

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

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United States Nuclear Regulatory Commission  
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**VIRGINIA ELECTRIC AND POWER COMPANY**  
**SURRY POWER STATION UNIT 2**  
**STEAM GENERATOR TUBE INSPECTION REPORT**  
**FOR THE SPRING 2017 REFUELING OUTAGE**

Technical Specification 6.6.A.3 for Surry Power Station Units 1 and 2 requires the submittal of a Steam Generator Tube Inspection Report to the NRC within 180 days after  $T_{avg}$  exceeds 200°F following completion of an inspection performed in accordance with Technical Specification 6.4.Q, Steam Generator Program. Attached is the Surry Unit 2 report for the Spring 2017 refueling outage.

If you have any questions concerning this information, please contact Mrs. Candee G. Lovett at (757) 365-2178.

Very truly yours,



Fred Mladen  
Site Vice President  
Surry Power Station

Attachment: Surry Unit 2 Steam Generator Tube Inspection Report for the Spring 2017 Refueling Outage

Commitments made in this letter: None

AD47  
NRR

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**ATTACHMENT**

**SURRY UNIT 2  
STEAM GENERATOR TUBE INSPECTION REPORT  
FOR THE SPRING 2017 REFUELING OUTAGE**

**VIRGINIA ELECTRIC AND POWER COMPANY  
(DOMINION ENERGY VIRGINIA)**

## SURRY UNIT 2 STEAM GENERATOR TUBE INSPECTION REPORT FOR THE SPRING 2017 REFUELING OUTAGE

The following satisfies the Surry Power Station Technical Specification (TS) reporting requirement Section 6.6.A.3. During the Surry Unit 2 Spring 2017 End-Of-Cycle 27 (EOC27) refueling outage, Steam Generator (SG) inspections in accordance with TS 6.4.Q were completed for SGs A, B, and C.

The Unit 2 SGs are in the 4th inspection period, which has a duration of 72 Effective Full Power Months (EFPM). This was the fourth and final inspection in the 4th inspection period.

Surry Unit 2 exceeded 200°F on June 1, 2017; therefore this report is required to be submitted by November 28, 2017. At the time of this inspection, the Unit 2 SGs had operated for 349.6 EFPM since the first in-service inspection.

In the discussion below ***bold italicized*** wording represents TS verbiage and the required information is provided directly below each reporting requirement. A list of acronyms is provided at the end of this report.

***A report shall be submitted within 180 days after Tav<sub>g</sub> exceeds 200°F following completion of an inspection performed in accordance with the Specification 6.4.Q, "Steam Generator (SG) Program." The report shall include:***

***a. The scope of inspections performed on each SG,***

Primary Side

During the Unit 2 EOC27 refueling outage, primary side inspections were performed in SGs A, B and C. The eddy current inspections included the following:

Steam Generators A and C:

- Array inspection of all in-service tubes from TSH -17.89" to the lowermost hot leg support structure (either BPH or 01H).
- Motorized Rotating Pancake Coil (MRPC) inspections of specific locations of special interest based on array or previous eddy current results.

Steam Generator B:

- Bobbin inspection of all in-service tubing except the u-bends of Rows 1 and 2.
- MRPC inspections of the u-bends of Rows 1 and 2.
- Array inspection of all in-service tubes from TSH -17.89" to the lowermost hot leg support structure (either BPH or 01H).

- Array inspection of all in-service tubes from TSC -17.89" to the lowermost cold leg support structure (either BPC or 01C).
- Array inspection of hot leg straight sections of all in-service tubes with high residual stress.
- MRPC inspections of locations of special interest based on bobbin and array inspection results.

As-found and as-left visual examinations were performed in both channel heads in SG B and the hot leg channel heads of SGs A and C. No degradation associated with the divider plate, welds, cladding, channel head, channel head drain, or previously installed plugs was observed. Examination of the bottom of the bowl and drain in the dry condition showed no degradation.

### Secondary Side

Listed below is a summary of the secondary side work performed in the Surry Unit 2 steam generators during the EOC27 outage.

SGs A, B, and C:

- Sludge lancing was performed in all three steam generators.
- Post-lancing visual examination of the top-of-tubesheet annulus and no-tube lane to identify and remove any retrievable foreign objects (FOSAR).
- Visual investigation of any accessible locations having eddy current signals potentially related to foreign objects.

SG C:

- Visual examination, from the steam drum of all accessible steam drum components and structures, including the feeding, j-nozzles, and the primary and secondary moisture separators. The upper tube bundle and 7th tube support plate (TSP) were also inspected via probe drops through the primary moisture separators. No degradation or any other condition adverse to quality was observed during the secondary side internals inspections.

### ***b. Degradation mechanisms found,***

Degradation mechanisms targeted by the inspection plan included anti-vibration bar (AVB) wear, pitting, foreign object wear, TSP wear and stress corrosion cracking (SCC). AVB wear, foreign object wear, and tube support plate wear were detected during the current outage. There was no reportable pitting and no cracking observed above the H-star region in 2017.

### ***c. Nondestructive examination techniques utilized for each degradation mechanism,***

The inspection program focused on the degradation mechanisms listed in Table 1 and utilized the referenced eddy current techniques.

**Table 1 – Inspection Method for Applicable Degradation Modes**

| <b>Classification</b> | <b>Degradation Mechanism</b> | <b>Location</b>   | <b>Probe Type</b>                             |
|-----------------------|------------------------------|---|---|
| Existing              | Wear                         | Anti-Vibration Bars   | Bobbin – Detection and Sizing                 |
| Existing              | OD Pitting                   | Top-of-Tubesheet (TTS)  | Bobbin and Array – Detection +Point™ - Sizing |
| Existing              | Wear                         | Tube Support Plate  | Bobbin – Detection +Point™ – Sizing           |
| Existing              | Tube Wear (foreign objects)  | Freespan and TTS  | Bobbin and Array – Detection +Point™ - Sizing |
| Existing              | PWSCC                        | Tubesheet Overexpansions (EXP)  | Array – Detection +Point™ - Sizing            |
| Existing              | PWSCC                        | Tube Ends   | N/A*  |
| Existing              | Tube Wear                    | Flow Distribution Baffle  | Bobbin – Detection +Point™ – Sizing           |
| Potential             | ODSCC<br>PWSCC               | Bulges, Dents, Manufacturing Anomalies, and Above-Tubesheet Overexpansions (OVRs) | Array – Detection +Point™ - Sizing            |
| Potential             | ODSCC                        | Tubesheet Crevice in Tubes With No Tube Expansions (NTEs)                         | N/A**   |
| Potential             | Tube Slippage                | Within Tubesheet  | Bobbin - Detection                            |
| Potential             | ODSCC<br>PWSCC               | Hot Leg TTS   | Array – Detection +Point™ - Sizing            |
| Potential             | ODSCC<br>PWSCC               | Row 1 and 2 U-bends   | +Point™ – Detection and Sizing                |
| Potential             | ODSCC                        | Freespan and Tube Supports  | Bobbin – Detection +Point™ - Sizing           |
| Potential             | ODSCC<br>PWSCC               | High Residual Stress Tubes  | Bobbin and Array – Detection +Point™ - Sizing |

\* Inspection not required per technical specification alternate repair criteria.

\*\* The tubes with no tubesheet expansion (NTE) have already been plugged.

d. ***Location, orientation (if linear), and measured sizes (if available) of service induced indications,***

As stated in the (b) response above, service induced indications were identified. Tables 2 and 3 provide the required information.

**Table 2 - Surry 2 Spring 2017 Inspection Summary – AVB Indications for SG B**

| SG | Row | Col | AVB<br>Number | Depth (%TW)<br>ETSS 96041.1 |
|----|-----|-----|---------------|-----------------------------|
|    |     |     |               | 2017                        |
| B  | 24  | 57  | AV1           | 17                          |
| B  | 26  | 64  | AV2           | 13                          |
| B  | 31  | 58  | AV2           | 12                          |
| B  | 32  | 69  | AV2           | 7                           |
| B  | 33  | 60  | AV3           | 13                          |
| B  | 35  | 78  | AV3           | 10                          |
| B  | 37  | 71  | AV3           | 9                           |
| B  | 37  | 75  | AV3           | 10                          |
| B  | 38  | 51  | AV4           | 13                          |
| B  | 38  | 74  | AV4           | 16                          |
| B  | 38  | 74  | AV2           | 14                          |
| B  | 38  | 74  | AV1           | 11                          |
| B  | 44  | 60  | AV2           | 7                           |
| B  | 45  | 57  | AV1           | 9                           |

**Table 3 - Summary of Non-AVB-Wear Volumetric Degradation Identified**

| SG | Row | Col | Location   | ETSS    | Axial Length (in) | Circ Length (in) | Maximum Depth 2R27 | Initially Reported | Signal Present Prior to Current Outage?                   | Cause          | Foreign Object Remaining? | In-Situ Tested? | Plugged & Stabilized? |
|----|-----|-----|------------|---------|-------------------|------------------|--------------------|--------------------|---|----------------|---------------------------|-----------------|-----------------------|
| A  | 11  | 45  | TSH + 0.77 | 27901.1 | 0.25              | 0.43             | 24%TW              | 2012               | Yes. No change since 2006.                                | Foreign Object | No                        | No              | No                    |
| A  | 15  | 16  | TSH + 0.14 | 27901.1 | 0.24              | 0.43             | 24%TW              | 2012               | Yes. No change since initial detection.                   | Foreign Object | No                        | No              | No                    |
| A  | 17  | 16  | TSH - 0.13 | 27901.1 | 0.29              | 0.59             | 29%TW              | 2002               | Yes. No change since initial detection.                   | Foreign Object | No                        | No              | No                    |
| A  | 18  | 16  | TSH - 0.09 | 27901.1 | 0.24              | 0.43             | 25%TW              | 2002               | Yes. No change since initial detection.                   | Foreign Object | No                        | No              | No                    |
| A  | 39  | 24  | TSH + 0.26 | 27901.1 | 0.24              | 0.43             | 18%TW              | 2009               | Yes. No change since 2006.                                | Foreign Object | No                        | No              | No                    |
| A  | 43  | 61  | BPH + 0.47 | 27901.1 | 0.24              | 0.53             | 23%TW              | 2009               | Yes. No change since 2002.                                | Foreign Object | No                        | No              | No                    |
| A  | 43  | 64  | BPH + 0.49 | 27901.1 | 0.24              | 0.43             | 23%TW              | 2009               | Yes. Possible minor change 2002 to 2009. No change since. | Foreign Object | No                        | No              | No                    |
| B  | 18  | 81  | TSC + 0.04 | 27901.1 | 0.24              | 0.53             | 25%TW              | 2017               | Yes. No change since 2014.                                | Foreign Object | No                        | No              | No                    |
| B  | 18  | 81  | TSC + 0.31 | 27901.1 | 0.19              | 0.37             | 19%TW              | 2017               | Yes. No change since 2014.                                | Foreign Object | No                        | No              | No                    |
| B  | 23  | 82  | TSH - 0.09 | 27901.1 | 0.19              | 0.43             | 21%TW              | 2003               | Yes. No change since initial detection.                   | Foreign Object | No                        | No              | No                    |
| B  | 34  | 66  | TSC + 0.17 | 27901.1 | 0.25              | 0.48             | 23%TW              | 2017               | Yes. No change since 2014.                                | Foreign Object | No                        | No              | No                    |
| B  | 36  | 26  | TSC - 0.15 | 27905.1 | 0.29              | 0.48             | 25%TW              | 2008               | Yes. No change since initial detection.                   | Foreign Object | No                        | No              | No                    |
| B  | 37  | 27  | TSC + 0.0  | 27901.1 | 0.29              | 0.53             | 26%TW              | 2008               | Yes. No change since initial detection.                   | Foreign Object | No                        | No              | No                    |



| SG | Row | Col | Location   | ETSS    | Axial Length (in) | Circ Length (in) | Maximum Depth 2R27 | Initially Reported | Signal Present Prior to Current Outage? | Cause          | Foreign Object Remaining? | In-Situ Tested? | Plugged & Stabilized? |
|----|-----|-----|------------|---------|-------------------|------------------|--------------------|--------------------|---|----------------|---------------------------|-----------------|-----------------------|
| B  | 41  | 42  | TSC + 0.01 | 27901.1 | 0.29              | 0.48             | 19%TW              | 2017               | Yes. No change since 2014.              | Foreign Object | No                        | No              | No                    |
| B  | 42  | 42  | TSC - 0.12 | 27901.1 | 0.24              | 0.48             | 30%TW              | 2014               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| B  | 46  | 52  | TSC + 9.2  | 27901.1 | 0.24              | 0.43             | 18%TW              | 2017               | No wear signal in 2014 based on lookup. | Foreign Object | No                        | No              | No                    |
| C  | 28  | 22  | TSH + 0.14 | 27901.1 | 0.35              | 0.54             | 29%TW              | 2014               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 28  | 23  | TSH + 0.21 | 27901.1 | 0.24              | 0.54             | 26%TW              | 2014               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 28  | 23  | TSH + 0.54 | 27901.1 | 0.3               | 0.43             | 27%TW              | 2014               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 28  | 71  | TSH + 0.29 | 27901.1 | 0.36              | 0.54             | 22%TW              | 2009               | Yes. No change since 1996.              | Foreign Object | No                        | No              | No                    |
| C  | 30  | 48  | BPH + 0.55 | 27901.1 | 0.19              | 0.49             | 20%TW              | 2015               | Yes. No change since 2014.              | Foreign Object | No                        | No              | No                    |
| C  | 30  | 74  | TSH + 6.53 | 27901.1 | 0.29              | 0.48             | 19%TW              | 2014               | Yes. No change since 1996.              | Foreign Object | No                        | No              | No                    |
| C  | 32  | 36  | BPH + 0.61 | 27901.1 | 0.3               | 0.43             | 18%TW              | 2009               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 33  | 17  | TSH + 2.76 | 27901.1 | 0.35              | 0.54             | 20%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 34  | 18  | TSH + 1.05 | 27901.1 | 0.35              | 0.49             | 22%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 34  | 20  | TSH + 0.95 | 27901.1 | 0.35              | 0.49             | 25%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 34  | 74  | TSH + 0.08 | 27901.1 | 0.3               | 0.54             | 27%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |

| SG | Row | Col | Location   | ETSS    | Axial Length (in) | Circ Length (in) | Maximum Depth 2R27 | Initially Reported | Signal Present Prior to Current Outage?    | Cause          | Foreign Object Remaining? | In-Situ Tested? | Plugged & Stabilized? |
|----|-----|-----|------------|---------|-------------------|------------------|--------------------|--------------------|--|----------------|---------------------------|-----------------|-----------------------|
| C  | 35  | 19  | TSH + 0.29 | 27901.1 | 0.29              | 0.54             | 28%TW              | 2005               | Yes. No change since initial detection.    | Foreign Object | No                        | No              | No                    |
| C  | 35  | 22  | TSH + 1.02 | 27901.1 | 0.35              | 0.54             | 29%TW              | 2005               | Yes. No change since initial detection.    | Foreign Object | No                        | No              | No                    |
| C  | 35  | 30  | TSH + 0.11 | 27901.1 | 0.29              | 0.49             | 32%TW              | 2005               | Yes. No change since initial detection.    | Foreign Object | No                        | No              | No                    |
| C  | 36  | 32  | BPH + 0.62 | 27901.1 | 0.24              | 0.43             | 21%TW              | 2015               | Yes. No change since 2008.                 | Foreign Object | No                        | No              | No                    |
| C  | 36  | 68  | TSH + 0.2  | 27901.1 | 0.57              | 0.49             | 26%TW              | 2005               | Yes. No change since initial detection.    | Foreign Object | No                        | No              | No                    |
| C  | 37  | 31  | TSH + 0.03 | 27901.1 | 0.4               | 0.43             | 25%TW              | 2011               | Yes. No change since 1996.                 | Foreign Object | No                        | No              | No                    |
| C  | 37  | 32  | TSH + 0.03 | 27901.1 | 0.3               | 0.49             | 23%TW              | 2011               | Yes. No change since 2005.                 | Foreign Object | No                        | No              | No                    |
| C  | 37  | 33  | TSH + 0.06 | 27901.1 | 0.3               | 0.54             | 26%TW              | 2011               | Yes. No change since 1996.                 | Foreign Object | No                        | No              | No                    |
| C  | 37  | 34  | TSH + 0.03 | 27901.1 | 0.36              | 0.54             | 26%TW              | 2009               | Yes. No change since 1996.                 | Foreign Object | No                        | No              | No                    |
| C  | 37  | 35  | BPH + 0.64 | 27901.1 | 0.4               | 0.49             | 31%TW              | 2005               | Yes. No change since initial detection.    | Foreign Object | No                        | No              | No                    |
| C  | 37  | 54  | TSH + 0.14 | 27901.1 | 0.29              | 0.43             | 23%TW              | 2005               | Yes. No change since initial detection.    | Foreign Object | No                        | No              | No                    |
| C  | 38  | 32  | BPH + 0.61 | 27901.1 | 0.3               | 0.43             | 24%TW              | 2011               | Yes. No change since 2005.                 | Foreign Object | No                        | No              | No                    |
| C  | 38  | 53  | TSH + 0.15 | 27901.1 | 0.24              | 0.49             | 22%TW              | 2005               | Yes. No change since initial detection.    | Foreign Object | No                        | No              | No                    |
| C  | 39  | 32  | BPH + 0.63 | 27901.1 | 0.24              | 0.38             | 22%TW              | 2011               | Yes. No change since 2005 based on bobbin. | Foreign Object | No                        | No              | No                    |
| C  | 39  | 32  | BPH + 0.61 | 27901.1 | 0.24              | 0.38             | 24%TW              | 2011               | Yes. No change since 2005 based on bobbin. | Foreign Object | No                        | No              | No                    |

| SG | Row | Col | Location   | ETSS    | Axial Length (in) | Circ Length (in) | Maximum Depth 2R27 | Initially Reported | Signal Present Prior to Current Outage? | Cause          | Foreign Object Remaining? | In-Situ Tested? | Plugged & Stabilized? |
|----|-----|-----|------------|---------|-------------------|------------------|--------------------|--------------------|---|----------------|---------------------------|-----------------|-----------------------|
| C  | 39  | 34  | BPH + 0.65 | 27901.1 | 0.29              | 0.59             | 23%TW              | 2011               | Yes. No change since 2005.              | Foreign Object | No                        | No              | No                    |
| C  | 40  | 34  | BPH + 0.6  | 27901.1 | 0.35              | 0.49             | 22%TW              | 2011               | Yes. No change since 2005.              | Foreign Object | No                        | No              | No                    |
| C  | 44  | 42  | TSH + 0.17 | 27901.1 | 0.35              | 0.43             | 23%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 44  | 43  | TSH + 0.18 | 27901.1 | 0.25              | 0.49             | 21%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 44  | 47  | TSH + 0.05 | 27901.1 | 0.35              | 0.43             | 25%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 44  | 60  | BPH + 0.24 | 96910.1 | 0.4               | 0.43             | 5%TW               | 2015               | Yes. No change since 2014.              | TSP Wear       | N/A                       | No              | No                    |
| C  | 45  | 42  | TSH + 0.31 | 27901.1 | 0.3               | 0.49             | 19%TW              | 2015               | Yes. No change since 2005.              | Foreign Object | No                        | No              | No                    |
| C  | 45  | 43  | TSH + 0.75 | 27901.1 | 0.35              | 0.38             | 19%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 45  | 43  | TSH + 0.26 | 27901.1 | 0.3               | 0.49             | 22%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 45  | 43  | TSH + 0.32 | 27901.1 | 0.29              | 0.43             | 23%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |
| C  | 45  | 47  | TSH + 0.19 | 27901.1 | 0.35              | 0.54             | 23%TW              | 2005               | Yes. No change since initial detection. | Foreign Object | No                        | No              | No                    |

**e. Number of tubes plugged during the inspection outage for each degradation mechanism,**

No tubes were plugged during RFO 2R27.

**f. The number and percentage of tubes plugged to date, and the effective plugging percentage in each steam generator.**

Table 4 provides the plugging totals and percentages to date.

**Table 4 – Tube Plugging Summary**

|       | <b>Tubes Installed</b> | <b>Tubes Plugged To-Date</b> |
|-------|------------------------|------------------------------|
| SG A  | 3,342                  | 30 (0.9%)                    |
| SG B  | 3,342                  | 19 (0.6%)                    |
| SG C  | 3,342                  | 50 (1.5%)                    |
| Total | 10,026                 | 99 (1.0%)                    |

**g. The results of condition monitoring, including the results of tube pulls and in-situ testing,**

All tubes with degradation identified during the Spring 2017 inspection satisfied condition monitoring requirements for SG tube structural and leakage integrity. Further, the results from the current outage inspection validate prior outage operational assessment assumptions. Tube pulls and in-situ pressure testing were not required during the current outage.

**h. The primary to secondary LEAKAGE rate observed in each SG (if it is not practical to assign the LEAKAGE to an individual SG, the entire primary to secondary LEAKAGE should be conservatively assumed to be from one SG) during the cycle preceding the inspection which is the subject of the report,**

Routine primary-to-secondary leak monitoring is conducted in accordance with station procedures. During the cycle preceding EOC27 refueling outage, no measurable primary-to-secondary leakage (i.e., >1 GPD) was observed in any Unit 2 SG.

- i. The calculated accident induced LEAKAGE rate from the portion of the tubes below 17.89 inches from the top of the tubesheet for the most limiting accident in the most limiting SG. In addition, if the calculated accident induced LEAKAGE rate from the most limiting accident is less than 1.80 times the maximum operational primary to secondary LEAKAGE rate, the report should describe how it was determined,***

The permanent alternate repair criteria (PARC) requires that the component of operational leakage from the prior cycle from below the H-star distance be multiplied by a factor of 1.8 and added to the total accident leakage from any other source and compared to the allowable accident induced leakage limit. Since there is reasonable assurance that no tube degradation identified during this outage would have resulted in leakage during an accident, the contribution to accident leakage from other sources is zero. Assuming that the prior cycle operational leakage of <1 GPD originated from below the H-star distance, and multiplying this leakage by a factor of 1.8 as required by the PARC, yields an accident induced leakage value of <1.8 GPD. This value is well below the 470 GPD limit for the limiting SG and provides reasonable assurance that the accident induced leakage performance criteria would not have been exceeded during a limiting design basis accident.

- j. The results of the monitoring for tube axial displacement (slippage). If slippage is discovered, the implications of the discovery and corrective action shall be provided.***

No indications of tube slippage were identified during the evaluation of bobbin probe examination data from SG B. All tubes in SGs A and C were screened for slippage during EOC26 (no indications were identified) and will again be screened during EOC28.

### **Acronyms**

|              |  |
|--------------|--|
| <b>AVB</b>   | Anti-Vibration Bar                         |
| <b>BPC</b>   | Baffle Plate Cold                          |
| <b>BPH</b>   | Baffle Plate Hot                           |
| <b>C/L</b>   | Cold Leg                                   |
| <b>ECT</b>   | Eddy Current Testing                       |
| <b>EFPM</b>  | Effective Full Power Month                 |
| <b>EOC</b>   | End of Cycle                               |
| <b>ETSS</b>  | Examination Technique Specification Sheet  |
| <b>FOSAR</b> | Foreign Object Search and Retrieval        |
| <b>GPD</b>   | Gallons Per Day                            |
| <b>H/L</b>   | Hot Leg                                    |
| <b>MRPC</b>  | Motorized Rotating Pancake Coil            |
| <b>NSAL</b>  | Nuclear Safety Advisory Letter             |
| <b>NTE</b>   | No Tube Expansion                          |
| <b>OD</b>    | Outer Diameter                             |
| <b>ODSCC</b> | Outside Diameter Stress Corrosion Cracking |
| <b>OVR</b>   | Over Roll                                  |
| <b>EXP</b>   | Over Expansion                             |
| <b>PARC</b>  | Permanent Alternate Repair Criteria        |
| <b>PLP</b>   | Possible Loose Part                        |
| <b>PWSCC</b> | Primary Water Stress Corrosion Cracking    |
| <b>SCC</b>   | Stress Corrosion Cracking                  |
| <b>SG</b>    | Steam Generator                            |
| <b>TEC</b>   | Tube End Cold-leg                          |
| <b>TEH</b>   | Tube End Hot-leg                           |
| <b>TSC</b>   | Top of Tube Sheet Cold-leg                 |
| <b>TSH</b>   | Top of Tube Sheet Hot-leg                  |
| <b>TSP</b>   | Tube Support Plate                         |
| <b>TTS</b>   | Top of Tubesheet                           |
| <b>TW</b>    | Through Wall                               |