | -0.89     | <TS |
| 2131 | B  | 124 | 117    | 21                  | 04C      | 0.83      | <TS |
| 2132 | B  | 124 | 119    | 12                  | 08C      | -0.15     | <TS |
| 2133 | B  | 124 | 119    | 12                  | 08C      | 0.91      | <TS |
| 2134 | B  | 125 | 48     | 7                   | VS4      | -1.01     | <TS |
| 2135 | B  | 125 | 48     | 16                  | VS4      | 0.9       | <TS |
| 2136 | B  | 125 | 48     | 16                  | VS6      | 0.9       | <TS |
| 2137 | B  | 125 | 78     | 12                  | 03H      | -0.89     | <TS |
| 2138 | B  | 125 | 82     | 11                  | 05H      | -0.87     | <TS |
| 2139 | B  | 125 | 82     | 13                  | VS1      | -0.79     | <TS |
| 2140 | B  | 125 | 94     | 23                  | VS2      | -0.7      | <TS |
| 2141 | B  | 125 | 94     | 18                  | VS2      | -0.15     | <TS |
| 2142 | B  | 125 | 100    | 16                  | 08C      | 0.88      | <TS |
| 2143 | B  | 125 | 104    | 20                  | 07H      | 0.86      | <TS |
| 2144 | B  | 125 | 104    | 23                  | 07C      | -0.2      | <TS |
| 2145 | B  | 125 | 112    | 21                  | 02C      | 0.85      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2146 | B  | 125 | 114    | 17                  | 03C      | 0.85      | <TS |
| 2147 | B  | 125 | 116    | 17                  | 02H      | 0.89      | <TS |
| 2148 | B  | 125 | 116    | 12                  | 03H      | 0.83      | <TS |
| 2149 | B  | 125 | 116    | 18                  | VS4      | -0.87     | <TS |
| 2150 | B  | 125 | 116    | 7                   | VS4      | 0.89      | <TS |
| 2151 | B  | 125 | 118    | 13                  | 05H      | -1.04     | <TS |
| 2152 | B  | 126 | 51     | 12                  | 01C      | 0.83      | <TS |
| 2153 | B  | 126 | 55     | 17                  | 02C      | 0.88      | <TS |
| 2154 | B  | 126 | 55     | 13                  | 06H      | 0.92      | <TS |
| 2155 | B  | 126 | 61     | 15                  | VS1      | 0.88      | <TS |
| 2156 | B  | 126 | 81     | 11                  | VS4      | -0.86     | <TS |
| 2157 | B  | 126 | 83     | 17                  | VS1      | -0.18     | <TS |
| 2158 | B  | 126 | 91     | 8                   | VS4      | -0.86     | <TS |
| 2159 | B  | 126 | 91     | 21                  | VS2      | 0.04      | <TS |
| 2160 | B  | 126 | 95     | 19                  | VS6      | 1.05      | <TS |
| 2161 | B  | 126 | 95     | 25                  | VS4      | -0.9      | <TS |
| 2162 | B  | 126 | 95     | 16                  | VS2      | -0.02     | <TS |
| 2163 | B  | 126 | 99     | 19                  | 08C      | 0.85      | <TS |
| 2164 | B  | 126 | 99     | 14                  | 07C      | 0.83      | <TS |
| 2165 | B  | 126 | 103    | 17                  | VS4      | 0.85      | <TS |
| 2166 | B  | 126 | 109    | 14                  | 04H      | 0.87      | <TS |
| 2167 | B  | 126 | 115    | 9                   | 02C      | 0.11      | <TS |
| 2168 | B  | 126 | 115    | 20                  | 02C      | 0.83      | <TS |
| 2169 | B  | 127 | 52     | 12                  | 01H      | -0.06     | <TS |
| 2170 | B  | 127 | 54     | 19                  | 01H      | -0.83     | <TS |
| 2171 | B  | 127 | 72     | 10                  | 05H      | 0.89      | <TS |
| 2172 | B  | 127 | 92     | 22                  | 08C      | -0.15     | <TS |
| 2173 | B  | 127 | 92     | 11                  | VS6      | -1.01     | <TS |
| 2174 | B  | 127 | 102    | 13                  | 07C      | -0.15     | <TS |
| 2175 | B  | 127 | 104    | 14                  | 06C      | 0.85      | <TS |
| 2176 | B  | 127 | 106    | 21                  | 07C      | -0.19     | <TS |
| 2177 | B  | 127 | 108    | 13                  | 06C      | 0.92      | <TS |
| 2178 | B  | 127 | 110    | 16                  | 02C      | 0.81      | <TS |
| 2179 | B  | 127 | 112    | 20                  | 02C      | 0.87      | <TS |
| 2180 | B  | 127 | 112    | 13                  | 04C      | -1.02     | <TS |
| 2181 | B  | 127 | 114    | 18                  | 01H      | -0.88     | <TS |
| 2182 | B  | 127 | 114    | 13                  | 02H      | 0.83      | <TS |
| 2183 | B  | 127 | 114    | 12                  | 02C      | 0.85      | <TS |
| 2184 | B  | 127 | 114    | 8                   | 03C      | 0.85      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2185 | B  | 128 | 53     | 16               | 01H      | -0.11     | <TS |
| 2186 | B  | 128 | 55     | 20               | 01C      | -0.53     | <TS |
| 2187 | B  | 128 | 57     | 12               | 01H      | -0.86     | <TS |
| 2188 | B  | 128 | 73     | 24               | VS1      | 0.18      | <TS |
| 2189 | B  | 128 | 73     | 14               | VS4      | 0.88      | <TS |
| 2190 | B  | 128 | 73     | 11               | 06H      | 0.02      | <TS |
| 2191 | B  | 128 | 73     | 14               | 06H      | 0.94      | <TS |
| 2192 | B  | 128 | 99     | 12               | 07C      | 0.85      | <TS |
| 2193 | B  | 128 | 101    | 23               | 05C      | 0.87      | <TS |
| 2194 | B  | 128 | 109    | 14               | 02C      | -0.11     | <TS |
| 2195 | B  | 128 | 113    | 25               | 02C      | -0.87     | <TS |
| 2196 | B  | 129 | 56     | 21               | 01H      | 0.89      | <TS |
| 2197 | B  | 129 | 56     | 19               | 01C      | 0.85      | <TS |
| 2198 | B  | 129 | 58     | 11               | 01H      | -0.84     | <TS |
| 2199 | B  | 129 | 64     | 9                | VS7      | -0.83     | <TS |
| 2200 | B  | 129 | 68     | 10               | 02H      | -0.84     | <TS |
| 2201 | B  | 129 | 84     | 18               | 06H      | 0.86      | <TS |
| 2202 | B  | 129 | 102    | 22               | 08C      | -0.97     | <TS |
| 2203 | B  | 129 | 102    | 9                | 06C      | -0.24     | <TS |
| 2204 | B  | 129 | 102    | 13               | 08C      | 0.11      | <TS |
| 2205 | B  | 129 | 104    | 15               | 07C      | -0.2      | <TS |
| 2206 | B  | 129 | 106    | 12               | 06C      | 0.82      | <TS |
| 2207 | B  | 129 | 106    | 8                | 08C      | -0.2      | <TS |
| 2208 | B  | 129 | 106    | 20               | 08C      | 0.85      | <TS |
| 2209 | B  | 129 | 108    | 6                | 06C      | 0.85      | <TS |
| 2210 | B  | 129 | 108    | 11               | 02C      | 0.88      | <TS |
| 2211 | B  | 129 | 110    | 17               | 02C      | 0.79      | <TS |
| 2212 | B  | 130 | 55     | 19               | 01H      | 0.98      | <TS |
| 2213 | B  | 130 | 55     | 19               | 02C      | 0.85      | <TS |
| 2214 | B  | 130 | 65     | 15               | VS4      | 0.61      | <TS |
| 2215 | B  | 130 | 65     | 26               | VS7      | 0.9       | <TS |
| 2216 | B  | 130 | 65     | 10               | VS2      | -0.24     | <TS |
| 2217 | B  | 130 | 69     | 12               | 05H      | 0.84      | <TS |
| 2218 | B  | 130 | 79     | 10               | VS2      | -0.94     | <TS |
| 2219 | B  | 130 | 91     | 22               | DBC      | 1.31      | <TS |
| 2220 | B  | 130 | 107    | 18               | DBC      | -1.75     | <TS |
| 2221 | B  | 130 | 109    | 11               | 04H      | 0.85      | <TS |
| 2222 | B  | 131 | 58     | 33               | 01C      | 0.83      | <TS |
| 2223 | B  | 131 | 60     | 12               | VS6      | 0.83      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2224 | B  | 131 | 64     | 23                  | VS7      | 0.99      | <TS |
| 2225 | B  | 131 | 70     | 14                  | 03C      | 0.85      | <TS |
| 2226 | B  | 131 | 78     | 16                  | VS6      | -0.88     | <TS |
| 2227 | B  | 131 | 82     | 17                  | 08H      | -0.84     | <TS |
| 2228 | B  | 131 | 88     | 13                  | 07C      | 0.88      | <TS |
| 2229 | B  | 131 | 96     | 12                  | 08H      | -0.11     | <TS |
| 2230 | B  | 131 | 96     | 22                  | 04C      | 0.86      | <TS |
| 2231 | B  | 131 | 98     | 33                  | VS6      | 0.88      | <TS |
| 2232 | B  | 131 | 98     | 31                  | VS7      | 0.72      | <TS |
| 2233 | B  | 131 | 98     | 16                  | DBC      | 1.79      | <TS |
| 2234 | B  | 131 | 100    | 9                   | 06C      | 0.85      | <TS |
| 2235 | B  | 131 | 102    | 21                  | 06C      | -0.96     | <TS |
| 2236 | B  | 131 | 102    | 17                  | 05C      | 0.83      | <TS |
| 2237 | B  | 131 | 102    | 13                  | 04C      | 0.89      | <TS |
| 2238 | B  | 131 | 104    | 29                  | VS7      | 0.88      | <TS |
| 2239 | B  | 131 | 104    | 15                  | DBC      | 1.68      | <TS |
| 2240 | B  | 131 | 108    | 13                  | 07H      | -1.09     | <TS |
| 2241 | B  | 132 | 61     | 12                  | 01H      | 1.01      | <TS |
| 2242 | B  | 132 | 75     | 11                  | 02H      | 0.86      | <TS |
| 2243 | B  | 132 | 81     | 12                  | 05H      | 0.89      | <TS |
| 2244 | B  | 132 | 91     | 14                  | DBC      | 1.32      | <TS |
| 2245 | B  | 132 | 97     | 14                  | VS1      | 0.81      | <TS |
| 2246 | B  | 132 | 97     | 22                  | VS2      | -0.75     | <TS |
| 2247 | B  | 132 | 97     | 8                   | VS2      | -0.11     | <TS |
| 2248 | B  | 132 | 97     | 15                  | VS4      | -0.94     | <TS |
| 2249 | B  | 132 | 97     | 6                   | VS4      | 0.53      | <TS |
| 2250 | B  | 132 | 97     | 11                  | VS7      | 0.94      | <TS |
| 2251 | B  | 132 | 101    | 15                  | VS7      | 0.79      | <TS |
| 2252 | B  | 132 | 101    | 20                  | 06C      | 0.85      | <TS |
| 2253 | B  | 132 | 101    | 14                  | 06C      | -0.2      | <TS |
| 2254 | B  | 132 | 103    | 16                  | VS7      | -0.88     | <TS |
| 2255 | B  | 132 | 103    | 12                  | DBC      | -1.93     | <TS |
| 2256 | B  | 132 | 107    | 26                  | 02C      | -0.9      | <TS |
| 2257 | B  | 133 | 68     | 13                  | 02H      | 0.88      | <TS |
| 2258 | B  | 133 | 74     | 15                  | 03H      | 0.86      | <TS |
| 2259 | B  | 133 | 76     | 14                  | 07C      | 0.85      | <TS |
| 2260 | B  | 133 | 90     | 14                  | DBC      | -1.93     | <TS |
| 2261 | B  | 133 | 100    | 19                  | VS7      | -0.15     | <TS |
| 2262 | B  | 133 | 102    | 17                  | VS7      | -0.83     | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent<br>in Depth | Location | Elevation | TS  |
|------|----|-----|--------|---------------------|----------|-----------|-----|
| 2263 | B  | 133 | 102    | 20                  | 07C      | -1.01     | <TS |
| 2264 | B  | 133 | 104    | 23                  | VS7      | 0.9       | <TS |
| 2265 | B  | 133 | 104    | 12                  | VS7      | -0.81     | <TS |
| 2266 | B  | 133 | 104    | 15                  | DBC      | 1.89      | <TS |
| 2267 | B  | 134 | 63     | 15                  | 07C      | 0.83      | <TS |
| 2268 | B  | 134 | 63     | 18                  | DBH      | -1.68     | <TS |
| 2269 | B  | 134 | 65     | 19                  | 02H      | 0.86      | <TS |
| 2270 | B  | 134 | 65     | 12                  | VS2      | -0.72     | <TS |
| 2271 | B  | 134 | 69     | 27                  | VS7      | 0.92      | <TS |
| 2272 | B  | 134 | 69     | 17                  | 04H      | 0.86      | <TS |
| 2273 | B  | 134 | 95     | 21                  | DBC      | 1.72      | <TS |
| 2274 | B  | 134 | 95     | 12                  | 06C      | 0.83      | <TS |
| 2275 | B  | 134 | 97     | 13                  | VS6      | -0.87     | <TS |
| 2276 | B  | 134 | 97     | 15                  | VS6      | 0.83      | <TS |
| 2277 | B  | 134 | 99     | 12                  | VS4      | -0.89     | <TS |
| 2278 | B  | 134 | 99     | 15                  | VS6      | -0.76     | <TS |
| 2279 | B  | 134 | 99     | 26                  | VS6      | 0.98      | <TS |
| 2280 | B  | 134 | 101    | 24                  | VS7      | 0.92      | <TS |
| 2281 | B  | 135 | 68     | 13                  | 02H      | -0.96     | <TS |
| 2282 | B  | 135 | 68     | 24                  | VS7      | 0.92      | <TS |
| 2283 | B  | 135 | 72     | 21                  | VS7      | -0.9      | <TS |
| 2284 | B  | 135 | 76     | 22                  | VS7      | -0.92     | <TS |
| 2285 | B  | 135 | 76     | 16                  | 08C      | 0.83      | <TS |
| 2286 | B  | 135 | 76     | 19                  | 08C      | -0.96     | <TS |
| 2287 | B  | 135 | 80     | 18                  | 07H      | -0.77     | <TS |
| 2288 | B  | 135 | 82     | 22                  | VS7      | -0.9      | <TS |
| 2289 | B  | 135 | 82     | 23                  | VS7      | 0.95      | <TS |
| 2290 | B  | 135 | 90     | 31                  | VS7      | 0.7       | <TS |
| 2291 | B  | 135 | 92     | 37                  | VS7      | -0.61     | <TS |
| 2292 | B  | 135 | 92     | 33                  | 08C      | 0.87      | <TS |
| 2293 | B  | 135 | 92     | 25                  | 07C      | 0.78      | <TS |
| 2294 | B  | 135 | 94     | 26                  | DBC      | 1.75      | <TS |
| 2295 | B  | 135 | 96     | 14                  | 04C      | 0.83      | <TS |
| 2296 | B  | 135 | 98     | 16                  | VS6      | -0.8      | <TS |
| 2297 | B  | 136 | 69     | 20                  | DBC      | 1.9       | <TS |
| 2298 | B  | 136 | 77     | 18                  | 03H      | 0.91      | <TS |
| 2299 | B  | 136 | 87     | 15                  | 08C      | -1.01     | <TS |
| 2300 | B  | 136 | 91     | 13                  | 08C      | -0.18     | <TS |
| 2301 | B  | 136 | 91     | 23                  | DBC      | 1.88      | <TS |

# Steam Generator Tube Inspection Report for the 2014 Refueling Outage

**Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| No   | SG | Row | Column | Percent in Depth | Location | Elevation | TS  |
|------|----|-----|--------|------------------|----------|-----------|-----|
| 2302 | B  | 136 | 95     | 21               | 03C      | 0.88      | <TS |
| 2303 | B  | 136 | 97     | 30               | VS7      | -0.79     | <TS |
| 2304 | B  | 136 | 97     | 12               | 08C      | 0.11      | <TS |
| 2305 | B  | 136 | 97     | 16               | 08C      | -0.92     | <TS |
| 2306 | B  | 136 | 97     | 13               | 07C      | 0.87      | <TS |
| 2307 | B  | 136 | 97     | 19               | 03C      | 0.88      | <TS |
| 2308 | B  | 136 | 97     | 15               | VS7      | 0.9       | <TS |
| 2309 | B  | 137 | 74     | 15               | 06H      | 0.81      | <TS |
| 2310 | B  | 137 | 76     | 12               | 05H      | 0.84      | <TS |
| 2311 | B  | 137 | 78     | 13               | 03H      | -0.84     | <TS |
| 2312 | B  | 137 | 80     | 19               | 08H      | 0.88      | <TS |
| 2313 | B  | 137 | 90     | 23               | DBH      | 1.75      | <TS |
| 2314 | B  | 137 | 90     | 11               | VS1      | -0.81     | <TS |
| 2315 | B  | 137 | 90     | 15               | VS4      | 0.18      | <TS |
| 2316 | B  | 137 | 90     | 11               | VS4      | 0.7       | <TS |
| 2317 | B  | 137 | 90     | 16               | VS6      | -0.66     | <TS |
| 2318 | B  | 137 | 90     | 17               | VS7      | -0.88     | <TS |
| 2319 | B  | 137 | 90     | 17               | VS7      | 0.88      | <TS |
| 2320 | B  | 137 | 90     | 18               | DBC      | 1.97      | <TS |
| 2321 | B  | 137 | 92     | 18               | VS6      | -0.85     | <TS |
| 2322 | B  | 137 | 92     | 21               | VS6      | 0.94      | <TS |
| 2323 | B  | 137 | 92     | 23               | VS7      | -0.68     | <TS |
| 2324 | B  | 137 | 92     | 15               | 08C      | -1.03     | <TS |
| 2325 | B  | 137 | 92     | 17               | 07C      | 0.07      | <TS |
| 2326 | B  | 137 | 92     | 10               | 04C      | 0.83      | <TS |
| 2327 | B  | 138 | 75     | 9                | 08H      | -0.13     | <TS |
| 2328 | B  | 138 | 77     | 20               | 02H      | 0.92      | <TS |
| 2329 | B  | 138 | 77     | 13               | 03H      | -0.92     | <TS |
| 2330 | B  | 138 | 77     | 21               | VS4      | 0.94      | <TS |
| 2331 | B  | 138 | 79     | 15               | 03H      | 0.88      | <TS |
| 2332 | B  | 138 | 79     | 23               | VS1      | -0.66     | <TS |
| 2333 | B  | 138 | 79     | 23               | VS2      | 0.79      | <TS |
| 2334 | B  | 138 | 79     | 20               | VS4      | 0.94      | <TS |
| 2335 | B  | 138 | 79     | 19               | VS6      | -0.9      | <TS |
| 2336 | B  | 138 | 79     | 20               | VS6      | 0.96      | <TS |
| 2337 | B  | 138 | 81     | 22               | VS4      | -0.88     | <TS |
| 2338 | B  | 138 | 81     | 14               | 08C      | -1.07     | <TS |
| 2339 | B  | 138 | 85     | 14               | 08H      | 0.85      | <TS |
| 2340 | B  | 138 | 85     | 27               | DBH      | 1.79      | <TS |



**Steam Generator Tube Inspection Report for the 2014 Refueling Outage****Table 4C Steam Generator E-50B Indications**

(all indications due to tube wear)

| <b>No</b> | <b>SG</b> | <b>Row</b> | <b>Column</b> | <b>Percent<br/>in Depth</b> | <b>Location</b> | <b>Elevation</b> | <b>TS</b> |
|-----------|-----------|------------|---------------|-----------------------------|-----------------|------------------|-----------|
| 2341      | B         | 138        | 87            | 20                          | VS1             | -0.81            | <TS       |
| 2342      | B         | 138        | 87            | 18                          | VS4             | -0.79            | <TS       |
| 2343      | B         | 138        | 87            | 13                          | VS1             | 0.92             | <TS       |
| 2344      | B         | 138        | 89            | 19                          | VS4             | -0.63            | <TS       |
| 2345      | B         | 138        | 89            | 12                          | VS6             | 0.85             | <TS       |
| 2346      | B         | 138        | 89            | 16                          | VS7             | -0.79            | <TS       |
| 2347      | B         | 138        | 89            | 33                          | VS7             | 0.92             | <TS       |
| 2348      | B         | 138        | 89            | 14                          | 07C             | 0.77             | <TS       |
| 2349      | B         | 138        | 89            | 12                          | VS6             | -0.98            | <TS       |
| 2350      | B         | 138        | 91            | 18                          | DBH             | 1.97             | <TS       |
| 2351      | B         | 138        | 91            | 16                          | VS7             | 1.07             | <TS       |

## Steam Generator Tube Inspection Report for the 2012 Refueling Outage

**Table 5**  
**Tube Plugging Summary by Damage Mechanism**

| <b>TUBE PLUGGING SUMMARY</b>             | <b>SG E-50A</b> | <b>SG E-50B</b> |
|--|-----------------|-----------------|
| Wear – Vertical Straps                   | 0               | 1               |
| Wear – Diagonal Bar                      | 0               | 0               |
| Wear – Eggcrate                          | 0               | 0               |
| Wear – Loose Part                        | 2               | 1               |
| Wear – Dent                              | 0               | 0               |
| Wear – Tube to Tube (TBP)                | 0               | 0               |
| Wear – Volumetric                        | 0               | 0               |
| Circumferential ODSCC TTS                | 5               | 2               |
| Axial ODSCC TTS                          | 1               | 2               |
| Axial ODSCC Freespan Ding                | 0               | 0               |
| Axial ODSCC Eggcrate & Vertical Strap    | 1               | 3               |
| Axial ODSCC in Greater Than 5 Volt Dents | 0               | 0               |
| Axial ODSCC in Less Than 5 Volt Dents    | 0               | 0               |
| Axial PWSCC Tubesheet                    | 0               | 0               |
| Circumferential PWSCC Tubesheet          | 0               | 0               |
| Axial ODSCC in U-bend                    | 0               | 0               |
| Restricted Tube                          | 0               | 0               |
| Administrative                           | 4               | 1               |
| 2014 Outage Total                        | 13              | 10              |
| Pre-service Tubes Plugged                | 308             | 309             |
| Effective Tubes Plugged                  | 537             | 446             |
| Effective Tubes Plugged Percentage       | 6.5%            | 5.4%            |
| SG Total Number of Tubes                 | 8219            | 8219            |

# Steam Generator Tube Inspection Report for the 2012 Refueling Outage

**Table 6**

## Condition Monitoring Results Identification of Tubes Plugged

(all conditions for tubes that were plugged in the 2014 refueling outage)

| SG    | Row | Column | Location | Reason For Plugging     |
|-------|-----|--------|----------|-------------------------|
| E-50A | 23  | 118    | 01H-0.81 | SAI<br>No Stabilization |
| E-50A | 24  | 49     | TSH+0.17 | SCI<br>Stabilization    |
| E-50A | 33  | 52     | TSH+0.38 | SAI<br>No Stabilization |
| E-50A | 40  | 51     | TSH-0.11 | SCI<br>Stabilization    |
| E-50A | 56  | 59     | TSH-0.10 | SCI<br>Stabilization    |
| E-50A | 76  | 79     | TSH+0.11 | SCI<br>Stabilization    |
| E-50A | 105 | 104    | TSH+0.01 | SCI<br>Stabilization    |
| E-50A | 132 | 73     | ADMIN    | PTP<br>Stabilization    |
| E-50A | 133 | 74     | TSH+0.01 | SVI<br>Stabilization    |
| E-50A | 134 | 73     | ADMIN    | PTP<br>Stabilization    |
| E-50A | 134 | 75     | TSH+0.00 | SVI<br>Stabilization    |
| E-50A | 135 | 74     | ADMIN    | PTP<br>Stabilization    |
| E-50A | 136 | 75     | ADMIN    | PTP<br>Stabilization    |
| E-50B | 3   | 112    | ADMIN    | PTP<br>No Stabilization |
| E-50B | 23  | 46     | TSH+0.42 | SAI<br>No Stabilization |
| E-50B | 23  | 110    | 01H-0.23 | SAI<br>No Stabilization |
| E-50B | 28  | 51     | TSH+0.11 | SCI<br>Stabilization    |
| E-50B | 29  | 106    | 01H-0.28 | SAI<br>No Stabilization |
| E-50B | 74  | 75     | TSH-0.09 | SCI<br>Stabilization    |
| E-50B | 76  | 95     | TSH+1.40 | SAI<br>No Stabilization |
| E-50B | 82  | 115    | 01H-0.97 | SAI<br>No Stabilization |
| E-50B | 108 | 35     | TSC+0.00 | SVI<br>Stabilization    |

**Steam Generator Tube Inspection Report for the 2012 Refueling Outage**

**Table 6**

**Condition Monitoring Results Identification of Tubes Plugged**

(all conditions for tubes that were plugged in the 2014 refueling outage)

| <b>SG</b> | <b>Row</b> | <b>Column</b> | <b>Location</b> | <b>Reason For Plugging</b>    |
|-----------|------------|---------------|-----------------|-------------------------------|
| E-50B     | 113        | 48            | VS2-0.91        | WAR (41%)<br>No Stabilization |

## Steam Generator Tube Inspection Report for the 2012 Refueling Outage

**Table 7A**  
**Steam Generator Support Structure Nomenclature**

| <b>Name</b> | <b>Description</b>          | <b>Name</b> | <b>Description</b>           |
|-------------|-----------------------------|-------------|------------------------------|
| TEH         | Tube End - Hot Side         | VS4         | Fourth Vertical Strap        |
| TSH         | Top of Tubesheet - Hot Side | VS5         | Fifth Vertical Strap         |
| 01H         | First Eggcrate - Hot Side   | VS6         | Sixth Vertical Strap         |
| 02H         | Second Eggcrate - Hot Side  | VS7         | Seventh Vertical Strap       |
| 03H         | Third Eggcrate - Hot Side   | DBC         | Diagonal Strap - Cold Side   |
| 04H         | Fourth Eggcrate - Hot Side  | 08C         | Eighth Eggcrate - Cold Side  |
| 05H         | Fifth Eggcrate - Hot Side   | 07C         | Seventh Eggcrate - Cold Side |
| 06H         | Sixth Eggcrate - Hot Side   | 06C         | Sixth Eggcrate - Cold Side   |
| 07H         | Seventh Eggcrate - Hot Side | 05C         | Fifth Eggcrate - Cold Side   |
| 08H         | Eighth Eggcrate - Hot Side  | 04C         | Fourth Eggcrate - Cold Side  |
| DBH         | Diagonal Strap - Hot Side   | 03C         | Third Eggcrate - Cold Side   |
| VS1         | First Vertical Strap        | 02C         | Second Eggcrate - Cold Side  |
| VS2         | Second Vertical Strap       | 01C         | First Eggcrate - Cold Side   |
| VS3         | Third Vertical Strap        | TSC         | Top of Tubesheet - Cold Side |
|             |                             | TEC         | Tube End - Cold Side         |

## Steam Generator Tube Inspection Report for the 2012 Refueling Outage

**Table 7B**  
**Acronyms and Abbreviations**

| <b>Acronym</b> | <b>Definition</b>                               |
|----------------|---|
| AVB            | Anti Vibration Bar                              |
| BED            | Burst Equivalent Depth                          |
| BEL            | Burst Equivalent Length                         |
| CMOA           | Condition Monitoring and Operational Assessment |
| DDI            | Dent or Ding with Indication                    |
| DSI            | Distorted Support Indication                    |
| ETSS           | Examination Technique Specification Sheet       |
| FDMS           | AREVA Data Management System                    |
| LP             | Loose Part                                      |
| MRPC           | Motorized Rotating Pancake Coil (+Pt.™)         |
| MBM            | Manufacturing Burnish Mark                      |
| NDD            | No Degradation Detected                         |
| NDE            | Non Destructive Examination                     |
| NQI            | Non-Quantifiable Indication                     |
| NTE            | No Tube Expansion                               |
| ODSCC          | Outside Diameter Stress Corrosion Cracking      |
| PDA            | Percent Degraded Area                           |
| PLG            | Tube Is Plugged                                 |
| PLP            | Possible Loose Part                             |
| PTE            | Partial Tube Expansion                          |
| PTP            | Preventative Tube Plug                          |
| PVN            | Permeability Variation                          |
| PWSCC          | Primary Water Stress Corrosion Cracking         |
| SAI            | Single Axial Indication                         |
| SCI            | Single Circumferential Indication               |
| SVI            | Single Volumetric Indication                    |
| TBP            | To Be Plugged                                   |
| TSP            | Tube Support Plate                              |
| TTS            | Top of Tubesheet                                |
| TW             | Through Wall                                    |
| <TS            | Less Than Technical Specification               |
| WAR            | Wear Indication                                 |