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 FALL 2015 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 Fall 2015 refueling outage.

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

Very truly yours,

Douglas C. Lawrence
Director Station Safety & Licensing
Surry Power Station

Attachment: Surry Unit 2 Steam Generator Tube Inspection Report for the Fall 2015 Refueling Outage

Commitments made in this letter: None

A001
NRR

cc: U.S. Nuclear Regulatory Commission
Region II
Marquis One Tower
245 Peachtree Center Avenue NE
Suite 1200
Atlanta, Georgia 30303-1257

Ms. K. R. Cotton Gross
NRC Project Manager – Surry
U. S. Nuclear Regulatory Commission
One White Flint North
Mail Stop 08 G-9A
11555 Rockville Pike
Rockville, Maryland 20852-2738

Dr. V. Sreenivas
NRC Project Manager – North Anna
U. S. Nuclear Regulatory Commission
One White Flint North
Mail Stop 08 G-9A
11555 Rockville Pike
Rockville, Maryland 20852-2738

NRC Senior Resident Inspector
Surry Power Station

Mr. R. A. Smith
Authorized Nuclear Inspector
Surry Power Station

Serial No.: 16-196
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ATTACHMENT 1

SURRY UNIT 2
STEAM GENERATOR TUBE INSPECTION REPORT FOR THE FALL 2015 REFUELING OUTAGE

VIRGINIA ELECTRIC AND POWER COMAPNY
(DOMINION)

SURRY UNIT 2
STEAM GENERATOR TUBE INSPECTION REPORT
FOR THE FALL 2015 REFUELING OUTAGE

The following satisfies the Surry Power Station Technical Specification (TS) reporting requirement section 6.6.A.3. During the Surry Unit 2 Fall 2015 refueling outage (RFO), steam generator (SG) inspections in accordance with TS 6.4.Q were completed for SG A and SG C.

This was the third inspection in the 4th inspection period which has a duration of 72 effective full power months (EFPM).

Surry Unit 2 exceeded 200°F on November 28, 2015; therefore, this report is required to be submitted by May 26, 2016. At the time of this inspection, the Unit 2 SGs had operated for 333.0 EFPM since the first inservice 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 attached at the end of this report.

A report shall be submitted within 180 days after Tavg 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

A summary of the eddy current tube examinations performed during the outage is provided in Table 1. The only scope expansions required in SG A and SG C were those necessary to bound foreign objects and foreign object related degradation, as well as to resolve ambiguous indications. The inspection scope was expanded into SG B based on the finding of circumferential primary water stress corrosion cracking (PWSCC) within the hot leg tubesheet of SG C (see item e below for more detail). The eddy current scope in SG B was focused on the detection of stress corrosion cracking (SCC) in susceptible locations in the hot leg tubesheet; therefore, a 50% sample of the hot leg tubesheet locations with array probes was examined. No bobbin inspections or cold leg tubesheet inspections were performed.

The primary side work scope also included as-found and as-left visual examinations in the hot and cold leg primary side channel heads in SGs A, B, and C. The examination included the divider plate, welds, cladding, the "mouse-hole" region per NSAL-12-1, previously installed plugs, and manway flanges. No abnormal or degraded conditions were identified from these examinations.

Secondary Side

During the Surry Unit 2 Fall 2015 RFO, a visual inspection of upper steam drum moisture separator components, feedring components, and top of bundle U-bend region components through the secondary manway in SG A was performed. This included all accessible steam drum components and structures, including the feedring exterior, the upper tube bundle, and 7th tube support plate (TSP) via probe insertions through the primary moisture separators. No degradation or adverse conditions were noted during these inspections. Sludge lancing was performed in all three SGs. Foreign Object Search and Retrieval (FOSAR) examinations were performed in SGs A, B, and C at the top of the tubesheet, in the annulus, and in the no-tube lane as necessary.

Table 1 – Eddy Current Testing Examination Scope

Scope Description	Extent	SG A	SG B	SG C
Bobbin Coil Exams				
Full Length	TEHTEC	2849		2831
H/L CandyCane (Row 3-5)	07CTEH	278		282
H/L Straight (R1-2)	07HTEH	185		182
H/L Straight Restricted	07HTEH			1
C/L CandyCane Restricted	02HTEC			1
C/L Straight Restricted	07CTEC	1		2
C/L Straight (R1-5)	07CTEC	462		463
Array Exams				
H/L TSH Array (Non-Baffle Plate)	TSH01H	834	444	843
H/L TSH Array (Baffle Plate)	TSHBPH	2478	1260	2453
C/L TSC Array (Non-Baffle Plate)	TSC01C	834		842
C/L TSC Array (Baffle Plate)	TSCBPC	2478		2453
MRPC Exams				
Ubend +Point™ (Row 1-2)	07H07C	185		182
MRPC Special Interest				
H/L Previous Indications	Various	120		172
H/L Previous Restricted	02H03			1
C/L Previous Restricted	Various			8
H/L Current Indications	Various	97	7	92
Ubend Current Indications	Various	2		1
C/L Previous Indications	Various	8		7
C/L Current Indications	Various	36		20
Indications For MagBias Probe	Various	1		2
Additional RPC	TEHTSH		2	
	Total	10848	1713	10838

b. Degradation mechanisms found

Degradation mechanisms targeted by the inspection plan included anti-vibration bar (AVB) wear, pitting, foreign object wear, tube support wear and SCC at various locations within the steam generator tube bundle. AVB wear, foreign object wear, tube support plate wear, and PWSCC were detected during the current outage.

c. Nondestructive examination techniques utilized for each degradation mechanism

The inspection program focused on the degradation mechanisms listed in Table 2 and utilized the referenced eddy current techniques.

Table 2 – Inspection Method for Applicable Degradation Modes

Classification	Degradation Mechanism	Location	Probe Type
Existing	Tube Wear	Anti-Vibration Bars	Bobbin – Detection and Sizing
Existing	OD Pitting	Top-of-Tubesheet	Bobbin and +Point™ – Detection +Point™ - Sizing
Existing	Tube Wear	Tube Support Plate	Bobbin – Detection +Point™ – Sizing
Existing	Tube Wear (foreign objects)	Freespan and TTS	Bobbin and +Point™ – Detection +Point™ - Sizing
Potential	ODSCC PWSCC	Hot Leg Top-of-Tubesheet	+Point™ – Detection and Sizing
Potential	PWSCC	Tube Ends	N/A*
Potential	Tube Wear	Flow Distribution Baffle	Bobbin – Detection +Point™ – Sizing
Potential	ODSCC PWSCC	Bulges, Dents, Manufacturing Anomalies, and Above-Tubesheet Overexpansions (OVR)	+Point™ – Detection and Sizing
Potential	ODSCC	Tubesheet Crevice in Tubes With NTEs	+Point™ – Detection and Sizing
Potential	Tube Slippage	Within Tubesheet	Bobbin Detection
Potential	PWSCC	Tubesheet Overexpansions (OXP)	+Point™ – Detection and Sizing
Potential	ODSCC PWSCC	Row 1 and 2 U-bends	+Point™ – Detection and Sizing
Potential	ODSCC	Freespan and Tube Supports	Bobbin – Detection +Point™ - Sizing

*Inspection not required per technical specification alternate repair criteria.

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

As stated in item b above, service induced indications were identified. Tables 3 through 6 provide information regarding these indications.

Table 3 - AVB Indications for SG A

SG	Row	Col	AVB No.	Depth (%TW) ETSS 96041.1	
				2012	2015
SGA	25	57	AV2	16	21
SGA	26	9	AV4	12	10
SGA	26	86	AV3	17	21
SGA	29	28	AV3	NR	13
SGA	29	70	AV2	11	11
SGA	30	12	AV1	10	10
SGA	30	64	AV2	7	8
SGA	33	26	AV4	NR	12
SGA	36	62	AV2	24	27
SGA	36	62	AV3	14	16
SGA	36	62	AV4	27	31
SGA	36	66	AV2	12	16
SGA	36	66	AV3	10	13
SGA	37	20	AV1	13	12
SGA	37	20	AV4	12	10
SGA	38	57	AV1	13	13
SGA	38	70	AV3	NR	11
SGA	38	72	AV4	23	26
SGA	38	74	AV4	17	22
SGA	40	25	AV4	12	8
SGA	40	49	AV1	11	15
SGA	40	49	AV2	10	10
SGA	40	49	AV3	11	11
SGA	40	65	AV2	18	21
SGA	40	65	AV3	10	15
SGA	40	65	AV4	10	9
SGA	40	66	AV3	9	14

SG	Row	Col	AVB No.	Depth (%TW) ETSS 96041.1	
				2012	2015
SGA	42	62	AV3	NR	10
SGA	44	35	AV1	NR	10
SGA	44	38	AV2	11	9
SGA	45	44	AV2	11	11
SGA	46	45	AV1	13	10

NR = Not Reported during the previous outage

Table 4 - AVB Indications for SG C

SG	Row	Col	AVB No.	Depth (%TW) ETSS 96041.1	
				2012	2015
SGC	24	8	AV4	9	10
SGC	25	9	AV1	8	8
SGC	25	9	AV3	11	10
SGC	25	27	AV1	18	17
SGC	25	27	AV2	32	32
SGC	25	27	AV3	13	12
SGC	25	29	AV2	12	8
SGC	25	29	AV3	26	20
SGC	26	26	AV3	17	19
SGC	26	26	AV4	17	17
SGC	26	39	AV3	20	15
SGC	27	84	AV4	11	7
SGC	31	65	AV2	17	13
SGC	31	69	AV2	26	19
SGC	31	69	AV3	20	17
SGC	31	75	AV3	11	13
SGC	31	75	AV4	16	13
SGC	33	59	AV3	21	19
SGC	33	59	AV4	11	12
SGC	33	67	AV3	NR	10

SG	Row	Col	AVB No.	Depth (%TW) ETSS 96041.1	
				2012	2015
SGC	33	68	AV1	18	20
SGC	33	68	AV2	20	19
SGC	33	69	AV1	10	9
SGC	33	69	AV2	13	11
SGC	33	70	AV1	10	8
SGC	33	70	AV3	16	16
SGC	34	29	AV3	11	12
SGC	34	29	AV4	17	16
SGC	34	79	AV1	8	11
SGC	35	77	AV2	10	11
SGC	35	77	AV3	10	10
SGC	37	63	AV2	13	11
SGC	37	73	AV3	15	17
SGC	37	75	AV3	12	11
SGC	38	28	AV1	10	7
SGC	38	28	AV3	17	14
SGC	38	30	AV2	12	13
SGC	38	43	AV3	15	11
SGC	38	73	AV1	11	9
SGC	38	73	AV2	9	8
SGC	38	74	AV2	8	8
SGC	39	50	AV3	14	13
SGC	39	53	AV3	30	28
SGC	39	55	AV3	27	25
SGC	39	55	AV3	18	12
SGC	39	55	AV4	26	25
SGC	39	71	AV3	12	8
SGC	39	72	AV4	5	10
SGC	40	33	AV2	23	24
SGC	40	33	AV3	23	25
SGC	40	63	AV2	9	9
SGC	40	63	AV3	19	15
SGC	40	63	AV4	19	16

SG	Row	Col	AVB No.	Depth (%TW) ETSS 96041.1	
				2012	2015
SGC	41	35	AV3	NR	11
SGC	41	64	AV1	11	9
SGC	41	66	AV3	12	14
SGC	41	68	AV4	10	10
SGC	43	39	AV2	16	13
SGC	43	61	AV1	25	22
SGC	43	63	AV1	14	15
SGC	44	61	AV1	11	10
SGC	45	58	AV3	NR	13
SGC	46	45	AV2	8	11
SGC	46	45	AV3	NR	10
SGC	46	46	AV1	NR	10
SGC	46	46	AV2	NR	12
SGC	46	46	AV3	NR	13
SGC	46	46	AV4	NR	10

NR = Not Reported during the previous outage

Table 5 - Summary of Non-AVB Volumetric Degradation Identified

SG	Row	Col	Location	ETSS	Max Depth (%TW)	Initially Reported	Signal Present Prior to Current Outage?	Cause	Foreign Object Remaining?	Plugged?
A	4	37	TSC+0.82	27901.1	20 %TW	2015	Yes. No signal change since 1995.	Foreign Object	No	No
			TSC+1.81	27901.1	27 %TW	2015	Yes. No signal change since 1995.	Foreign Object	No	No
A	6	60	5H-0.59	96910.1	13 %TW	2009	Yes. No signal change since 2002.	TSP Wear	N/A	No
A	11	45	TSH+0.96	27901.1	27 %TW	2012	Yes. No signal change since 2006.	Foreign Object	No	No
A	15	16	TSH+0.23	27901.1	25 %TW	2012	No signal present in 2006 exam.	Foreign Object	No	No
A	17	16	TSH+0.04	27901.1	31 %TW	2002	Yes. No signal change.	Foreign Object	No	No
A	18	16	TSH+0.02	27901.1	30 %TW	2002	Yes. No signal change.	Foreign Object	No	No
A	32	27	TSC+0.02	27901.1	20 %TW	2006	Yes. No signal change.	Foreign Object	No	No
A	33	27	TSC+0.12	27901.1	25 %TW	2006	Yes. No signal change.	Foreign Object	No	No
A	39	24	TSH+0.45	27901.1	20 %TW	2009	Yes. No signal change since 2006.	Foreign Object	No	No
A	42	52	TSC+0.26	27901.1	20 %TW	2009	Yes. No signal change since 2009.	Foreign Object	No	No
A	43	61	BPH+0.56	27901.1	23 %TW	2009	Yes. No signal change since 2002.	Foreign Object	No	No
A	43	64	BPH+0.62	27901.1	24 %TW	2009	Yes. Possible minor signal change 2002 to 2009. No change since.	Foreign Object	No	No

SG	Row	Col	Location	ETSS	Max Depth (%TW)	Initially Reported	Signal Present Prior to Current Outage?	Cause	Foreign Object Remaining?	Plugged?
C	3	72	3C+0.47	96910.1	4 %TW	2011	Yes, in 1996 bobbin data. No RPC.	TSP Wear	N/A	No
			3C+0.48	96910.1	2 %TW	2011				
C	28	22	TSH+0.17	27901.1	29 %TW	2014	Yes. No change since initial detection.	Foreign Object	No	No
C	28	23	TSH+0.52	27901.1	29 %TW	2014	Yes. No change since initial detection.	Foreign Object	No	No
			TSH+0.21	27901.1	29 %TW	2014	Yes. No change since initial detection.	Foreign Object	No	No
C	28	71	TSH+0.27	27901.1	24 %TW	2009	Yes. No signal change since 1996.	Foreign Object	No	No
C	28	84	03H+0.50	96910.1	5 %TW	2014	Yes, based on lookup. Unchanged since 1996.	TSP Wear	N/A	No
C	30	48	BPH+0.58	27901.1	20 %TW	2015	Yes. Present in 2014 X-Probe data with no change.	Foreign Object	No	No
C	30	74	TSH+6.47	27901.1	20 %TW	2014	Yes, based on lookup. Unchanged since 1996.	Foreign Object	No	No
C	32	36	BPH+0.58	27901.1	19 %TW	2009	Yes. No signal change.	Foreign Object	No	No
C	33	17	TSH+2.69	27901.1	20 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	34	18	TSH+0.97	27901.1	22 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	34	20	TSH+0.91	27901.1	25 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	34	74	TSH+0.06	27901.1	27 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	35	19	TSH+0.32	27901.1	29 %TW	2005	Yes. No signal change.	Foreign Object	No	No

SG	Row	Col	Location	ETSS	Max Depth (%TW)	Initially Reported	Signal Present Prior to Current Outage?	Cause	Foreign Object Remaining?	Plugged?
C	35	22	TSH+1.03	27901.1	29 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	35	30	TSH+0.11	27901.1	35 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	36	32	BPH+0.55	27901.1	21 %TW	2015	Yes. No change since 2008.	Foreign Object	No	No
C	36	68	TSH+0.17	27902.1	26 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	37	31	TSH+0.09	27901.1	26 %TW	2011	Yes, in 1996 3-coil data. No change.	Foreign Object	No	No
C	37	32	TSH+0.02	27901.1	23 %TW	2011	Yes, in 2005 +Point™ data. No change.	Foreign Object	No	No
C	37	33	TSH+0.04	27901.1	26 %TW	2011	Yes, in 1996 3-coil data. No change.	Foreign Object	No	No
C	37	34	TSH-0.06	27901.1	26 %TW	2009	Yes. No signal change since 1996.	Foreign Object	No	No
C	37	35	BPH+0.60	27901.1	33 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	37	54	TSH+0.12	27901.1	24 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	37	73	7C-0.48	96910.1	13 %TW	2005	Yes. No change since initial detection.	TSP Wear	N/A	No
			7C-0.52	96910.1	6 %TW	2011				
C	38	32	BPH+0.60	27901.1	26 %TW	2011	Yes, present in 2005 bobbin data. No RPC.	Foreign Object	No	No
C	38	53	TSH+0.08	27901.1	22 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	39	32	BPH+0.61	27901.1	22 %TW	2011	Yes, present in 2005 bobbin data. No RPC.	Foreign Object	No	No
			BPH+0.60	27901.1	24 %TW	2011			No	No

SG	Row	Col	Location	ETSS	Max Depth (%TW)	Initially Reported	Signal Present Prior to Current Outage?	Cause	Foreign Object Remaining?	Plugged?
C	39	34	BPH+0.57	27901.1	24 %TW	2011	Yes, present in 2005 bobbin data. No RPC.	Foreign Object	No	No
C	40	34	BPH+0.60	27901.1	22 %TW	2011	Yes, present in 2005 bobbin data. No RPC.	Foreign Object	No	No
C	44	42	TSH+0.12	27901.1	24 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	44	43	TSH+0.19	27901.1	26 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	44	47	TSH+0.06	27901.1	26 %TW	2005	Yes. No signal change.	Foreign Object	No	No
C	44	60	BPH+0.17	96910.1	7 %TW	2015	Yes. Present in 2014 bobbin data with no change.	TSP Wear	N/A	No
C	45	42	TSH+0.26	27901.1	19 %TW	2015	Present in 2005 +Point™ data with no change.	Foreign Object	No	No
C	45	43	TSH+0.23	27901.1	23 %TW	2005	Yes. No signal change.	Foreign Object	No	No
			TSH+0.24	27901.1	24 %TW					
			TSH+0.72	27901.1	20 %TW					
C	45	47	TSH+0.17	27901.1	23 %TW	2005	Yes. No signal change.	Foreign Object	No	No

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

Three tubes (see Table 6) required plugging as a result of circumferential cracks from PWSCC which was identified during the Fall 2015 RFO. One additional tube (SG C R20 C62) was preventatively plugged. This tube was inspected full length and determined to have no degradation. The tube was plugged because the tube is dented at the 7th TSP making it difficult to inspect without examining the tube several times.

Table 6 - Circumferential PWSCC Indications

SG	Row	Col	Ind	Location	+Point™ Volts	Max Depth	Arc Length	PDA
SGC	6	41	SCI	TEH +18.25"	0.88	65%TW	85°	15
SGC	7	46	SCI	TEH +15.56"	0.78	50%TW	78°	11
SGC	27	65	SCI	TEH +16.04"	1.30	60%TW	99°	17

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

Table 7 provides the plugging totals and percentages to date.

Table 7 – Tube Plugging Summary

	Tubes Installed	Tubes Plugged To Date
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

Based on the results of the primary and secondary side inspections performed during this outage, all degradation identified during the Fall 2015 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 the Fall 2015 RFO, 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 SGs A or C. Note that no bobbin probe examinations were performed in SG B during the Fall 2015 RFO. All tubes in SG B were screened for slippage during the Spring 2014 (no indications were identified) and will again be screened during the Spring 2017 RFO.

Acronyms

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