

L-2010-075 10 CFR 50.36

U. S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, D.C. 20555-00001

Re: Turkey Point Unit 4

Docket No. 50-251

Steam Generator Tube Inspection Report

The attached Turkey Point Unit 4 End of Cycle (EOC) 24 Steam Generator Tube Inspection Report is submitted to NRC in accordance with Turkey Point Technical Specification 6.9.1.8, and within 180 days after the initial entry to MODE 4 following completion of the inspections performed in accordance with Technical Specification 6.8.4.j, Steam Generator (SG) Program.

The report includes the following:

- a. The scope of inspections performed on each SG,
- b. Active degradation mechanisms found,
- c. Nondestructive examination techniques utilized for each degradation mechanism,
- d. Location, orientation (if linear), and measured sizes (if available) of service induced indications,
- e. Number of tubes plugged during the inspection outage for each active degradation mechanism.
- f. Total number and percentage of tubes plugged to date,
- g. The results of condition monitoring, including the results of tube pulls and in-situ testing,
- h. The effective plugging percentage for all plugging in each SG,
- i. The primary to secondary leakage rate observed in each SG during the cycle preceding the inspection which is the subject of the report,
- j. The calculated accident induced leakage rate from the portion of the tubes below 17.28 inches from the top of the tubesheet for the most limiting accident in the most limiting SG, and
- k. The results of monitoring for tube axial displacement (slippage).

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Should there be any questions, please contact Robert Tomonto at (305) 246-7327.

Sincerely,

Michael Kiley Vice President

Turkey Point Nuclear Plant

Enclosure Attachments

cc: Regional Administrator, Region II, USNRC.

Senior Resident Inspector, USNRC, Turkey Point Plant

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Background

This report is provided in accordance with Turkey Point Unit 4 Technical Specification 6.9.1.8, "Steam Generator Tube Inspection Report" for the inspection conducted November 5-13, 2009, during the End of Cycle (EOC) 24 refueling outage. The EOC 24 refueling outage was the second refueling outage in the third inspection period (60 EFPM) of the Westinghouse model 44F steam generators (SGs) replaced in April, 1983. The SGs had accumulated 20.37 Effective Full Power Years (EFPY) of operation at the EOC 24. The Steam Generator Tubing Inspection performed during the EOC 24 refueling outage is the only inspection scheduled in the first half of the third inspection period.

Following the EOC 24 refueling outage, Turkey Point Unit 4 initially entered HOT SHUTDOWN (Mode 4) on November 24, 2009. Pursuant to Turkey Point Unit 4 Technical Specification 6.9.1.8, this report is required to be submitted to the NRC 180 days after initial entry into MODE 4, or by May 24, 2010.

The EOC 24 SG tube inspections were conducted in all three SGs (4A, 4B, & 4C) as described below.

a. The scope of inspection performed on each steam generator

The scope of this examination is summarized in Table 1 below and is established to meet the following requirements:

- a. Technical Specification 6.8.4.j "Steam Generator (SG) Program"
- b. Steam Generator Management Program: Pressurized Water Reactor Steam Generator Examination Guidelines: Revision 7. EPRI, Palo Alto, CA: 2007. 1013706.

The basis for bobbin and +Point[™] tube examinations is given in Table 1.

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TABLE 1 BASIS FOR TUBE EXAMINATION SAMPLES

| Technique | Examination Sample | Required or Supplemental | Basis | Potential Degradation |
|-----------------------|--|-----------------------------|--|--|
| | 100% full length in rows 3 and higher. Row 1 & 2 examinations were limited to the hot leg and cold leg straight sections. | Required ⁽¹⁾ | Degradation Assessment | Wear/ ODSCC |
| Bobbin | Screening of 100% of dings ≤ 5 volts in straight sections (verticals) | Required ⁽¹⁾ | Degradation Assessment | ODSCC |
| | This included tubes with low-voltage u-bend offset tubes. 100% of the hot leg tubesheet to the extent of TTS + 3.00" to -17.28". The hot leg full depth tubesheet examination included two unexpanded tubes in S/G "A" and five unexpanded tubes in S/G "B" identified with previous NTE indications (No Tube Expansion). (No tubes were identified with NTE indications in S/G "C".) Note: Unexpanded tubes were plugged in accordance with commitments made for license amendment 236 (Ref. 1). | Required ⁽¹⁾ | ENG CSI-2.2, Rev. 31, Checklist item 1.D, and the Degradation Assessment. | Foreign Object Wear PWSCC ODSCC |
| | Cold Leg Periphery Expansion Transitions - +3"/-2" from top of tubesheet. Two outermost peripheral tubes exposed to the annulus, and all open row 1 and 2 tubes in columns 1-92 completed the periphery examination. | Required | ENG CSI-2.2, Rev. 31, Checklist item 1.D., and the Degradation Assessment. | Foreign Object Wear |
| -+Point TM | CL full depth tubesheet One unexpanded tube in S/G "A" and one unexpanded tube in S/G "B" identified with previous NTE indications (No Tube Expansion) required a full tubesheet inspection. (No tubes were identified with NTE indications in S/G "C"). Note: Unexpanded tubes were plugged in accordance with commitments made for license amendment 236 (Ref. 1). | Required | ENG CSI-2.2, Rev. 31, Checklist item 1.D., and the Degradation Assessment. | PWSCC ODSCC |
| | Tight radius u-bends – 100% of row 1 and 2 | Required ⁽¹⁾ | Degradation Assessment. | PWSCC ODSCC |
| | 100% of hot leg freespan dings ≥ 5 volts between TSH and 06H +1.00". | Required ⁽¹⁾ | Degradation Assessment. | PWSCC ODSCC |
| | 100% of u-bend dings | Required ⁽¹⁾ | Degradation Assessment. | PWSCC ODSCC |
| | 100% of hot leg dents/dings at structures. | Required ⁽¹⁾ | Degradation Assessment. | PWSCC ODSCC |

^{1.} A 100% sample size is supplemental. The minimum sample size required by the SG Program is 50%.

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b. Active degradation mechanism found

The EOC 24 bobbin and +Point[™] examination results for Turkey Point Unit 4 identified mechanical wear as an existing degradation mechanism at the following locations:

- Anti-vibration bar (AVB) contact points in the u-bends
- Broached tube support contact points
- Flow Baffle Plates

No other degradation mechanisms were identified in this inspection.

c. Nondestructive examination techniques utilized for each degradation mechanism

TABLE 2 – Turkey Point Unit 4 Examination Techniques for EOC 24 (October 2009)

| | Fachaiann | Industry | Damage | Demonstrated | Extended | Depth Sizing Technique | | ecific Review d Acceptable |
|----|-----------|---------------------------|---------------|---|--|---|-----------|-----------------------------------|
| | Technique | Qualification | Mechanism | Applicability | Applicability | Applied | Detection | Sizing |
| ŧ | Bobbin | 96001.1 Revision 11 | Thinning | Top of Tubesheet and TSP | Above Tubesheet | Differential Mix Phase Analysis | Yes | For Information |
| 2 | Bobbin | 96004.1 Revision 12 | Wear | AVBs TSPs Diagonal and Vertical Straps | None | Differential Mix Amplitude Analysis (Using Vert-Max) | Yes | For Service |
| 3 | Bobbin | 96004.2 Revision 12 | | | None | Absolute Mix Amplitude Analysis (Using Vert-Max) | Yes | For Information |
| 4 | Bobbin | 96005.2 Revision 9 | Pitting | Freespan in the Presence of Copper | Sludge Pile | Not Sized with Bobbin | Yes | For Information |
| 5 | Bobbin | 24013.1 Revision 2 | ODSCC | Freespan Dings ≤5.00 Volts | None | Not Sized with Bobbin | Yes | For Information |
| 6 | Bobbin | I-28411 Revision 2 | Axial ODSCC | Drilled TSP With / Without Dents < 2.0 Volts | None | Not Sized with Bobbin | Yes | For Information |
| 7 | Bobbin | I-28412 Revision 2 | Axial ODSCC | Freespan | None | Not Sized with Bobbin | Yes | For Information |
| 8 | Bobbin | I-28413 Revision 2 | Axial ODSCC | Broached TSP, Sludge Pile | None | Not Sized with Bobbin | Yes | For Information |
| 9 | Bobbin | 27091.2 Revision 0 | PLP Wear | PLP Wear (part not present) | Part Present | N/A | Yes | N/A |
| 10 | +Point™ | 96511.1/.2 Revision 16 | PWSCC | Low Row U-bend | None | Single Frequency Phase Analysis | Yes | For Information |
| 11 | +Point™ | 20510.1 Revision 7 | Circ PWSCC | Expansion Transition | Dent, Dings, Non-Dented Support Structures, Tubesheet | Single Frequency Phase Analysis | Yes | For Information |
| 12 | +Point™ | 20511.1 Revision 8 | Axial PWSCC | Expansion Transition | Non-Dented Support Structures, Tubesheet | Single Frequency Phase Analysis | Yes | For Information |
| 13 | +Point™ | 96703.1 Revision 17 | Axial PWSCC | Dent | Non-Dented Support Structures, Tubesheet | Single Frequency Phase Analysis | Yes | For Information |
| 14 | +Point™ | 22401.1 Revision 4 | Axial ODSCC | Dented Support Structures | None | Single Frequency Phase Analysis | Yes | For Information |
| 15 | +Point™ | 96910.1 Revision 10 | Wear | Broached TSP | None | Differential Mix Amplitude Analysis (Using Vert-Max) | Yes | For Service |
| 16 | +Point™ | 21998.1 Revision 4 | Volumetric | Freespan | None | Single Frequency Amplitude Analysis (Using Peak-Peak) | Yes | For Service only if non-corrosion |
| 17 | +Point™ | 22842.3 Revision 5 | Circ ODSCC | Dented Support Structures | None | Length Sizing using From/To | Yes | For Information |
| 18 | +Point** | 21410.1* Revision 5 | Circ ODSCC | Expansion transition | TSP, Freespan, Sluage Pile, Tubesheet, Dents, Dings, U-bend Axial / Circ ** | Single Frequency Phase Analysis | Yes | For Information |

^{*} The sizing parameters in EPRI ETSS 21410.1 are equivalent to those listed in EPRI Report TR 107197-P1

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Table 2 continued

| Ţ | [echnique | Industry Qualification | Damage Mechanism | Demonstrated Applicability | Extended Applicability | Depth Sizing Technique | | ecific Review I Acceptable |
|----|--------------------|---|---------------------|---|--|---|---|-------------------------------|
| | | Guainication | Modifications | Applicability | Whiteaping | Applied | Detection | Sizing |
| 19 | +Point™ | 96701.1 Revision 12 | Circ PWSCC | Expansion Transition | Dents, Dings, Tubesheet | Single Frequency Amplitude Analysis (Using Peak-Peak) Based on Max Depth Phase | Yes | For Information |
| 20 | +Point™ | 27901.1 27902.1 27903.1 27904.1 27905.1 27906.1 27907.1 Revision 0 | PLP Wear | PLP Wear Morphology Dependent (part not present) | None | PLP Wear Morphology Dependent (part not present) | Yes | For Service |
| 21 | +Point™ | I- 28424 Revision 2 | Axial ODSCC | Sludge Pile | None | Not qualified | Yes | No |
| 22 | +Point™ | I-28425 Revision 2 | Axial ODSCC | Freespan, Broached TSP | None | Not qualified | Yes | No |
| 23 | +Point™ | I-28431 Revision 1 | Axial ODSCC | Sludge Pile | None | Single Frequency Amplitude Analysis | No | For Information |
| 24 | +Point" | I-28432 Revision 1 | Axial ODSCC | Freespan, Broached TSP | None | Single Frequency Amplitude Analysis | No | For Information |
| 25 | .115 Pancake | 21401.1 Revision 5 | Axial ODSCC | All Locations except Ubends, Dents, Expansions | None | Single Frequency Phase Analysis | +Point™ is the primary detection coil | For Information |
| 26 | .115 Pancake | 21402.1 Revision 5 | Circ ODSCC | Expansion Transition | Sludge Pile | Single Frequency Phase Analysis | | For Information |
| 27 | .115 Pancake | 21503.1 Revision 4 | Axial PWSCC | Expansion Transition | Sludge Pile | Single Frequency Phase Analysis | +Point** is the primary | For Information |
| 28 | ,115 Pancake | 21504.1 Revision 4 | Circ PWSCC | Expansion Transition | Sludge Pile | Single Frequency Phase Analysis | detection coil | For Information |
| 29 | .115 Pancake | 99998.1 Revision 5 | Pitting | Freespan in the Presence of Copper | None | Single Frequency Amplitude Analysis (Using Peak-Peak) | Info only: Use 96005.2 for pits in the studge pile | For Information |
| 30 | .115 Pancake | 96911.1 Revision 9 | Wear | Broached TSP | PLP Wear | Absolute Mix Amplitude Analysis (Using Vert-Max) | | For Service |
| 31 | .080 HF Pancake | 21505.1 Revision 3 | Axial PWSCC | Expansion Transition | Sludge Pile | Single Frequency Phase Analysis | +Point™ is the primary detection coil | For Information |
| 32 | .080 HF Pancake | 21506.1 Revision 4 | Circ PWSCC | Expansion Transition | Sludge Pile | Single Frequency Phase Analysis | | For Information |
| 33 | +Point™ | 21409.1 Revision 4 | Axial ODSCC | support structures. Freespan region,sludge pile and tubesheet crevice | Expansion Transition Axial / Circ * | Single Frequency Phase Analysis | Yes | For Information |

[•] The sizing parameters in EPRI ETSS 21410.1 are equivalent to those listed in EPRI Report TR 107197-P1.

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

Please see Attachments 1, 2 & 3 for indication listings for SG 4A, 4B and 4C respectively. All wear indications are on the outer surface of the tubing and the predominant orientation is axial.

e. Number of tubes plugged during the inspection for each nonconforming condition

Table 3 - Turkey point Unit 4 Tube Plugging EOC 24

| Condition | SG 4A | SG 4B | SG 4C | Total | | | | | | | | |
|---|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| No Tube Expansion (NTE) for H* criteria (1) | 3 | 6 | 0 | 9 | | | | | | | | |
| Bottom Expansion Transition (BET) for H* criteria (2) | 0 | 1 | 0 | 1 | | | | | | | | |
| Preventative Tube Plug (PTP) for Indication with no qualified sizing technique ⁽³⁾ | 1 | 0 | 0 | 1 | | | | | | | | |
| Total | 4 | 7 | О | 11 | | | | | | | | |

- (1) Tubes with no tube expansion were determined to represent significant deviations in the location of the bottom of the expansion transition (BET) in accordance with commitment #2 in FPL letter L-2009-209 dated September 30, 2009 (Ref. 1).
- (2) SG B R24C19 hot leg BET was located 1.07" below the top of tubesheet. This BET variation was not considered significant, but was conservatively removed from service.
- (3) Row 33 column 78 in SG 4A was preventively plugged due to the presence of a wear indication associated with the AV3 structure and a coincident dent signal. No qualified sizing technique was available to allow the tube to remain in service.

f. Total number and percentage of tubes plugged to date

Table 4

| Turkey Point Unit 4 Steam Generator Cumulative Tube Plugging Summary EOC 24 | | | | | | | | | | |
|--|---------------------|-------|--|--|--|--|--|--|--|--|
| SG | # Plugged % Plugged | | | | | | | | | |
| 4A | 33 | 1.03% | | | | | | | | |
| 4B | 20 | 0.62% | | | | | | | | |
| 4C | 11 | 0.34% | | | | | | | | |

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

All tubes inspected met the tube integrity performance criteria in TS 6.8.4.j.b and condition monitoring requirements. No tubes required in-situ pressure testing. No tube removal was required.

h. The effective plugging percentage for all plugging in each steam generator

No tube repair methods (i.e. sleeving) are approved for Turkey Point Unit 4 that would have an effect on the effective plugging percentages. Therefore, the effective plugging percentage is synonymous with the % Plugged in item f. above.

Note: Report items i, j, and k. are applicable following completion of inspections performed through Refueling Outage 25 [EOC 24] at Unit 4 (and any inspections performed in the subsequent operating cycles until the next scheduled inspection).

i. The primary to secondary leakage rate 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 subject to the report.

No primary to secondary leakage was reported during the preceding cycle of operation.

j. The calculated accident induced leakage rate from the portion of the tubes below 17.28 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 SG is less than 1.82 times the maximum operational primary to secondary leakage rate, the report should describe how it was determined, and

The accident induced leakage rate from the portion of the tubes below 17.28 inches from the top of the tubesheet is calculated as a ratio of observed normal operating leakage that cannot be attributed to a source other than the tubesheet expansion region. For the operating period preceding the EOC 24 inspection, no operational primary-to-secondary leakage has been observed. Further, there are no degradation mechanisms that have the potential for leakage.

For Turkey Point Unit 4, the maximum operational primary to secondary leakage rate from the portion of the tubes below 17.28 inches from the top of the tubesheet is multiplied by a factor of 1.82 to determine the accident induced leakage. Since no operational primary-to-secondary leakage has been observed, the calculated accident induced leakage rate the portion of the tubes below 17.28 inches from the top of the tubesheet is zero.

Therefore, neither the normal operating leakage limit nor the accident induced leakage limits will be challenged during the next operating period.

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

Monitoring for tube slippage was completed in accordance with commitment #1 in Ref. 1. No tube slippage was discovered based on the results of the EOC 24 SG inspections.

References

1. FPL Letter L-2009-209 to the US NRC, dated September 30, 2009 "Turkey Points Unit 3 and 4, Docket Nos. 50-250 and 50-251, Response to Request for Additional Information, License Amendment Request for H*: Alternate Repair Criteria for Steam Generator Tubesheet Expansion Region".

Abbreviations

CSI - Component Support and Inspections

SG - Steam Generator

ISI - In-service Inspection

ECT - Eddy Current Testing

NEI - Nuclear Energy Institute

EPRI - Electric Power Research Institute

<u>Acronyms</u>

1.17

| H/L - | Hot Leg |
|-------|------------------------------|
| C/L - | Cold Leg |
| VOL - | Volumetric Indication |
| SVI - | Single Volumetric Indication |
| PIT - | Pit Indication |
| PLP - | Possible Loose Part |
| | |

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PLP - Possible Loose Part
WAR - Mechanical Wear
TWD - Through Wall Depth
TSH - Tubesheet Hot Leg
TEH - Tube End Hot Leg
TSC - Tubesheet Cold Leg
TEC - Tube End Cold

PTP - Preventative Tube Plug

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ADDITIONAL INFORMATION

The following information is included to assist the staff in their review of the information provided in this report. Secondary side maintenance activity information is not required by TS Section 6.9.1.8. However, this information is being provided based on NRC requests for additional information regarding previous reports submitted by FPL in accordance with this specification.

Secondary Side Maintenance Activities

Secondary Side Maintenance Activities during the EOC 24 refueling outage include the following:

- Upper Bundle Flush
- Sludge Lance
- FOSAR (Foreign Object Search and Retrieval)
- Upper Bundle and Top Down Inspection in SG 4C

Upper bundle flush and sludge lancing was completed in all three steam generators. The processes recovered 26.5 lbs of sludge from SG 4A, 24.5 lbs from SG 4B and 17.0 lbs from SG 4C. Pre and post bundle flush upper bundle and top down inspections were completed in SG 4C. These inspections showed that the steam generators remain relatively clean with no significant buildup of deposits, and that the support flow holes remain open.

Post sludge-lancing FOSAR was performed on all three steam generators. Foreign objects actively tracked are included in Table 5. Several of the objects in Table 5 are sludge scale or hardened sludge fragments, which are not considered a credible threat to tube integrity, but were investigated and are documented here for completeness. The objects in Table 5 were evaluated for potential impact on plant operation and tube integrity and were determined to be acceptable for the planned operating period. Foreign objects removed during EOC 24 refueling outage and thus not actively tracked are included in Table 6. No tube degradation was associated with any of the objects in Table 5 and 6.

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Table 5

Turkey Point Unit 4 SG Secondary Side
Foreign Objects Summary Table (Actively Tracked)
Status as of EOC 24 Refueling Outage

| Item | S/G | Description | Initial Location And Basis | TP4-23 Location & Basis (11/2006) | TP4-24 Location & Basis (4/20/08) | TP4-25 Location & Basis 11/09 |
|------|-----|---|--|---|--|---|
| 1. | 4A | 1/16' x 2" Wire | H/L R22/23 C46 | ECT PLP Object embedded In hard sludge retrieval unsuccessful | Seen by FOSAR 04/08 no retrieval attempted, fixed in location | Based on 12/09 review of video, object not seen. |
| 2. | 4A | 1/32" x 1" wire coil | H/L R12/13 C36 Previously C38 ECT PLP at C36 | ECT PLP Object embedded In hard sludge on tube retrieval unsuccessful | Located in hard sludge pile region, no retrieval attempted | Wire bristle imbedded in hard deposit seen by FOSAR 11/10/09 |
| 3. | 4A | 1/16" x 2" Weld Rod | H/L R10/11 C76/77 SSI Report shows C75/76 | Seen by FOSAR 11/06 Retrieval attempts unsuccessful | Seen by FOSAR 04/08, no retrieval attempted, fixed in location | Seen by FOSAR 11/10/09 no retrieval attempted, remains fixed in location |
| 4. | 4A | 0.4"dia by 0.13" Metal snap shaped object | C/L R 13/14 C45/46 | N/A | N/A | Seen by FOSAR 11/10/09 Wedged tightly. Retrieval Unsuccessful |
| 5. | 4A | Small hard pile | H/L R20 C36 | N/A | N/A | PLP Visual confirmed 11/09. Retrieval not possible. |
| 6. | 4A | Long rod shaped ~ 1"x 0.1" ~ 2" above tubesheet | H/L R22 C44 | N/A | N/A | PLP Visual confirmed 11/09. Retrieval not possible. |
| 7. | 4A | Adhered tube scale | H/L R34 C62 | N/A | N/A | PLP Visual confirmed 11/09. Retrieval not possible. |

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Table 5 (continued)

Turkey Point Unit 4 SG Secondary Side Foreign Objects Summary Table (Actively Tracked) Status as of EOC 24 Refueling Outage

| Item | S/G | Description | Initial Location And Basis | TP4-23 Location & Basis (11/2006) | TP4-24 Location & Basis (4/20/08) | TP4-25 Location & Basis 11/09 |
|------|-----|--|-------------------------------|---|--|---|
| 8. | 4B | ~ 0.25" irregular round Sludge Rock | H/L R13 C76 | N/A | N/A | PLP Visual confirmed 11/09. Retrieval not possible. |
| 9. | 4B | Hard sludge pile | H/L R17 C 42-58 | N/A | N/A | PLP Visual confirmed 11/09. |
| 10. | 4B | ~ 0.5 x ~ 0.25 rectangular sludge rock | H/L R23 C 58 | N/A | N/A | PLP Visual confirmed 11/09 object wedged tightly. Retrieval unsuccessful. |
| 11. | 4C | 0.1" x 0.15" x 0.5" oblong metallic object | H/L R 20/21 C 47 | ECT verified presence Based on look back | ECT Skip Cycle | PLP Visual confirmed 11/09 object wedged tightly. Retrieval unsuccessful. |
| 12. | 4C | Wedge shaped sludge rock 0.1 x 0.3 x 1.5" | H/L R24 C33 | N/A | N/A | PLP Visual confirmed 11/09 object wedged tightly. Retrieval unsuccessful. |

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Table 6

Turkey Point Unit 4 SG Secondary Side
Foreign Objects Removed during EOC 24 Refueling Outage

| Item | S/G | Description | Initial Location And Basis | TP4-25 Location & Basis 11/09 |
|------|-----|---|----------------------------|-------------------------------------|
| 1 | 4A | 3" x .03" dia. wire | H/L Annulus Around R 45 | Seen by FOSAR 11/10/09 Retrieved |
| 2 | 4A | Wire bristle | H/L Annulus Around R 45 | Seen by FOSAR 11/10/09 Retrieved |
| 3 | 4A | 0.150" by 0.010" by 3" Flex Gasket | C/L Annulus Around R 45 | Seen by FOSAR 11/10/09 Retrieved |
| 4 | 4B | ~ 4" x ~ .125" dia. Non ferretic steel rod, possibly tooling steel | H/L Annulus Around R 45 | Seen by FOSAR 11/10/09 Retrieved |
| 5 | 4B | ~1.25" x 0.0625"dia. magnetic rod shaped object | H/L R36 C51 | Seen by FOSAR 11/10/09 Retrieved |

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| SG 4A Indication Listings | | | | | | | | | |
|--|----------|--|--|--|--|--|--|--|--|
| Listing Description | Page No. | | | | | | | | |
| Tubes Plugged Listing | 2 | | | | | | | | |
| Bobbin WEAR at AVB locations 20-100%TWD | 2 | | | | | | | | |
| Bobbin WEAR at AVB locations 1-19% TWD | 2 | | | | | | | | |
| WEAR (WAR) sized by +Point [™] probe 1-100% (Broach/Baffle) | 3 | | | | | | | | |
| WEAR (WAR) sized by +Point [™] probe 1-100% (AVB) | 3 | | | | | | | | |

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Turkey Point Unit 4 (EOC-24) SG 4A Tubes Plugged Listing

11/09 - EOC24

EOC24 ECT Results for Tubes Repaired by Plugging

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATION | Ŋ | EXT | EXT | UTIL | 1 | UTIL | 2 | CAL # | LEG | PROBE |
|------|------|-------|-----------------|----------------|--------------------------|-----|-------------------|-------------------------|------------|--------------------------|-------------------|-----|---------------|-----|----------------------|----------------------------|----------------------------------|
| ==== | ==== | ===== | === | === | === | === | ======= | | === | ==== | ===== | === | ===== | === | ===== | ====== | ===== |
| 5 | 4 | 2.99 | 26 | 2 | PTP NTE | | TSC | +0.00 | | TEC TEC | | | | | 2 2 | COTD | 720UL 720UL |
| 18 | 44 | 2.63 | 38 | 2 | PTP NTE | | TSH | +0.00 | | TEC TEC | | | | | 3 3 | COLD | 720UL 720UL |
| 23 | 62 | 3.74 | 219 | 2 | NTE PTP | | TSH | +0.00 | | TEC TEC | | | | | 12 12 | COLD | 720UL 720UL |
| 33 | 78 | 0.62 | 123 0 149 | P5 P5 P1 | WAR CLP DSI PTP | | AV3 AV3 AV3 | +0.05 +0.05 -0.02 | AV3 TEH | AV3 AV3 TEC TEC | 34 0.48 LAR | | 96910 0.46 | .1 | 57 57 11 11 | HOT HOT COLD COLD | 6801P 6801P 720UL 720UL |
| | | 2.52 | 177 | P1 | DNG | | AV3 | -0.15 | TEH | TEC | | | | | 11 | COLD | 720UL |

Total Tubes : 4

Note: Tubes with No Tube Expansion (NTE) were plugged in accordance with commitments made for license amendment 226. For tubes identified with "WAR" in the "IND" column, the %TW depth is identified in the Util 1 field.

Turkey Point Unit 4 (EOC-24) SG 4A

11/09 - EOC24

Bobbin WAR at AVB's 20-100%TWD

| ROW | COL | VOLTS | DEG | CHN | IND | &TW | LOCATION | EXT | EXT | UTIL 3 | L | UTIL | 2 | CAL # | LEG | PROBE |
|------|------|-------|-----|-----|-----|-----|--------------------|-----|------|--------|----|-------|-----|-------|---------|-------|
| ==== | ==== | ===== | === | === | === | === | =========== | === | ==== | | == | ===== | === | ===== | ======= | ===== |

Total Tubes : 0 Total Records: 0 No indications reported in this range

Turkey Point Unit 4 (EOC-24) SG 4A

11/09 - EOC24

Bobbin WAR at AVB's 1-19%TWD

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATION | Ī | EXT | EXT | UTIL | 1 | UTIL | 2 | CAL # | LEG | PROBE | |
|------|------|--------|-----|-----|-----|-----|----------|-------|------|------|-------|-----|-------|-----|-------|--------|--------|--|
| ==== | ==== | ====== | === | === | === | === | ======= | | ==== | ==== | ===== | === | ===== | === | ===== | ====== | ====== | |
| 26 | 20 | 0.22 | 94 | P2 | TWD | 10 | AV1 . | +0.37 | TEH | TEC | | | | | 6 | COLD | 720UL | |
| 32 | 74 | 0.39 | 112 | P2 | TWD | 14 | AV1 | +0.08 | TEH | TEC | | | | | 12 | COLD | 720UL | |
| | | 0.38 | 26 | P2 | TWD | 13 | AV2 | +0.06 | TEH | TEC | | | | | 12 | COLD | 720UL | |
| 33 | 72 | 0.59 | 68 | P2 | TWD | 18 | AV1 | +0.08 | TEH | TEC | | | | | 12 | COLD | 720UL | |
| 35 | 67 | 0.37 | 104 | P2 | TWD | 10 | AV4 | -0.19 | TEH | TEC | | | | | 11 | COLD | 720UL | |
| 37 | 65 | 0.63 | 58 | P2 | TWD | 15 | AV2 | +0.06 | TEH | TEC | | | | | 11 | COLD | 720UL | |
| | | 0.48 | 116 | P2 | TWD | 12 | AV3 | +0.32 | TEH | TEC | | | | | 11 | COLD | 720UL | |
| | | 0.73 | 70 | P2 | TWD | 17 | AV4 | -0.06 | TEH | TEC | | | | | 11 | COLD | 720UL | |

Total Tubes : 5 Total Records: 8

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Turkey Point Unit 4 (EOC-24) SG 4A

11/09 - EOC24

 $\textbf{+Point}^{TM} \text{ WAR at Supports (Broach supports and Baffle plates)}$

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATION | I | EXT | EXT | UTIL | 1 | UTIL | 2 | CAL # | LEG | PROBE |
|------|------|--------|-----|-----|-----|-----|----------|---|-----|------|-------|-----|-------|-----|-------|--------|--------|
| ==== | ==== | ====== | === | === | === | === | ======= | ======================================= | === | ==== | ===== | === | ===== | === | ===== | ====== | ====== |
| 4 | 58 | 0.20 | 112 | P5 | WAR | | 02H | +0.47 | 02H | 02H | 12 | | 96910 | . 1 | 44 | HOT | 680PP |
| 13 | 4 | 0.35 | 90 | P5 | WAR | | BAH | -0.27 | BAH | BAH | 18 | | 96910 | . 1 | 44 | HOT | 680PP |
| 39 | 28 | 0.12 | 105 | P5 | WAR | | BAH | +0.12 | BAH | BAH | 8 | | 96910 | . 1 | 44 | TOH | 680PP |

Total Tubes : 3 Total Records: 3

Notes: The qualified EPRI sizing technique used for depth estimates is identified in the Util 2 field. For tubes identified with "WAR" in the "IND" column, the %TW depth is identified in the Util 1 field.

11/09 - EOC24

+ $Point^{TM}$ WAR at AVBs

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATION | 4 | EXT | EXT | UTIL | 1 | UTIL | 2 | CAL 4 | LEG | PROBE |
|------|------|-------|-----|-----|-----|-----|----------|---|-----|------|-------|-----|--------|-----|-------|---------|-------|
| ==== | ==== | ===== | === | === | === | === | ======= | ======================================= | === | ==== | ===== | === | ===== | === | ==== | ======= | ===== |
| 33 | 78 | 0.62 | 123 | Р5 | WAR | | AV3 | +0.05 | AV3 | AV3 | 34 | | 96910. | 1 | 57 | нот | 6801P |

Total Tubes : 1 Total Records: 1

Notes: The qualified EPRI sizing technique used for depth estimates is identified in the Util 2 field. For tubes identified with "WAR" in the "IND" column, the %TW depth is identified in the Util 1 field. Tube R33 C78 was repaired because the indication was coincident with a ding.

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| SG 4B Indication Listings | |
|--|----------|
| Listing Description | Page No. |
| Tubes Plugged Listing | 2 |
| Bobbin WEAR at AVB locations 20-100%TWD | 2 |
| Bobbin WEAR at AVB locations 1-19% TWD | 3 |
| WEAR (WAR) sized by +Point [™] probe 1-100% (Broach/Baffle) | 3 |
| WEAR (WAR) sized by +Point [™] probe 1-100% (AVB) | 4 |

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Turkey Point Unit 4 (EOC-24) SG 4B Tubes Plugged Listing

11/09 - EOC24

EOC24 ECT Results for Tubes Repaired by Plugging

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATION | 1 | | EXT | EXT | UTIL | 1. | UTIL | 2 | CAL # | LEG | PROBE |
|-----|-----|-------|-----|-----|-------------------|----------------|----------|-------|----------|-----|------------|------|-----|-------|-----|----------|------|----------------|
| 5 | 66 | 3.39 | 230 | 2 | === NTE PTP | === | TSH | +0.00 | | | TEC TEC | | === | ===== | === | 17 17 | COLD | 720UL 720UL |
| 9 | 12 | 7.38 | 199 | 2 | NTE PTP | | TSH | +0.00 | | | TEC TEC | | | | | 9 | COLD | 720UL 720UL |
| 10 | 67 | 4.27 | 217 | 2 | NTE PTP | | тѕн | +0.00 | | | TEC TEC | | | | | 17 17 | COTD | 720UL 720UL |
| 12 | 39 | 5.10 | 224 | 2 | NTE PTP | | TSH | +0.00 | | | TEC TEC | | | | | 27 27 | COLD | 720UL 720UL |
| 23 | 12 | 3.24 | 24 | 2 | NTE PTP | | TSC | +0.00 | | | TEC TEC | | | | | 1 | COLD | 720UL 720UL |
| 24 | 19 | 55.38 | 191 | 2 | PTP PID | | тен | +1.00 | TO+21.79 | | TEC TEC | HR | | · | | 2 | COLD | 720UL 720UL |
| 31 | 37 | 3.74 | 219 | 2 | NTE PTP | _ _ | TSH | +0.00 | | | TEC TEC | | | | | 8 | COLD | 720UL 720UL |

Total Tubes : 7

Note: Tube R24 C19 was preventively plugged due to the presence of a larger than optimum crevice of 1.07" (Bottom of Expansion Transition, BET). Tubes with No Tube Expansion (NTE) were plugged in accordance with commitments made for license amendment 226.

Turkey Point Unit 4 (EOC-24) SG 4B

11/09 - EOC24

Bobbin WAR at AVB's 20-100%TWD

ROW COL VOLTS DEG CHN IND %TW LOCATION EXT EXT UTIL 1 UTIL 2 CAL # LEG PROBE

Total Tubes : 0

No indications were reported in this range.

Total Records: 0

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Turkey Point Unit 4 (EOC-24) SG 4B

11/09 - EOC24

Bobbin WAR at AVB's 1-19%TWD

| ROW | COL | VOLTS | DEG (| CHN | IND | &TW | LOCATION | | EXT | EXT | UTIL | 1. | UTIL | 2 | CAL # | LEG | PROBE |
|------|------|-------|-------|-----|-------|-----|----------|------------------------|-----|------|-------|-----|------|-----|-------|--------|----------------|
| ==== | ==== | ===== | === : | === | === : | | ======= | ==== ===== ==== | === | ==== | ===== | === | ==== | === | ===== | ====== | ====== |
| 21 | 6 | 0.34 | 57 | P2 | TWI | 9 | AV3 | +0.00 | | TEH | TEC | | | | 1 | COLD | 720UL |
| 23 | 50 | 0.31 | 54 | P2 | TWI | 9 | AV3 | -0.09 | | TEH | TEC | | | | 12 | COLD | 720UL |
| 27 | 72 | 0.44 | 69 | P2 | TWI | 12 | 2 AV2 | +0.11 | | TEH | TEC | | | | 16 | COLD | 720UL |
| | | 0.40 | 102 | P2 | TWI | 11 | AV1 | +0.00 | | TEH | TEC | | | | 16 | COLD | 72 0 UL |
| 27 | 82 | 0.33 | 62 | P2 | TWI | 10 | AV4 | +0.17 | | TEH | TEC | | | | 16 | COLD | 720UL |
| 30 | 65 | 0.53 | 108 | P2 | TWI | 1.4 | l AV2 | +0.39 | | TEH | TEC | | | | 14 | COLD | 720UL |
| 30 | 73 | 0.44 | 98 | P2 | TWI | 12 | AV4 | -0.15 | | TEH | TEC | | | | 16 | COLD | 720UL |
| | | 0.35 | 122 | P2 | TWI | 10 | AV3 | +0.02 | | TEH | TEC | | | | 16 | COLD | 720UL |
| | | 0.35 | 79 | P2 | TWI | 10 |) AV2 | +0.00 | | TEH | TEC | | | | 16 | COLD | 720UL |
| 31 | 13 | 0.35 | 99 | P2 | TWI | 9 | AV4 | +0.02 | | TEH | TEC | | | | 1 | COLD | 720UL |
| 33 | 16 | 0.36 | 118 | P2 | TWI | 10 |) AV4 | +0.00 | | TEH | TEC | | | | 1 | COLD | 720UL |
| 33 | 62 | 0.36 | 121 | P2 | TWI | 11 | . AV2 | -0.30 | | TEH | TEC | | | | 14 | COLD | 720UL |
| 34 | 46 | 0.52 | 121 | P2 | TWI | 13 | B AV2 | -0.43 | | TEH | TEC | | | | 9 | COLD | 720UL |
| | | 0.40 | 30 | P2 | TWI | 11 | L AV2 | +0.64 | | TEH | TEC | | | | 9 | COLD | 720UL |
| 35 | 54 | 0.51 | 72 | P2 | TWI | 14 | l AV3 | +0.24 | | TEH | TEC | | | | 12 | COLD | 72 0U L |
| 38 | 58 | 0.40 | 117 | P2 | TWI | 11 | L AV3 | +0.32 | | TEH | TEC | | | | 14 | COLD | 720UL |

Total Tubes : 12 Total Records: 16

Turkey Point Unit 4 (EOC-24) SG 4B

11/09 - EOC24

+PointTM WAR at Supports (Broached support and Baffle Plates)

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATION | ı | EXT | EXT | UTIL | 1 | UTIL | 2 | CAL # | LEG | PROBE |
|------|------|-------|-----|-----|-----|-----|----------|-------|-----|------|-------|-----|-------|-----|-------|--------|--------|
| ==== | ==== | ===== | === | === | === | === | ======= | | === | ==== | ===== | === | ===== | === | ===== | ====== | ====== |
| 5 | 12 | 0.31 | 65 | P5 | WAR | | 04H | +0.50 | 04H | 04H | 10 | | 96910 | . 1 | 53 | HOT | 680PP |
| 31 | 60 | 0.46 | 125 | P5 | WAR | | 02H | -0.27 | 02H | 02H | 16 | | 96910 | . 1 | 53 | HOT | 680PP |
| 35 | 70 | 0.26 | 103 | P5 | WAR | | BAH | -0.36 | TSH | BAH | 10 | | 96910 | . 1 | 53 | HOT | 680PP |
| 40 | 26 | 0.14 | 96 | P5 | WAR | | BAH | +0.02 | TSH | 01H | 6 | | 96910 | . 1 | 53 | HOT | 680PP |
| | | 0.20 | 88 | P5 | WAR | | BAH | -0.31 | TSH | 01H | 8 | | 96910 | .1 | 53 | HOT | 680PP |
| 44 | 38 | 0.32 | 99 | P5 | WAR | | 04C | +0.58 | 04C | 04C | 14 | | 96910 | . 1 | 58 | COLD | 680PP |

Total Tubes : 5 Total Records: 6

Note: The qualified EPRI sizing technique used for depth estimates is identified in the Util 2 field. For tubes identified with "WAR" in the "IND" column, the TW depth is identified in the Util 1 field.

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Turkey Point Unit 4 (EOC-24) SG 4B

11/09 - EOC24

 $+Point^{TM}$ WAR at AVBs

ROW COL VOLTS DEG CHN IND %TW LOCATION EXT EXT UTIL 1 UTIL 2 CAL # LEG PROBE

Total Tubes : 0 Total Records: 0 No wear indications were reported at the Anti-vibration Bars with $+Point^{TM}$

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| SG 4C Indication Listings | | | | | | | | | | | |
|--|----------|--|--|--|--|--|--|--|--|--|--|
| Listing Description | Page No. | | | | | | | | | | |
| Tubes Plugged Listing | 2 | | | | | | | | | | |
| Bobbin WEAR at AVB locations 20-100%TWD | 22 | | | | | | | | | | |
| Bobbin WEAR at AVB locations 1-19% TWD | 2 | | | | | | | | | | |
| WEAR (WAR) sized by +Point [™] probe 1-100% (Broach/Baffle) | 3 | | | | | | | | | | |
| WEAR (WAR) sized by +Point [™] probe 1-100% (AVB) | 3 | | | | | | | | | | |

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Turkey Point Unit 4 (EOC-24) SG 4C Tubes Plugged Listing

No tubes were plugged in SG 4C

Turkey Point Unit 4 (EOC-24) SG 4C

11/09 - EOC24

Bobbin WAR at AVB's 20-100%TWD

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATIO | N | | EXT | EXT | UTIL. | 1 | UTIL | 2 | CAL | # | LEG | PROBE |
|------|------|-------|-----|-----|-----|-----|---------|-------|----------|-----|------|-------|-----|-------|-----|------|---|---------|-------|
| ==== | ==== | ===== | === | === | === | === | ======= | ===== | ======== | === | ==== | ===== | === | ===== | === | ==== | = | ======= | ===== |
| 32 | 70 | 0.70 | 112 | P2 | TWD | 22 | AV1 | +0.28 | | TEH | TEC | | | | | 16 | | COLD | 720UL |
| 35 | 31 | 0.77 | 103 | P2 | TWD | 22 | AV2 | +0.32 | | TEH | TEC | | | | | 3 | | COLD | 720UL |

Total Tubes : 2 Total Records: 2

Turkey Point Unit 4 (EOC-24) SG 4C

11/09 - EOC24

Bobbin WAR at AVB's 1-19%TWD

| ROW | COL | VOLTS | DEG | CHN | IND | &TW | LOCATION | 1 | | EXT | EXT | UTIL | 1. | UTIL | 2 | CAL | # | LEG | PROBE |
|------|------|-------|-----|-----|-----|-----|----------|-----|------|-----|------|-------|-----|-------|-----|------|---|--------|-------------------|
| ==== | ==== | ===== | === | === | === | === | ======= | === | | === | ==== | ===== | === | ===== | === | ==== | = | ====== | ====== |
| 12 | 4 | 0.24 | 62 | P2 | TWD | 10 | AV4 | +0. | .13 | TEH | TEC | | | | | 1 | | COLD | 720UL |
| 13 | 4 | 0.34 | 130 | P2 | TWD | 15 | AV4 | +0. | . 17 | TEH | TEC | | | | | 2 | | COLD | 720UL |
| 22 | 7 | 0.30 | 140 | P2 | TWD | 12 | AV2 | +0. | . 02 | TEH | TEC | | | | | 1 | | COLD | 720UL |
| 22 | 82 | 0.22 | 107 | P2 | TWD | 9 | AV1 | +0. | . 30 | TEH | TEC | | | | | 16 | | COLD | 720UL |
| 22 | 83 | 0.25 | 93 | P2 | TWD | 9 | AV4 | -0. | . 08 | TEH | TEC | | | | | 18 | | COLD | 720UL |
| 24 | 12 | 0.31 | 76 | P2 | TWD | 14 | AV4 | +0. | . 00 | TEH | TEC | | | | | 2 | | COLD | 720UL |
| 26 | 82 | 0.31 | 20 | P2 | TWD | 12 | AV1 | +0. | . 15 | TEH | TEC | | | | | 16 | | COLD | 720UL |
| 27 | 80 | 0.30 | 98 | P2 | TWD | 12 | AV3 | -0. | . 11 | TEH | TEC | | | | | 16 | | COLD | 720UL |
| 27 | 81 | 0.28 | 107 | P2 | TWD | 11 | AV1 | +0. | . 17 | TEH | TEC | | | | | 16 | | COLD | 720UL |
| | | 0.31 | 94 | P2 | TWD | 12 | AV4 | +0. | . 00 | TEH | TEC | | | | | 16 | | COLD | 720UL |
| 30 | 15 | 0.29 | 132 | P2 | TWD | 13 | AV1 | +0. | . 00 | TEH | TEC | | | | | 2 | | COLD | 720UL |
| 30 | 75 | 0.25 | 103 | P2 | TWD | 12 | AV2 | +0. | . 41 | TEH | TEC | | | | | 15 | | COLD | 720UL |
| 31 | 80 | 0.29 | 17 | P2 | TWD | 11 | AV3 | +0. | . 17 | TEH | TEC | | | | | 14 | | COLD | 720UL |
| 32 | 16 | 0.47 | 46 | P2 | TWD | 19 | AV2 | +0. | . 09 | TEH | TEC | | | | | 2 | | COLD | 720UL |
| 32 | 70 | 0.40 | 134 | P2 | TWD | 14 | AV3 | -0. | . 06 | TEH | TEC | | | | | 16 | | COLD | $720 \mathrm{UL}$ |
| 33 | 76 | 0.28 | 76 | P2 | TWD | 13 | AV1 | +0. | .17 | TEH | TEC | | | | | 15 | | COLD | 720UL |
| 34 | 17 | 0.31 | 59 | P2 | TWD | 11 | AV1 | -0. | . 08 | TEH | TEC | | | | | 3 | | COLD | 720UL |
| 34 | 53 | 0.25 | 148 | P2 | TWD | 11 | AV1 | -0. | . 17 | TEH | TEC | | | | | 13 | | COLD | 720UL |
| 34 | 75 | 0.31 | 105 | P2 | TWD | 14 | AV4 | +0. | . 00 | TEH | TEC | | | | | 15 | | COLD | 720UL |
| 36 | 74 | 0.20 | 21 | P2 | TWD | 8 | AV3 | -0. | . 02 | TEH | TEC | | | | | 14 | | COLD | 720UL |
| 37 | 71 | 0.19 | 120 | P2 | TWD | 8 | AV1 | +0. | . 13 | TEH | TEC | | | | | 16 | | COLD | 720UL |
| 37 | .73 | 0.23 | 90 | P2 | TWD | 9 | AV3 | -0. | . 30 | TEH | TEC | | | | | 14 | | COLD | 720UL |
| 39 | 69 | 0.24 | 49 | P2 | TWD | 10 | AV2 | -0. | .11 | TEH | TEC | | | | | 16 | | COLD | 720UL |
| 40 | 68 | 0.14 | 51 | P2 | TWD | 6 | AV2 | -0. | . 26 | TEH | TEC | | | | | 16 | | COLD | 720UL |

Total Tubes : 23 Total Records: 24

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Turkey Point Unit 4 (EOC-24) SG 4C

11/09 - EOC24

+PointTM WAR at Supports (Broach support and Baffle Plate)

| ROW | COL | VOLTS | DEG | CHN | IND | %TW | LOCATION | | EXT | EXT | UTIL | 1. | UTIL | 2 | CAL # | LEG | PROBE |
|------|------|-------|-----|-----|-----|-----|----------|-------|-----|------|--------|-----|--------|-----|-------|--------|--------|
| ==== | ==== | ===== | === | === | === | === | ======== | | === | ==== | ====== | === | ===== | === | ===== | ====== | ====== |
| 35 | 75 | 0.23 | 99 | P5 | WA | R | 06H | +0.23 | 06H | 06H | 10 | | 96910. | . 1 | 55 | HOT | 680PP |

Total Tubes : 1 Total Records: 1

Note: The qualified EPRI sizing technique used for depth estimates is identified in the Util 2 field. For tubes identified with "WAR" in the "IND" column, the %TW depth is identified in the Util 1 field.

Turkey Point Unit 4 (EOC-24) SG 4C

11/09 - EOC24

 $+Point^{TM}$ WAR at AVBs

| ROW | COL | VOLTS | DEG | CHN | IND | &TW | LOCATION | EXT | EXT | UTIL | Τ | UTIL | 2 | CAL # | LEG | PROBE |
|------|------|--------|-----|-----|-----|-----|---|-----|------|-------|-----|-------|---|-------|--------|--------|
| ==== | ==== | ====== | === | === | === | === | ======================================= | === | ==== | ===== | === | ===== | | ===== | ====== | ====== |

Total Tubes : 0 No wear indications were reported at the Anti-vibration Bars with $+Point^{TM}$ Total Records: 0