



JAN 10 2008

L-2008-003  
10 CFR 50.55a

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

Re: Turkey Point Unit 3  
Docket No. 50-250  
Inservice Inspection Report

Attached are the Executive Summary and the following reports for Turkey Point Unit 3 in accordance with the provisions of the ASME Code, Section XI:

- Form NIS-1 Owners' Report for Inservice Inspections
- Form NIS-2 Owners' Report for Repairs or Replacements
- Summary of Inservice Inspection Examinations
- Summary of Inservice Inspection IWE Examinations
- Summary of Visual Examinations and Functional Testing of Snubbers
- Summary of System Pressure Testing
- Summary of Inservice Inspection IWL Examinations

Should there be any questions concerning this report, please contact Paul Infanger at 305-246-6632.

Very truly yours,

A handwritten signature in black ink, appearing to read "W. Jefferson, Jr.", is written over the typed name.

William Jefferson, Jr.  
Vice President  
Turkey Point Nuclear Plant

SM

Attachments

cc: Regional Administrator, USNRC, Region II  
Senior Resident Inspector, USNRC, Turkey Point Nuclear Plant

AC47  
NRB

TURKEY POINT PLANT  
UNIT 3

2007 REFUELING OUTAGE INSERVICE INSPECTION REPORT

Executive Summary

This Inservice Inspection report is for the 2007 Turkey Point Unit 3 refueling outage. This was the first outage of the second period of the fourth 10-year interval.

Inservice examinations consisted of augmented Feedwater ultrasonic examinations on the A, B and C Steam Generator Feedwater nozzles, adjacent piping, and fittings. Also examined were selected components from the Reactor Pressure Vessel, Reactor Coolant System, Chemical & Volume Control System, Residual Heat Removal System, Safety Injection System, Main Feedwater System, Main Steam System, "C" Reactor Coolant Pump, Steam Generator "A" & "C" Primary Side, Steam Generator "B" Secondary Side, Component Cooling Water System, Auxiliary Feedwater System and Intake Cooling Water System. The attached Inservice Inspection summary tables detail the examinations performed during the outage. The examinations credited to the Fourth Interval are detailed in Attachment 1 and Table 1. This outage completed the first period of the fourth 10-year interval.

The NIS-2 forms document the repair and replacement activities that have taken place since the previous Unit 3 submittal, and those performed during the 2007 refueling outage.

IWE examinations were performed on the containment liner this outage. This outage completed the first 10-year interval work. Preservice examinations were performed in areas of coating repairs to the containment metallic liner and moisture barrier seal. Details can be found in Attachment 2 for examination scope and results.

Snubber visual examinations and functional tests were conducted in accordance with ASME Section XI and Turkey Point Plant Technical Specifications. Details of examination scope and results can be found in Attachment 3, *Summary of Visual Examinations and Functional Testing of Snubbers*.

System pressure testing was conducted in accordance with the requirements of ASME Section XI and Turkey Point Technical Specifications. Details of test boundaries and results can be found in Attachment 4, *Summary of System Pressure Testing*.

The 35<sup>th</sup> year Containment IWL examination was performed between 1/8/2007 to 3/27/2007. Details can be found in Attachment 5 for examination scope and results.

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

1. **Owner:** Florida Power and Light Company  
700 Universe Blvd.  
Juno Beach, Florida 33408
2. **Plant:** Florida Power & Light Company  
Turkey Point Nuclear Power Plant  
9760 SW 344 Street  
Florida City, Florida 33035
3. **Plant Unit:** 3
4. **Owner Certificate of Authorization (if required):** N/A
5. **Commercial Service Date:** December 14, 1972
6. **National Board Number for Unit:** N/A
7. **Components Inspected:**

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Pressure Vessel	Babcock and Wilcox	610-0116	N/A	N-160
Pressurizer	Westinghouse	3T200	N/A	N-720
Regenerative Heat Exchanger	Westinghouse	3E200	N/A	N/A
Reactor Coolant System	Bechtel	N/A	N/A	N/A
Reactor Coolant Pump C	Westinghouse	3-618J713 2S76P499	N/A	N/A
Safety Injection System	Bechtel	N/A	N/A	N/A
Residual Heat Removal System	Bechtel	N/A	N/A	N/A
Steam Generator A, B and C	Westinghouse	16A-5885-1, 2 & 3 FSGT-3001, 3002 & 3003	N/A	N/A
Main Steam System	Bechtel	N/A	N/A	N/A
Main Feedwater System	Bechtel	N/A	N/A	N/A
Auxiliary Feedwater	Bechtel	N/A	N/A	N/A
Chemical and Volume Control	Bechtel	N/A	N/A	N/A
Component Cooling Water	Bechtel	N/A	N/A	N/A
Intake Cooling Water	Bechtel	N/A	N/A	N/A

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Owner Certificate of Authorization (if required) N/A  
Commercial Service Date : December 14, 1972  
National Board Number for Unit: N/A

8. **Examination Dates:** from 4/11/2006 to 10/15/2007
9. **Inspection Period Identification:** Second Period, from 02/22/2007 to 02/21/2011
10. **Inspection Interval Identification:** Fourth Interval, from 02/22/2004 to 02/21/2014
11. **Applicable Edition of Section XI:** 1998 Edition, 2000 Addenda, (IWE/IWL) 1992/1992 Addenda
12. **Date/Revision of Inspection Plan:** September 22, 2006 Rev. 1.
13. **Abstract of examinations and test. Include a list of examinations and tests and a statement concerning status of work required for the inspection plan.**

Inservice Examination of selected Class 1, 2 and 3 components and piping systems of Florida Power and Light's (FPL) Turkey Point Unit 3 were performed during the 2006 Refueling Outage. This cycle began on 4/11/2006 and ended 10/15/2007. This was the first outage of the second period of the fourth 10-year interval.

The components and piping systems examined were selected in accordance with the Fourth Ten-Year Inservice Inspection Program. The inspection plans include an alternative to the examination and Pressure Test requirements of Table IWB-2500-1, Category B-F and B-J piping welds, as defined in American Society of Mechanical Engineers (ASME) Section XI 1998 Edition with Addenda through 2000. This alternative implements a risk informed inspection program for the examination selection for the Class 1, Category B-F and B-J piping welds in lieu of the requirements of Table IWB-2500-1. The alternative Plan allows examination selection for Unit 3 to be in accordance with "Florida Power & Light Turkey Point Unit 3 Risk-Informed Inservice Inspection Program."

Manual ultrasonic, visual, magnetic particle and liquid penetrant non-destructive methods were used to examine components, piping, and their supports. FPL personnel supported by Washington Group International personnel performed the examinations. Details can be found in Attachment 1 and Table 1, *Turkey Point Unit 3 Inservice Inspection*, for examination scope, results, and percentages completed.

Snubber visual examinations and functional testing were conducted in accordance with ASME Section XI and Turkey Point Technical Specifications. Basic-PSA, Inc supplied examination and testing services. Details of examination scope and results can be found in Attachment 3 *Summary of Visual Examinations and Functional Testing of Snubbers*.

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Commercial Service Date : December 14, 1972  
National Board Number for Unit: N/A

FPL visual examiners conducted system pressure testing in accordance with the requirements of ASME Section XI and Turkey Point Technical Specifications. Details of test boundaries and results can be found in Attachment 4, *Summary of System Pressure Testing*.

IWE examinations were performed on the containment liner, moisture barrier seal and penetrations this outage. This was the last outage of the third period of the First 10-year interval. Preservice examinations were performed in areas of coating repairs to the containment metallic liner and moisture barrier seal. Details of examination scope and results can be found in Attachment 2.

The 35<sup>th</sup> year Containment IWL examination was performed between 1/8/2007 to 3/27/2007. Details can be found in Attachment 5 for examination scope and results.

#### **14. Abstract of Results of Examinations and Tests.**

Refer to Attachment 1 for list of components and examination results during the Fall 2007 outage.

#### **15. Abstract of Corrective Measures**

Tendon 35H39 Buttress #3 was observed to have approximately 4 ounces of water exiting from the grease cap bolt and 1 ounce in the grease cap. Engineering disposition: It has been determined that adequate grease coverage had been present and the entire anchorage components corrosion level criterion had been met. It is concluded that the detected condition had not created any adverse effect on the tendon. There was no ASME Section XI failure or reject. Reference CR 2007-2213.

Tendon 13H31 Buttress #3 was observed to have button heads missing from each end of the tendon. Engineering disposition: After prestress calculations, the actual predicted force at the end of containment life with 88 wires instead of 90 wires is 22% higher than the minimum required tendon force. This tendon is deemed acceptable. There was no ASME Section XI failure or reject. Reference CR 2007-2744.

Tendon 51H35 Buttress #1 & #5 was observed to have a misalignment on the shim stack on both ends of the tendon. Engineering disposition: This as-found condition does not deter the tendon from performing its design intent. For Buttress #1, the lift-off verification was performed and exceeded the acceptance criteria. The misalignment was corrected after the lift-off verification and the shim set was left in the proper alignment. For Buttress #5, during the physical inspection, the shim set moved back in alignment with no more overlapping. The lift-off verification was performed and met the acceptance criteria. There was no ASME Section XI failure or reject. Reference CR 2007-4660.

Buttress #3 was observed to have three spalls on the face of buttress with exposed rebar. These areas of spalls are located in non-structural concrete cover. Engineering disposition: The

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National Board Number for Unit: N/A

concrete cover does not perform a structural function. Its purpose is to protect the rebar from exposure to the outside environment elements. The corrosion observed on the exposed rebar was superficial without adverse effect on the design function of the rebar. The surrounding concrete was tapped by a hammer and no hollow sounds observed. As a corrective measure, the three subject areas were cleaned and coated with a protective coating. The spalled grout is non-structural, the rust on the exposed rebar is minor and the surrounding concrete is sound. Reference CR 2007-6493.

Tendon 12V06 was observed to exceeds the force limitations of 70% G. U. T. S. (Guaranteed Ultimate Tensile Strength.). Engineering disposition: This tendon was scheduled for detensioning, wire removal and retensioning. With 89 effective wires, the contractor was directed to restore the tendon as close as possible to 70% G. U. T. S. There was no ASME Section XI failure or reject. Reference CR 2007-6493.

Tendon 35H50 Buttress #3 and 51H30 Buttress #1 was observed to have approximately 1 ounces of water exiting from the grease cap for tendon 35H50 and 6 ounces of water exiting from the grease cap fro tendon 51H30. Engineering disposition: It has been determined that adequate grease coverage had been present and the entire anchorage components corrosion level criterion had been met. It is concluded that the detected condition had not created any adverse effect on the tendon. There was no ASME Section XI failure or reject. Reference CR 2007-7005.

Tendon 51H02 Buttress 1 was observed to have pitting in excess of 1/8" deep on the tendon cap. Engineering disposition: The surface was cleaned and coated and the existing tendon cap was replaced. There was no ASME Section XI failure or reject. Reference CR 2007-7394.

Tendon 64H62 Buttress #6 was observed to have an active grease leak and less than 1 ounces of water exiting from the grease cap. Engineering disposition: A new gasket was installed and water removed. The entire anchorage components corrosion level criterion had been met. It is concluded that the detected condition had not created any adverse effect on the tendon. There was no ASME Section XI failure or reject. Reference CR 2007-8071.

Tendon 61V25 exceeded 10% of the Net Duct Volume for the amount of grease replaced. Engineering disposition: A new gasket was installed and grease replaced. There was no ASME Section XI failure or reject. Reference CR 2007-8095.

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 Commercial Service Date: December 14, 1972  
 National Board Number for Unit: N/A

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. N/A Expiration Date N/A

Date: 12/4/07 Signed: [Signature] For R.D.G.L By MGR - CST

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Florida, and employed by The Hartford Steam Boiler Inspection and Insurance Company of Connecticut of Hartford, CT have inspected the components described in this Owner's Report during the period during the period 4/11/2006 to 10/15/2007, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] FL 477 (A, C, N, I)  
 Inspector's Signature National Board, State,  
 Province, and Endorsements

Date: 12-6-07

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

**Abstract of Examinations and Tests  
Total Population and Percentages  
4<sup>th</sup> Interval – 2nd Period**

**Table 1**

**Table 1**  
**Turkey Point Unit 3**  
**FOURTH INSPECTION INTERVAL – SECOND PERIOD – FIRST OUTAGE**  
**ABSTRACT OF EXAMINATION AND TESTS**

Examination Category/Item	Total Examinations Required for the Interval	Total Examinations Credited for the Period	Total Examinations Credited (%) for the period	Total Examinations Credited (%) to Date for the Interval	Remarks
B-A	5	0	0%	0%	
B1.11	3				Deferral Permissible
B1.21	1				Deferral Permissible
B1.30	1				Code Case N-623 Applied, Deferral Permissible
B-B	5	0	0%	20%	
B2.11	2				
B2.12	2				
B2.40	1				
B-D	24	2	40%	30%	
B3.90	6				Deferral Permissible
B3.100	6				Deferral Permissible
B3.120	6				
B3.140	6				
B-F	RR will be being submitted to implement a risk informed program. The B-F examination category items are included in the Category R-A population.				
B-G-1	18	0	0%	0%	Total includes Item B6.190, B6.190, B6.200 (only required if disassembled)
B6.10	3				Deferral Permissible
B6.30	3				Deferral Permissible
B6.40	3				Deferral Permissible
B6.50	6				Deferral Permissible
B6.180	1				Deferral Permissible
B6.190	1				Deferral Permissible
B6.200	1				Deferral Permissible
B-G-2	19	2	50%	58%	
B7.20	1				
B7.30	6				
B7.50	9				

Examination Category/Item	Total Examinations Required for the Interval	Total Examinations Credited for the Period	Total Examinations Credited (%) for the period	Total Examinations Credited (%) to Date for the Interval	Remarks
B7.70	3				
B-J	RR will be submitted to implement a risk informed program. The B-F examination category items are included in the Category R-A population.				
B-K	6	0	0%	16.6%	
B10.10	2				Baseline performed on 6 new welds in the 1 <sup>st</sup> period.
B10.20	3				
B10.30	1				
B-L-1	3	3	100%	100%	
B12.10	3				Deferral Permissible
B-L-2	1	0	0%	0%	
B12.20	1				Examination required only when disassembled
B-M-2	3	1	33.3%	33.3%	
B12.50	3				1 valve in each group requires examination when disassembled for maintenance. Deferral Permissible
B-N-1	7	0	0%	33.3%	Each item (7) must be examined each period
B13.10	7				
B-N-2	1	0	0%	0%	
B13.60	1				Deferral Permissible
B-N-3	27	0	0%	0%	
B13.70	27				Deferral Permissible
B-O	3	3	100%	100%	Baseline performed on 24 new welds in the 1 <sup>st</sup> period. 25% will be performed in the next two periods. Deferral Permissible.
B14.10	3	0	0%	0%	
B-P	System leakage tests are performed each outage (IWB-5220) in accordance with plant procedures.				
B-Q	Steam Generator tubing is examined in accordance with Plant Technical Specifications.				

Examination Category/Item	Total Examinations Required for the Interval	Total Examinations Credited for the Period	Total Examinations Credited (%) for the period	Total Examinations Credited (%) to Date for the Interval	Remarks
C-A	7	0	0%	42.8%	
C1.10	4				
C1.20	2				
C1.30	1				
C-B	8	0	0%	25%	C-B total does not include C2.33 items that are required each period
C2.21	2				
C2.22	2				
C2.31	4				
C2.33	6	0	0%	33.3%	VT examinations required each period
C-C	10	1	33.3%	36.3%	
C3.10	1				
C3.20	9				
C-F-1	49	9	60%	43%	
C5.11	26				
C5.21	12				
C5.30	10				
C5.41	1				
C-F-2	28	3	30%	46.4%	Less than 28 welds would be required if 7.5% criteria is followed, FPL raised the total count to 28 per note 2.
C5.51	25				
C5.81	3				
C-H	System pressure tests are performed in accordance with plant procedures. Quantification of the number of tests is not practical.				
D-A	15	4	66.6%	53.3%	
D1.10	5				
D1.20	10				
D-B	System pressure tests are performed in accordance with plant procedures. Quantification of the number of tests is not practical.				

Examination Category/Item	Total Examinations Required for the Interval	Total Examinations Credited for the Period	Total Examinations Credited (%) for the period	Total Examinations Credited (%) to Date for the Interval	Remarks
(IWE) E-A	246	82	100%	100%	100% General Exam required each period. This completes the 1 <sup>st</sup> Interval for IWE.
(IWE) E-D	6	2	100%	100%	RR 26, This completes the 1 <sup>st</sup> Interval for IWE. Examination of 8 of the total items required if made accessible. Deferral permissible.
(IWE) E-G	11	4	100%	100%	RR 22, This completes the 1 <sup>st</sup> Interval for IWE, deferral permissible.
F-A	120	20	86.9%	48.3%	
F1.10	39				
F1.20	33				
F1.30	30				
F1.40	18				
R-A	34	5	41.6%	44.1%	R-A total does not include item R1.12. RR3 has been submitted to implement a risk informed inspection program for the Fourth Interval. The selections in program are based on the Risk Informed Program approval on November 30, 2000 for Third Interval.
R1.11	34				
R1.12	48 each outage				Visual examination is performed each outage

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

**NIS-2**

### **Abstract**

The attached NIS-2 reports detail the repair/replacement of Class 1, 2 and 3 piping and components for Florida Power and Light Company, Turkey Point Unit 3. These repairs or replacements were performed prior to and during the Fall 2007 refueling outage, between the dates of 4/11/2006 and October 15, 2007.

Piping and components were inspected/tested in accordance with Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, "Rules for Inservice Inspection of Nuclear Power Components," 1998 Edition up to and including the 2000 Addenda.

## NIS-2 LOG

Report No.	Report Date	Work Order Number	ANI Certification
07-001-3	9/13/2007	36016589-01	10/11/2007
07-002-3	9/13/2007	36003412-01	11/8/2007
07-003-3	9/13/2007	35018481-01	10/25/2007
07-004-3	9/13/2007	35021139-01	11/1/2007
07-005-3	9/13/2007	35031101-01	10/25/2007
07-006-3	9/14/2007	35029354-03	10/25/2007
07-007-3	2/23/2006	35029354-01	11/1/2007
07-008-3	9/14/2007	37008476-01	10/11/2007
07-009-3	9/15/2007	36025372-01	11/1/2007
07-010-3	10/4/2007	36017135-01	10/25/2007
07-011-3	10/4/2007	35021137-01	11/12007
07-012-3	10/4/2007	35019793-01	10/11/2007
07-013-3	10/2/2007	36006137-01	10/25/2007
07-014-3	10/2/2007	35019796-01	10/11/2007
07-015-3	10/2/2007	36005940-01	10/11/2007
07-016-3	10/2/2007	3708859-01	10/11/2007
07-017-3	10/2/2007	35019795-01	11/1/2007
07-018-3	10/4/2007	36026343-01	10/11/2007
07-019-3	10/5/2007	36026342-01	10/11/2007
07-020-3	10/6/2007	36019819-01	10/11/2007
07-021-3	10/5/2007	36019711-01	11/1/2007
07-022-3	10/6/2007	36007787-01	10/25/2007
07-023-3	10/5/2007	37001892-01	10/25/2007

<b>Report No.</b>	<b>Report Date</b>	<b>Work Order Number</b>	<b>ANI Certification</b>
07-024-3	10/5/2007	37001883-01	10/25/2007
07-025-3	10/5/2007	37020259-01	10/25/2007
07-026-3	10/15/2007	36019509-01	11/1/2007
07-027-3	10/15/2007	36019516-01	11/1/2007
07-028-3	10/15/2007	36019525-01	11/1/2007
07-029-3	10/15/2007	36018462-01	11/1/2007
07-030-3	10/15/2007	34020152-01	11/1/2007
07-031-3	10/15/2007	36018463-01	11/1/2007
07-032-3	10/15/2007	36014347-01	11/1/2007
07-033-3	10/15/2007	36011234-01	11/1/2007
07-034-3	10/25/2007	37019007-03	11/8/2007
07-035-3	10/25/2007	37014438-01	11/8/2007
07-036-3	10/25/2007	36019872-01	11/20/2007
07-037-3	10/29/2007	35010386-01	11/8/2007
07-038-3	10/29/2007	33022952-01	11/8/2007
07-039-3	10/29/2007	36009235-02	11/8/2007
07-040-3	10/25/2007	37020609-01	11/8/2007
07-041-3	10/29/2007	35010379-01	11/8/2007
07-042-3	11/14/2007	35030563-01	11/20/2007

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 9/13/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name WO#: 36016589-01 CR#: N/A  
9760 SW 344 Street Florida City, FL 33035 Repair Organization, P.O. No, Job No., etc.  
Address

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Component Cooling Water System #: 30 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3A CCW Pump	N/A	N/A	N/A	3P211A	N/A	Corrected	N

7. Description of Work:  
 Replace pump inlet flange bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 3-28-07 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FC 477 (A, C, N, E)  
 National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 9/13/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 36003412-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Component Cooling Water System #: 30 Quality Group c

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3A ICW Pump discharge check valve	N/A	D-5705	N/A	3-50-311	N/A	Installed	N
3A ICW Discharge Check Valve	N/A	D-3577	N/A	3-50-311	N/A	Removed	N

7. Description of Work:  
Replace Valve

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 17 psig Test Temperature 80 deg F

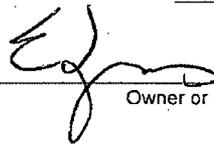
9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed  OSE mgr Date 11/8/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 12-18-06 to 11-8-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

 \_\_\_\_\_  
 Inspector's Signature

Commissions FL 477 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 11-8-07 \_\_\_\_\_

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 9/13/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 35018481-01 CR#: N/A  
Repair Organization, P.O. No., Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Component Cooling Water System #: 30 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3C ICW discharge check valve	N/A	D-3575	N/A	3-50-331	N/A	Removed	N
3C ICW Discharge Check Valve	N/A	D-4189	N/A	3-50-331	N/A	Installed	N

7. Description of Work:

Replace 3C ICW discharge check valve

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other N/A Pressure 14 psig Test Temperature 87 deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed E. J. [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 6-14-06 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 477 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 9/13/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035 WO#: 35021139-01 CR#: N/A  
Address Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: CVCS Boron Addition and Recycle System #: 46 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Boric Acid Storage Tank	N/A	N/A	N/A	T205A	N/A	Corrected	N

7. Description of Work:  
 Replace handhole flange bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed EJ [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 12-2-05 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 477 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 9/13/2007

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3

WO#: 35031101-01 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A

Authorization Number N/A

Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3B CCW Heat Exchanger	N/A	N/A	N/A	3E207B	N/A	Corrected	N

7. Description of Work:

Replace two studs and two nuts on channel head

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A

Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed *Ej* OSE mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 6-15-06 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Robert A. Blawie*  
 Inspector's Signature

Commissions FL477(A,C,N,I)  
 National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 9/14/2007

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3

WO#: 35029354-03 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A

Authorization Number N/A

Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3B ICW Pump Discharge elbow	N/A	N/A	N/A	Pipe Flange	N/A	Corrected	N

7. Description of Work:  
 Replace threaded on-flange

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other N/A Pressure 19 psig Test Temperature 85.7 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed *Ej* OSE MGR Date 10/10/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 5-19-06 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Paul J. Blawie*  
 Inspector's Signature

Commissions FLATI(A,N,C,F)  
 National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 2/23/2006

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
 WO#: 35029354-01 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3B ICW Pump	N/A	IST-1	N/A	3P9B	N/A	Installed	N
Check Valve	N/A	D-4187	N/A	3-50-321	N/A	Installed	N

7. Description of Work:  
 Replace pump, expansion joint and check valve

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other N/A Pressure 19 psig Test Temperature 85.7 deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ej [Signature] OSE Mgr Date 10/10/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 3-9-06 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477 (A, C, N, I, Z)  
 National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 9/14/2007  
 Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
 WO#: 37008476-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Basket strainer for A CCW	N/A	N/A	N/A	BS-3-1402	N/A	Corrected	N

7. Description of Work:  
Replace cover nut and stud

8. Tests Conducted: Hydrostatic: N/A Pneumatic: N/A Nominal Operating Pressure: N/A  
 Other: N/A Pressure: N/A psig Test Temperature: N/A deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE mgr Date 10/10/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 4-17-07 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 9/15/2007  
 Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
 WO#: 36025372-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Component Cooling Water System #: 30 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3C CCw Heat Exchanger	N/A	N/A	N/A	3E207C	N/A	Corrected	N

7. Description of Work:

Modify bolt hole from threaded to thru stud

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed *Ej* OSE Mgr Date 10/2/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 11-17-06 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Carl A. Blawie*  
 Inspector's Signature

Commissions FL 477(A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 11-01-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/4/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name WO#: 36017135-01 CR#: N/A  
9760 SW 344 Street Florida City, FL 33035 Repair Organization, P.O. No, Job No., etc.  
Address

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Component Cooling Water System #: 30 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3A CCW Heat Exchanger	N/A	N/A	N/A	3E207A	N/A	Corrected	N

7. Description of Work:

Replace Two channel head bolts

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A pslg Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed *Ejms* OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-27-06 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Paul J. Blawie*  
 Inspector's Signature

Commissions FL 477 (A.S.N.I.)  
 National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/4/2007  
Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
WO#: 35021137-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
Authorization Number N/A  
Expiration Date N/A

4. Identification of System: CVCS Boron Addition and Recycle System #: 46 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Boric Acid Storage Tank C	N/A	N/A	N/A	T205C	N/A	Corrected	N

7. Description of Work:  
Replace bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 7-10-06 to 11-1-07 11-1-07 csc 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL477(A,C,N,F)  
 National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/4/2007  
 Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
 WO#: 35019793-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Inlet Valve to Basket Strainer B	N/A	733133D D-1-2	N/A	3-50-344	N/A	Installed	N
Inlet Valve	N/A	None	N/A	3-50-344	N/A	Removed	N

7. Description of Work:  
Replace Valve and bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic: N/A Nominal Operating Pressure X  
 Other N/A Pressure 41 psig Test Temperature 78.8 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ej OSF Mgr Date 10/10/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 12-2-05 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/2/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 36006137-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Residual Heat Removal System #: 50 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Iso Valve at RHR Heat Exchanger A discharge	N/A	N/A	N/A	3-759A	N/A	Corrected	N

7. Description of Work:  
 Replace bolting material

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 10/2/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 6-4-07 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 471 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name.  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/2/2007  
 Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
 WO#: 35019796-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Outlet Valve to Basket Strainer	N/A	733133D D-1-3	N/A	3-50-329	N/A	Installed	N
Outlet Valve	N/A	None	N/A	3-50-329	N/A	Removed	N

7. Description of Work:  
 Replace valve and bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic: N/A Nominal Operating Pressure X  
 Other: VT-2 Pressure 30 psig Test Temperature 90.4 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Edgar OSE Mgr Date 10/10/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 12-02-05 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Paul A. Blawie  
 Inspector's Signature

Commissions 12477 (A, C, N, F)  
 National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner: Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/2/2007  
Sheet 1 of 2

2. Plant: Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
WO#: 36005940-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
Authorization Number N/A  
Expiration Date N/A

4. Identification of System: Residual Heat Removal System #: 50 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Valve to RHR Heat Exchanger B inlet	N/A	N/A	N/A	3-757B	N/A	Corrected	N

7. Description of Work:  
Replace body to bonnet bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed EJ [Signature] OSE Mgr Date 10/2/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 5-2-07 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions: FL 477(A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/2/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 37008859-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
ICW Basket Strainer	N/A	N/A	N/A	BS-3-1402	N/A	Corrected	N

7. Description of Work:  
 Replace cover bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed *EJ* OSE Mgr Date 10/2/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 7-5-07 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Robert P. Colacito* \_\_\_\_\_ Commissions FL477 (A, C, N, I, J)  
Inspector's Signature National Board, State, Providence, and Endorsements

Date 10-11-07 \_\_\_\_\_

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/2/2007  
Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
WO#: 35019795-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
Authorization Number N/A  
Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Inlet Valve to Basket Strainer	N/A	733133D D-1-1		3-50-324	N/A	Installed	N
Inlet Valve	N/A	61645		3-50-324	N/A	Removed	N

7. Description of Work:

Replace Valve and bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic: N/A Nominal Operating Pressure X  
Other: N/A Pressure 30 psig Test Temperature 90.4 deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Edgar OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 11-2-05 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Leah A. Roberts  
Inspector's Signature

Commissions FL 477 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/4/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address  
 WO#: 36026343-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Restricting Orifice for ICW to Lube water	N/A	N/A	N/A	RO-3-6691	N/A	Corrected	N

7. Description of Work:  
 Replace bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-28-07 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477(A,C,N,I)  
 National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/5/2007  
Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
WO#: 36026342-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
Authorization Number N/A  
Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Restricting Orifice for ICW Lube water	N/A	N/A	N/A	RO-3-6690	N/A	Corrected	N

7. Description of Work:  
Replace bolting material

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed EJ OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-28-07 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Paul A. Colantuono*  
 Inspector's Signature

Commissions FL 417 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/6/2007

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3

WO#: 36019819-01 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A

Authorization Number N/A

Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
ICW Pipe Flange	N/A	N/A	N/A	ICW Flange	N/A	Corrected	N

7. Description of Work:

Replace bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A

Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed EJ [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-15-07 to 10-11-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 477 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 10-11-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/5/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 36019711-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Main Feedwater System #: 74 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
S/G A Main Feedwater Flow Control Valve	N/A	N/A	N/A	FCV-3-478	N/A	Corrected	N

7. Description of Work:  
 Replace one bonnet Stud

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Edgar OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-22-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions PC 477 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI.

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/6/2007

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3

WO#: 36007787-01 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A

Authorization Number N/A

Expiration Date N/A

4. Identification of System: Component Cooling Water System #: 30 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Support on pipe to 3-721A	N/A	N/A	N/A	E5	N/A	Corrected	N
Support on pipe to 3-721A	N/A	N/A	N/A	E6	N/A	Corrected	N
Support on pipe to 3-721A	N/A	N/A	N/A	E7	N/A	Corrected	N

7. Description of Work:

Reinstall supports E5, E6, and E7 after corrosion removed from pipe

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A

Other VT-3 Pressure N/A psig Test Temperature N/A deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 10-1-07 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions PL 477 (AIC, NI)  
 National Board, State, Providence, and Endorsements

Date 10-25-07

## FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/5/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 37001892-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Containment Emergency Filters System #: 56 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Containment Emergency Filter C Solenoid Valve	N/A	N/A	N/A	SV-3-2909	N/A	Corrected	N

7. Description of Work:  
 Reweld canopy seal weld

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed EJ [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBC of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-7-07 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 477(A,C,N,I)  
National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/5/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035 WO#: 37001883-01 CR#: N/A  
Address Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Containment Emergency Filters System #: 56 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Emergency Filter C Solenoid Valve	N/A	N/A	N/A	SV-3-2910	N/A	Corrected	N

7. Description of Work:  
Reweld canopy seal weld

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed E. J. [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 3-23-07 to 10-25-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions CS-10-25 FL 477 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/5/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name WO#: 37020259-01 CR#: N/A  
9760 SW 344 Street Florida City, FL 33035 Repair Organization, P.O. No, Job No., etc.  
Address

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: CVCS Charging and Letdown System #: 47 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Support for valve 3-293C	N/A	N/A	N/A	Mark No.1A	N/A	Corrected	N
Support fo Valve 3-293C	N/A	N/A	N/A	Mark No. 1C	N/A	Corrected	N

7. Description of Work:  
 Replace U-Bolt on Mark #1A and weld shim on Mark #1C

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 10/10/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-26-07 to 10-25 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 10-25-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/15/2007

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3

WO#: 36019509-01 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A

Authorization Number N/A

Expiration Date N/A

4. Identification of System: Reactor Coolant System #: 41 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Pressurizer Safety Valve	N/A	H51249-1362	N/A	RV-3-551A	N/A	Removed	N
Pressurizer Safety Valve	N/A	H51249-1579	N/A	RV-3-551A	N/A	Installed	N

7. Description of Work:

Replace Valve with spare

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X

Other VT-2 Pressure 2275 psig Test Temperature 539 deg F

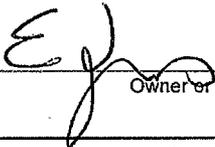
9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

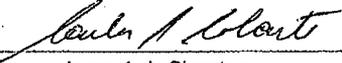
Signed  OSE Mgr \_\_\_\_\_ Date 10/17/07

Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 1-17-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

  
Inspector's Signature

Commissions FC 477 (A, C, N, D)  
National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/15/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name WO#: 36019516-01 CR#: N/A  
9760 SW 344 Street Florida City, FL 33035 Repair Organization, P.O. No, Job No., etc.  
Address

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Reactor Coolant System #: 41 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Pressurizer Safety Valve	N/A	N69877-00-0005	N/A	RV-3-551B	N/A	Removed	N
Pressurizer Safety Valve	N/A	N69877-00-0004	N/A	RV-3-551B	N/A	Installed	N

7. Description of Work:  
 Replace Valve with spare and replace bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 2275 psig Test Temperature 539 deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed EJ OSE Mgr Date 10/17/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 1-17-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 477 (A,C,N,I)  
National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/15/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 36019525-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Reactor Coolant System #: 41 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Pressurizer Safety Valve	N/A	H51249-1361	N/A	RV-3-551C	N/A	Removed	N
Pressurizer Safety Valve	N/A	H51249-1581	N/A	RV-3-551C	N/A	Installed	N

7. Description of Work:

Replace valve with spare and replace bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic: N/A Nominal Operating Pressure X  
 Other: VT-2 Pressure 2275 psig Test Temperature 539 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ej OSE Mgr Date 10/17/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 1-17-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Paul A. Melanti  
 Inspector's Signature

Commissions FL 477 (A, C, N, I, E)  
 National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/15/2007  
Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
WO#: 36018462-01 CR#: N/A  
Repair Organization, P.O. No., Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
Authorization Number N/A  
Expiration Date N/A

4. Identification of System: Main Steam System #: 72 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Main Steam Safety Valve	N/A	BL-0395	N/A	RV-3-1402	N/A	Removed	N
Main Steam Safety Valve	N/A	BL-0406	N/A	RV-3-1402	N/A	Installed	N

7. Description of Work:

Replace Valve with Spare

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
Other VT-2 Pressure 975 psig Test Temperature 541 deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Edgar OSE Mgr Date 10/17/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 8-31-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Paul A. Soler  
 Inspector's Signature

Commissions FL (477) A, N, C, I  
 National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/15/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 34020152-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Main Steam System #: 72 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Main Steam Safety Valve	N/A	BL-0396	N/A	RV-3-1407	N/A	Removed	N
Main Steam Safety Valve	N/A	BL-0400	N/A	RV-3-1407	N/A	Installed	N

7. Description of Work:  
Replace valve with spare valve

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 975 psig Test Temperature 539 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 10/17/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 8-30-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FC 477 (A, C, N, E)  
 National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/15/2007  
 Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
 Address

2. Plant Turkey Point Plant Unit 3  
 Name  
9760 SW 344 Street Florida City, FL 33035 WO#: 36018463-01 CR#: N/A  
 Address Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
 Name  
9760 SW 344 Street Florida City, FL 33035 Authorization Number N/A  
 Address Expiration Date N/A

4. Identification of System: Main Steam System #: 72 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Main Steam Safety Valve	N/A	BL-0394	N/A	RV-3-1408	N/A	Removed	N
Main Steam Safety Valve	N/A	BL-0403	N/A	RV-3-1408	N/A	Installed	N

7. Description of Work:  
 Replace valve with spare valve

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 975 psig Test Temperature 539 deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ej OSE mgr Date 10/17/09  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 8-30-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Paul A. Pelatti  
Inspector's Signature

Commissions FL47(A,N,C,I)  
National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/15/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035 WO#: 36014347-01 CR#: N/A  
Address Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Main Steam System #: 72 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Main Steam Safety Valve	N/A	BL-0389	N/A	RV-3-1410	N/A	Removed	N
Main Steam Safety Valve	N/A	BL-0401	N/A	RV-3-1410	N/A	Installed	N

7. Description of Work:  
 Replace valve with spare

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 975 psig Test Temperature 541 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed *Ej* OSE Mgr Date 10/17/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 8-30-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Larry A. Blaine*  
 Inspector's Signature

Commissions FL 471 (A, C, N, D)  
 National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/15/2007

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3

WO#: 36011234-01 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A

Authorization Number N/A

Expiration Date N/A

4. Identification of System: CVCS Charging and Letdown System #: 47 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Letdown Isolation Valve	N/A	N/A	N/A	CV-3-204	N/A	Corrected	N

7. Description of Work:  
Replace bonnet bolting

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
Other N/A Pressure N/A psig Test Temperature N/A deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Edgar OSE mgr Date 10/16/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 6-29-07 to 11-1-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Robert A. Dolowitz  
 Inspector's Signature

Commissions FL 477 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 11-1-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/25/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 37019007-03 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Reactor Coolant System #: 41 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
B Hot Leg RTD	N/A	N6102	N/A	TE-3-422B2	N/A	Corrected	N

7. Description of Work:  
 Replace Thermowell

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 2275 psig Test Temperature 539 deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 11/8/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-18-07 to 11-08-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 477 / A, C, M, D  
National Board, State, Providence, and Endorsements

Date 11-8-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/25/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408 Sheet 1 of 2  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035 WO#: 37014438-01 CR#: N/A  
Address Repair Organization, P.O. No., Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Reactor Coolant System #: 41 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
B Cold Leg Thermowell for RTD	N/A	N/A	N/A	TE-3-420A	N/A	Corrected	N

7. Description of Work:  
 Replace thermowell

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 2275 psig Test Temperature 539 deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 11/8/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 8-19-07 to 11-8-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions FL 477 (A, C, N, F)  
National Board, State, Providence, and Endorsements

Date 11-8-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/25/2007  
 Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
 WO#: 36019872-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Reactor Coolant System #: 41 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
A Steam Generator	N/A	N/A	N/A	3E210A	N/A	Corrected	N

7. Description of Work:  
 Replace bolt at "A" hand-hole cover

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
 Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Edmund OSE Mgr Date 11/8/07  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-22-07 to 11-20-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Paul A. Selatti  
Inspector's Signature

Commissions F2477 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 11-20-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/29/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 35010386-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: CVCS Charging and Letdown System #: 47 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Seal Water Outlet Isolation Valve	N/A	N/A	N/A	3-293A	N/A	Installed	N

7. Description of Work:  
 Replace Valve by welding

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 2400 psig Test Temperature 119.5 deg F

FORM NIS-2 (Back)

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE mgr Date 11/8/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 11-4-05 to 11-8-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477 (A, C, N, I)  
 National Board, State, Providence, and Endorsements

Date 11-8-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/29/2007  
Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
WO#: 33022952-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
Authorization Number N/A  
Expiration Date N/A

4. Identification of System: CVCS Charging and Letdown System #: 47 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
RCP A Seal Water Check Valve	N/A	N/A	N/A	3-298D	N/A	Corrected	N

7. Description of Work:  
Reweld canopy seal weld after overhaul

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure N/A  
Other N/A Pressure N/A psig Test Temperature N/A deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Edgar OSE Mgr Date 11/8/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-13-07 to 11-8-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Paul A. Blawie  
 Inspector's Signature

Commissions P2477 (A, C, N, D)  
 National Board, State, Providence, and Endorsements

Date 11-8-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/29/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 36009235-02 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: Flux Mapper System #: 59 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Flux Mapper Seal Table Guide Tube	N/A	N/A	N/A	D-3	N/A	Corrected	N

7. Description of Work:  
 Replace fitting and seal weld

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 2275 psig Test Temperature 539 deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE mgr Date 11/8/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-17-07 to 11-8-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477 (A, C, D, E)  
 National Board, State, Providence, and Endorsements

Date 11-08-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 10/25/2007

Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
WO#: 37020609-01 CR#: N/A

Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
Authorization Number N/A  
Expiration Date N/A

4. Identification of System: CVCS Charging and Letdown System #: 47 Quality Group A

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Bypass Isolation valve	N/A	N/A	N/A	3-385	N/A	Corrected	N

7. Description of Work:

Replace valve bonnet

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
Other VT-2 Pressure 2275 psig Test Temperature 539 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed [Signature] OSE Mgr Date 11/8/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-22-07 to 11-8-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
 Inspector's Signature

Commissions FL 477 (A, C, N, D)  
 National Board, State, Providence, and Endorsements

Date 11-8-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co. Date 10/29/2007  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

2. Plant Turkey Point Plant Unit 3  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address WO#: 35010379-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co. Type Code Symbol Stamp N/A  
Name Authorization Number N/A  
9760 SW 344 Street Florida City, FL 33035 Expiration Date N/A  
Address

4. Identification of System: CVCS Charging and Letdown System #: 47 Quality Group B

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
Seal water injection filter isolation valve	N/A	N/A	N/A	3-293D	N/A	Installed	N

7. Description of Work:  
 Replace valve by welding

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other VT-2 Pressure 2400 psig Test Temperature 115 deg F

9. Remarks ALL WELDING PERFORMED IN ACCORDANCE WITH THE FPL WELD CONTROL MANUAL.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed *Ej* OSE mgr Date 11/8/07  
 Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 9-10-07 to 11-8-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

*Paul A. Adams*  
 Inspector's Signature

Commissions *FL* *AB 177 (A.C, N.I)*  
 National Board, State, Providence, and Endorsements

Date 11-8-07

**FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS**

As Required by the Provisions of the ASME Code Section XI

1. Owner Florida Power and Light Co.  
Name  
700 Universe Blvd. Juno Beach, FL 33408  
Address

Date 11/14/2007  
 Sheet 1 of 2

2. Plant Turkey Point Plant  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Unit 3  
 WO#: 35030563-01 CR#: N/A  
Repair Organization, P.O. No, Job No., etc.

3. Work Performed by Florida Power and Light Co.  
Name  
9760 SW 344 Street Florida City, FL 33035  
Address

Type Code Symbol Stamp N/A  
 Authorization Number N/A  
 Expiration Date N/A

4. Identification of System: Intake Cooling Water System #: 19 Quality Group C

5. (a) Applicable Construction Code B31.1 19 55 Edition, N/A Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 98 Edition, 2000 Addenda, N/A Code Case

6. Identification of Components Corrected or Removed and Installed Components

Name of Component	Name of Mfg	Mfg Serial Number	National Board	Other Identification	Year Built	Corrected, Removed or Installed	ASME Code Stamp Yes/No
3C Intake Cooling Water Pump	N/A	IST-2	N/A	3P9C	N/A	Removed	N
3C Intake Cooling Water Pump	N/A	IST-3	N/A	3P9C	N/A	Installed	N

7. Description of Work:  
Replace Pump and expansion joint

8. Tests Conducted: Hydrostatic: N/A Pneumatic N/A Nominal Operating Pressure X  
 Other N/A Pressure 16 psig Test Temperature 78 deg F

FORM NIS-2 (Back)

9. Remarks MECHANICAL CONNECTION, NO WELDING REQUIRED.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration Date: \_\_\_\_\_ N/A \_\_\_\_\_

Signed Ed OSE Mgr Date 11/15/07  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state of Florida and employed by HSBCT of Hartford, Connecticut, have inspected the components described in this Owners Report during the period of 11-16-06 to 11-20-07 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Report in accordance with the requirements of ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Paul A. Blantz  
Inspector's Signature

Commissions FL 477 (A, C, N, I)  
National Board, State, Providence, and Endorsements

Date 11-20-07

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

**Summary of Inservice Inspection Examinations  
4<sup>th</sup> Interval – 2<sup>nd</sup> Period**

**Attachment 1**

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

REACTOR PRESSURE VESSEL  
 Zone # 3-001

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
ISO# 5613-M-4000										
038110	3-CRDM-64 (P6) CRDM Housing Weld	B-O B14.10	C PT		3.3-006	X	-	-	-	9/12/2007 - PT Complete. No Recordable Indications.
ISO# 5613-M-4000										
038170	3-CRDM-66 (F2) CRDM Housing Weld	B-O B14.10	C PT		3.3-005	X	-	-	-	9/12/2007 - PT Complete. No Recordable Indications.
ISO# 5613-M-4000										
038230	3-CRDM-68 (B10) CRDM Housing Weld	B-O B14.10	C PT		3.3-004	X	-	-	-	9/12/2007 - PT Complete. No Recordable Indications.
ISO# 5613-M-4000										
038700	3/4"-RC-1377-1 REACTOR HEAD TO CONNECTION	R-A R1.12	C VT-2		4.2-002	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indications.
ISO# 5613-P-5074 SH. 1										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

STEAM GENERATOR A PRIMARY SIDE  
Zone # 3-003

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
039500	3-SGA-I-IRS INLET NOZZLE INNER RADIUS SECTION	B-D B3.140	C	VT-1 Enhance	4.8-001	X	-	-	-	9/13/2007 - Enhanced Visual Complete. No Recordable Indications.
ISO# 5613-M-4003										
039600	3-SGA-O-IRS OUTLET NOZZLE INNER RADIUS SECTION	B-D B3.140	C	VT-1 Enhance	4.8-002	X	-	-	-	9/13/2007 - Enhanced Visual Complete. No Recordable Indications.
ISO# 5613-M-4003										

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

STEAM GENERATOR C PRIMARY SIDE  
 Zone # 3-005

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
041300	3-SGC-I BOLTING STEAM GENERATOR INLET MANWAY BOLTING ISO# 5613-M-4005	B-G-2 B7.30	C	VT-1	4.1-008	X	-	-	-	9/14/2007 - VT-1 Complete. No Recordable Indications.
041400	3-SGC-O BOLTING STEAM GENERATOR OUTLET MANWAY BOLTING ISO# 5613-M-4005	B-G-2 B7.30	C	VT-1	4.1-007	X	-	-	-	9/14/2007 - VT-1 Complete. No Recordable Indications.

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

**REACTOR COOLANT SYSTEM LOOP A COLD LEG**

Zone # 3-009

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	G	O	Remarks
						R	S	E	T	
						C	G	M	R	
045500	27.5"-RCS-1307-1 2" BRANCH CONNECTION	R-A R1.12	C	VT-2	4.2-003	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.

ISO# 5613-P-766-S SH. 1

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

REACTOR COOLANT SYSTEM LOOP B COLD LEG  
 Zone # 3-012

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	O	Remarks
						R	S	G	
						E	I	E	
						C	G	M	
048000	27.5"-RCS-1306-1 2" BRANCH CONNECTION	R-A R1.12	C	VT-2	4.2-004	X	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-766-S SH. 2									
048500	27.5"-RCS-1306-13 PIPE TO ELBOW	R-A R1.11	C	UT	5.4-012	-	-	-	9/23/2007 - UT Complete. Root Geometry recorded. 100% Coverage from the Pipe side. Greater than 90% from the Elbow Side.
				45S 2.25 AX		-	-	X	
				45S 2.25 CIR		X	-	-	
				UT	5.23-001	-	-	-	
ISO# 5613-P-766-S SH. 2									
				45L 1.0 AX		X	-	-	
				45L 1.0 CIR		X	-	-	

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

REACTOR COOLANT SYSTEM LOOP C HOT LEG  
 Zone # 3-014

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	G	O	Remarks
						R	S	E	T	
						C	G	M	R	
050100	29"-RCS-1308-3 PIPE TO ELBOW	R-A RI.11	C	UT	5.4-013	-	-	-	-	9/23/2007 - UT Complete. Root Geometry recorded. 100% Coverage from the Pipe side. Greater than 90% from the Elbow Side.
				45S 2.25 AX		-	-	X	-	
				45S 2.25 CIR		X	-	-	-	
				UT	5.23-002	-	-	-	-	
ISO# 5613-P-766-S SH. 3				45L 1.0 AX		X	-	-	-	
				45L 1.0 CIR		X	-	-	-	
						-	-	-	-	

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

**REACTOR COOLANT SYSTEM LOOP C COLD LEG**  
 Zone # 3-015

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S E I G	G E O M	T H E R	Remarks
050600	27.5"-RCS-1309-1 2" BRANCH CONNECTION	R-A R1.12	C	VT-2	4.2-005	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.

ISO# 5613-P-766-S SH. 3

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

**REACTOR COOLANT SYSTEM AUXILIARY SPRAY LINE**  
Zone # 3-035

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	G	O	Remarks
						R	S	E	T	
						C	G	M	R	
114400	2"-RC-1310-2 VALVE 3-313 TO PIPE	R-A R1.12	C	VT-2	4.2-006	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-661-S SH. 2										
120900	2"-RC-1310-38 REDUCER TO PIPE	R-A R1.12	C	VT-2	4.3-006	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-661-S SH. 2										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

RESIDUAL HEAT REMOVAL TO RC LOOP A COLD LEG  
Zone # 3-037

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
123500	10"-SI-1301-2 PIPE TO ELBOW  ISO# 5613-P-585-S SH. 1	R-A R1.11	C UT	5.4-002		-	-	-	-	9/11/2007 - UT Complete. No Recordable Indications. 100% Coverage Achived from both sides.
				45S 2.25 AX		X	-	-	-	
				45S 2.25 CIR		X	-	-	-	
				60S 2.25 AX		X	-	-	-	
123600	10"-SI-1301-3 ELBOW TO PIPE  ISO# 5613-P-585-S SH. 1	R-A R1.11	C UT	5.4-002		-	-	-	-	9/11/2007 - UT Complete. No Recordable Indications. 100% Coverage Achived from both sides.
				45S 2.25 AX		X	-	-	-	
				45S 2.25 CIR		X	-	-	-	
				60S 2.25 AX		X	-	-	-	
126100	8"-RHR-1301-2 PIPE TO ELBOW  ISO# 5613-P-585-S SH. 1	R-A R1.11	C UT	5.4-001		-	-	-	-	9/11/2007 - UT Complete. No Recordable Indications. 100% Coverage Achived from both sides.
				45S 2.25 AX		X	-	-	-	
				45S 2.25 CIR		X	-	-	-	
				60S 2.25 AX		X	-	-	-	

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

Page 10

**HIGH HEAD SAFETY INJECTION LOOP B INSIDE CTMT**

Zone # 3-041

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N I G T O N G T R S E H E I O E C G M R				Remarks
140700	8051-R-528-01 DOUBLE ACTING RESTRAINT	F-A F1.10	C	VT-3	4.3-011	X	-	-	-	9/10/2007 - VT-3 Complete. No Recordable Indications.

ISO# 5613-P-584-S SH. 1

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

HIGH HEAD SAFETY INJECTION LOOP C INSIDE CTMT  
 Zone # 3-042

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
147700	2"-SI-1303-24 PIPE TO ELBOW	R-A R1.12	C	VT-2	4.2-007	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-648-S SH. 1										
147800	2"-SI-1303-25 ELBOW TO PIPE	R-A R1.12	C	VT-2	4.2-007	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-648-S SH. 1										
147900	2"-SI-1303-26 PIPE TO ELBOW	R-A R1.12	C	VT-2	4.2-007	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-648-S SH. 1										
148000	2"-SI-1303-27 ELBOW TO PIPE	R-A R1.12	C	VT-2	4.2-007	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-648-S SH. 1										
148100	2"-SI-1303-28 PIPE TO BRANCH CONNECTION	R-A R1.12	C	VT-2	4.2-007	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-648-S SH. 1										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

HIGH HEAD SAFETY INJECTION LOOP A INSIDE CTMT  
Zone # 3-043

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G M	G E I O M	O T H E R	Remarks
148900	8080-H-010-01 DOUBLE ACTING RESTRAINT	F-A FI.10	C	VT-3	4.3-015	X	-	-	-	9/11/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-764-S SH. 2										
151500	8080-H-010-12 SINGLE ACTING RESTRAINT	F-A FI.10	C	VT-3	4.3-017	X	-	-	-	9/11/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-764-S SH. 2										

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

**CHEMICAL & VOLUME CONTROL TO RC LOOP C HOT LEG**  
 Zone # 3-045

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	O	R	E	C	G	M	T	H	E	R	Remarks
160300	PS-60 DOUBLE ACTING RESTRAINT	F-A F1.10	C	VT-3	4.3-007	X	-	-	-	-	-	-	-	-	-	-	-	9/8/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-661-S SH. 1																		
161900	3-VCH-115 DOUBLE ACTING RESTRAINT	F-A F1.10	A	VT-3	4.3-009	X	-	-	-	-	-	-	-	-	-	-	-	9/8/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-661-S SH. 1																		
165400	3-VCH-132 SINGLE ACTING RESTRAINT	F-A F1.10	C	VT-3	4.3-016	X	-	-	-	-	-	-	-	-	-	-	-	9/11/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-661-S SH. 2																		

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

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**CHEMICAL AND VOLUME CONTROL TO REGENERATIVE HX**

Zone # 3-047

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N I O				Remarks
						C	G	M	R	
172500	3-VCH-129 SINGLE ACTING RESTRAINT	F-A F1.10	C	VT-3	4.3-008	X	-	-	-	9/8/2007 - VT-3 Complete. No Recordable Indications.

ISO# 5613-P-594-S SH. 1

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Turkey Point Nuclear Plant [PTN] - Unit 3

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REVISION: 0

Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

**CHEMICAL & VOLUME CONTROL SEAL INJECTION LOOP A**

Zone # 3-050

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	O	Remarks
						R	S	G	
						E	I	E	
						C	G	M	
181140	1"-CH-1351-1 RCP 3P-200A TO PIPE	R-A R1.12	C	VT-2	4.2-008	X	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1									
181148	3/4"-CH-1357-2 1" x 3/4" REDUCER TO PIPE	R-A R1.12	C	VT-2	NDE 4.2	X	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1									
181190	1"-CH-1348-3 REDUCER TO FLANGE	R-A R1.12	C	VT-2	4.2-008	X	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1									
181192	1"-CH-1354-1 FLANGE TO 1" x 3/4" REDUCER	R-A R1.12	C	VT-2	4.2-008	X	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1									

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

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**CHEMICAL & VOLUME CONTROL SEAL INJECTION LOOP C**  
 Zone # 3-051

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	G	O	Remarks
182800	1"-CH-1353-1 RCP 3P-200C TO PIPE	R-A R1.12	C	VT-2	4.2-009	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										
182809	3/4"-CH-1359-6 ELBOW TO PIPE	R-A R1.12	C	VT-2	4.2-009	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										
182820	1"-CH-1350-3 REDUCER TO FLANGE	R-A R1.12	C	VT-2	NDE 4.2	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										
182825	3/4"-CH-1356-5 PIPE TO ELBOW	R-A R1.12	C	VT-2	4.2-009	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										
182836	3/4"-CH-1341A-2 CONNECTION TO PIPE	R-A R1.12	C	VT-2	4.2-009	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5071 SH. 3										
182838	3/4"-CH-1341B-1 FLANGE TO PIPE	R-A R1.12	C	VT-2	4.2-009	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5071 SH. 3										
182854	3/4"-CH-1344-5 VALVE 3-304L TO PIPE	R-A R1.12	C	VT-2	4.2-009	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5071 SH. 3										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C; B, P, E, A, R)

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**CHEMICAL & VOLUME CONTROL SEAL INJECTION LOOP B**  
Zone # 3-052

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G M	G E O M	T H E R	Remarks
185798	1"-CH-1352-1 RCP 3P-200B TO PIPE	R-A R1.12	C	VT-2	4.2-010	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										
185805	3/4"-CH-1358-4 ELBOW TO PIPE	R-A R1.12	C	VT-2	4.2-010	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										
185819	1"-CH-1349-2 PIPE TO REDUCER	R-A R1.12	C	VT-2	4.2-010	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										
185824	3/4"-CH-1355-3 PIPE TO ELBOW	R-A R1.12	C	VT-2	4.2-010	X	-	-	-	10/11/2007 - VT-2 complete. No Recordable Indicaitions.
ISO# 5613-P-5070 SH. 1										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

REACTOR COOLANT PUMP C  
Zone # 3-058

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G M	G E O M	T H E R	Remarks
203100	3-RCP-C-A PUMP CASING WELD A	B-L-1 B12.10	C	VT-1	4.1-004	X	-	-	-	9/10/2007 - VT-1 Complete. No Recordable Indications.
ISO# 5613-M-4008										
203200	3-RCP-C-B PUMP CASING WELD B	B-L-1 B12.10	C	VT-1	4.1-003	X	-	-	-	9/10/2007 - VT-1 Complete. No Recordable Indications.
ISO# 5613-M-4008										
203300	3-RCP-C-C PUMP CASING WELD C	B-L-1 B12.10	C	VT-1	4.1-002	X	-	-	-	9/10/2007 - VT-1 Complete. No Recordable Indications.
ISO# 5613-M-4008										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

CHEMICAL & VOLUME CONTROL, REGENERATIVE HEAT EXCH

Zone # 3-059

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
204100	RGX 3E200 VISUAL FOR LEAKAGE	C	VT-2	VT-2	4.2-011	X	-	-	-	9/3/2007 - VT-2 complete. No Recordable Indications. Examination at Shutdown. 10/11/2007 - VT-2 complete. No Recordable Indications. Examination at Start-up.
				VT-2	4.2-001	X	-	-	-	

ISO# 5613-M-4009

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

**STEAM GENERATOR B SECONDARY SIDE**  
Zone # 3-061

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E M	O T H E R	Remarks
211600	3-SGB-SS SECONDARY SIDE EXAMINATION		A	VT	4.4-001	-	X	-	-	9/25/2007 - Visual (Remote and Direct) and UT Thickness Complete. Slight undercut was observed around the inside radius of the J-nozzle weld (Flow induced undercut). Also erosion observed on the feedring where the flow comes our of the J-nozzles.
ISO# 5613-M-4004										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

**RESIDUAL HEAT REMOVAL TO RESID.HEAT REMOVAL PUMP A**  
 Zone # 3-063

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	T H E R	Remarks
214900	SR-252 SPRING HANGER	F-A F1.20	C VT-3		4.3-014	X	-	-	-	8/31/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-600-S SH. 1										
215000	14"-RHR-2301-9 PIPE TO ELBOW	C-F-1 C5.11	C PT		3.3-007	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications.
			UT		5.4-006	-	-	-	-	9/15/2007 - UT Complete. Root Geometry recorded 360 degrees intermittent. 100% Coverage Achieved.
			45S 5.0 AX			X	-	-	-	
			45S 5.0 CIR			X	-	-	-	
ISO# 5613-P-600-S SH. 1										
215050	14"-RHR-2301-9LDI LONG SEAM DOWNSTREAM INSIDE RADIUS		C PT		3.3-007	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications.
			UT		5.4-006	-	-	-	-	9/15/2007 - UT Complete. No Recordable Indications.
			45S 5.0 AX			X	-	-	-	
			45S 5.0 CIR			X	-	-	-	
ISO# 5613-P-600-S SH. 1										
215100	14"-RHR-2301-9LDO LONG SEAM DOWNSTREAM OUTSIDE RADIUS		C PT		3.3-007	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications.
			UT		5.4-006	-	-	-	-	9/15/2007 - UT Complete. No Recordable Indications.
			45S 5.0 AX			X	-	-	-	
			45S 5.0 CIR			X	-	-	-	
ISO# 5613-P-600-S SH. 1										
215180	14"-RHR-2301-10LUI LONG SEAM UPSTREAM INSIDE RADIUS		C PT		3.3-007	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications.
			UT		5.4-005	-	-	-	-	9/15/2007 - UT Complete. No Recordable Indications.
			45S 5.0 AX			X	-	-	-	
			45S 5.0 CIR			X	-	-	-	
ISO# 5613-P-600-S SH. 1										
215190	14"-RHR-2301-10LUO LONG SEAM UPSTREAM OUTSIDE RADIUS		C PT		3.3-007	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications.
			UT		5.4-005	-	-	-	-	9/15/2007 - UT Complete. No Recordable Indications.
			45S 5.0 AX			X	-	-	-	
			45S 5.0 CIR			X	-	-	-	
ISO# 5613-P-600-S SH. 1										
215200	14"-RHR-2301-10 ELBOW TO PIPE	C-F-1 C5.11	C PT		3.3-007	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications.
			UT		5.4-005	-	-	-	-	9/15/2007 - UT Complete. Root Geometry recorded 360 degrees intermittent. 100% Coverage Achieved.
			45S 5.0 AX			X	-	-	-	
			45S 5.0 CIR			X	-	-	-	
ISO# 5613-P-600-S SH. 1										
			60S 5.0 AX			-	-	X	-	
			70S 2.25 AX			-	-	X	-	
						-	-	-	-	
						-	-	-	-	

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3

Inservice Inspection Results Summary

Interval 4, Period 2, Outage 1 ((4,2,1))

Completed Components (C, B, P, E, A, R)

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**RESIDUAL HEAT REMOVAL TO RESID. HEAT REMOVAL PUMP A**

Zone # 3-063

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status		Data Sheet Number	N O R E C	I N S I G	G E O M	T H E R	Remarks
			Method							
215700	SR-251 SPRING HANGER	F-A F1.20	A	VT-3	4.3-023	X	-	-	-	9/11/2007 - VT-3 Complete. No Recordable Indications. The examination of SR-251 was required by site engineering per CR 2006-8621 for Cycle 22.
ISO# 5613-P-600-S SH. 1										
216500	14"-RHR-2301-18 VALVE 3-752A TO PIPE	C-F-1 C5.11	C	PT UT	3.3-007 5.4-009	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/15/2007 - UT Complete. Root Geometry Recorded. 100% Coverage Achieved from Pipe Side.
ISO# 5613-P-600-S SH. 1										
				45S 2.25 CIR		X	-	-	-	
				60S 2.25 AX		-	-	X	-	
				70S 2.25 AX		X	-	-	-	
-----										
216520	14"-RHR-2301-18LD LONGITUDINAL SEAM WELD DOWNSTREAM		C	PT UT	3.3-008 5.4-009	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/15/2007 - UT Complete. No Recordable Indications.
ISO# 5613-P-600-S SH. 1										
				45S 2.25 CIR		X	-	-	-	
				60S 2.25 AX		X	-	-	-	
				70S 2.25 AX		X	-	-	-	
-----										
216580	14"-RHR-2301-19LU LONGITUDINAL SEAM WELD UPSTREAM		C	PT UT	3.3-008 5.4-010	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/15/2007 - UT Complete. No Recordable Indications.
ISO# 5613-P-600-S SH. 1										
				45S 5.0 CIR		X	-	-	-	
				60S 5.0 AX		X	-	-	-	
-----										
216600	14"-RHR-2301-19 PIPE TO TEE	C-F-1 C5.11	C	PT UT	3.3-007 5.4-010	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/15/2007 - UT Complete. Root Geometry Recorded. 100% Coverage Achieved.
ISO# 5613-P-600-S SH. 1										
				45S 5.0 CIR		X	-	-	-	
				60S 5.0 AX		-	-	X	-	
-----										
216620	14"-RHR-2301-19LD1 LONGITUDINAL SEAM WELD INSIDE OF TEE		C	PT UT	3.3-008 5.4-010	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/15/2007 - UT Complete. No Recordable Indications.
ISO# 5613-P-600-S SH. 1										
				45S 5.0 CIR		X	-	-	-	
				60S 5.0 AX		X	-	-	-	
-----										
216640	14"-RHR-2301-19LD2 LONGITUDINAL SEAM WELD OUTSIDE OF TEE		C	PT UT	3.3-008 5.4-010	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/15/2007 - UT Complete. No Recordable Indications.
ISO# 5613-P-600-S SH. 1										
				45S 5.0 CIR		X	-	-	-	
				60S 5.0 AX		X	-	-	-	

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

**RESIDUAL HEAT REMOVAL TO RESID.HEAT REMOVAL PUMP B**  
 Zone # 3-064

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
217980	14"-RHR-2303-2LU1 Longitudinal Seam Weld Upstream Inside o  ISO# 5613-P-600-S SH. 1	C	SUR	3.3-009	VOL	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/16/2007 - UT Complete. No Recordable Indications.
						-	-	-	-	
						X	-	-	-	
						X	-	-	-	
						X	-	-	-	
217990	14"-RHR-2303-2LU2 Longitudinal Seam Weld Upstream Outside  ISO# 5613-P-600-S SH. 1	C	PT	3.3-009	UT	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/16/2007 - UT Complete. No Recordable Indications.
						-	-	-	-	
						X	-	-	-	
						X	-	-	-	
						X	-	-	-	
218000	14"-RHR-2303-2 TEE TO PIPE  ISO# 5613-P-600-S SH. 1	C-F-1 C5.11	PT	3.3-001	UT	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/16/2007 - UT Complete. Root Geometry Recorded. 100% Coverage Achieved.
						-	-	-	-	
						X	-	-	-	
						-	-	X	-	
						-	-	X	-	
218020	14"-RHR-2303-2LD LONGITUDINAL SEAM WELD DOWNSTREAM  ISO# 5613-P-600-S SH. 1	C	PT	3.3-009	UT	X	-	-	-	9/14/2007 - PT Complete. No Recordable Indications. 9/16/2007 - UT Complete. No Recordable Indications.
						-	-	-	-	
						X	-	-	-	
						X	-	-	-	
						X	-	-	-	

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REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3

Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

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**RESIDUAL HEAT REMOVAL FROM CONTAINMENT SUMP A**

Zone # 3-066

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status		N O R E C	I N S I G	G E O M	O T H E R	Remarks
			Method	Data Sheet Number					
222080	14"-RHR-2305-3LU LONGITUDINAL SEAM WELD  ISO# 5613-P-600-S SH. 2		C	PT	3.3-002	X	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-011	-	-	-	9/15/2007 - UT Complete. No Recordable Indications.
				45S 2.25 AX		X	-	-	
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		X	-	-	
				70S 2.25 AX		X	-	-	
222100	14"-RHR-2305-3 PIPE TO VALVE MOV-3-860A  ISO# 5613-P-600-S SH. 2	C-F-1 C5.11	C	PT	3.3-002	-	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-011	-	-	-	9/15/2007 - UT Complete. No Recordable Indications.
				45S 2.25 AX		-	-	X	
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		-	-	X	
				70S 2.25 AX		X	-	-	
222860	14"-RHR-2305-10LUI LONG SEAM WELD INSIDE RADIUS OF ELBOW  ISO# 5613-P-600-S SH. 2		C	PT	3.3-001	X	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-003	-	-	-	9/14/2007 - UT Complete. No Recordable Indications.
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		X	-	-	
				70S 2.25 AX		X	-	-	
222880	14"-RHR-2305-10LUO LONG SEAM WELD OUTSIDE RADIUS OF ELBOW  ISO# 5613-P-600-S SH. 2		C	PT	3.3-001	X	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-003	-	-	-	9/14/2007 - UT Complete. No Recordable Indications.
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		X	-	-	
				70S 2.25 AX		X	-	-	
222900	14"-RHR-2305-10 ELBOW TO PIPE  ISO# 5613-P-600-S SH. 2	C-F-1 C5.11	C	PT	3.3-001	X	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-003	-	-	-	9/14/2007 - UT Complete. Root Geometry recorded 360 degrees intermittent. 100% Coverage Achieved.
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		-	-	X	
				70S 2.25 AX		X	-	-	
222920	14"-RHR-2305-10LD LONGITUDINAL SEAM WELD DOWNSTREAM  ISO# 5613-P-600-S SH. 2		C	PT	3.3-001	X	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-003	-	-	-	9/14/2007 - UT Complete. No Recordable Indications.
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		X	-	-	
				70S 2.25 AX		X	-	-	
222980	14"-RHR-2305-11LU LONGITUDINAL SEAM WELD UPSTREAM  ISO# 5613-P-600-S SH. 2		C	PT	3.3-001	X	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-004	-	-	-	9/14/2007 - UT Complete. No Recordable Indications.
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		X	-	-	
				70S 2.25 AX		X	-	-	
223000	14"-RHR-2305-11 PIPE TO VALVE MOV-3-861A  ISO# 5613-P-600-S SH. 2	C-F-1 C5.11	C	PT	3.3-001	X	-	-	8/31/2007 - PT Complete. No Recordable Indications.
				UT	5.4-004	-	-	-	9/14/2007 - UT Complete. Root Geometry recorded 360 degrees intermittent. Limited scan for 1" due to ID tag located at width .95" to 1.75" a dn length +/- .5".
				45S 2.25 CIR		X	-	-	
				60S 2.25 AX		-	-	X	
				70S 2.25 AX		X	-	-	

DATE: 11/16/2007  
 REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

**SAFETY INJECTION SYSTEM OUTSIDE CONTAINMENT**  
 Zone # 3-090

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status		Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks	
274100	8"-SI-2308-19 ELBOW TO PENETRATION P-11	C-F-1 C5.11	C	PT	3.3-003	X	-	-	-	8/31/2007 - PT Complete. No Recordable Indications.	
				UT	5.4-008	-	-	-	-		
				45S 2.25 AX		X	-	-	-	-	9/15/2007 - UT Complete. Root Geometry Recorded. 100% Coverage Achieved.
				45S 2.25 CIR		X	-	-	-	-	
	ISO# 5613-P-601-S SH. 1			60S 2.25 AX		-	-	X	-		

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3

Inservice Inspection Results Summary

Interval 4, Period 2, Outage 1 ((4,2,1))

Completed Components (C, B, P, E, A, R)

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**HIGH HEAD SAFETY INJECTION OUTSIDE CONTAINMENT**

Zone # 3-095

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N	I	O	R	S	G	E	T	H	R	Remarks
288604	8080-R-007-01 DOUBLE ACTING RESTRAINT	F-A F1.20	C VT-3		4.3-001	X	-	-	-	-	-	-	-	-	-	8/31/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-823-S SH. 2																
288820	8080-H-004-01 DOUBLE ACTING RESTRAINT	F-A F1.20	C VT-3		4.3-004	X	-	-	-	-	-	-	-	-	-	8/31/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-823-S SH. 1																
288865	8080-H-007-07 DOUBLE ACTING RESTRAINT	F-A F1.20	C VT-3		4.3-002	X	-	-	-	-	-	-	-	-	-	8/31/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-823-S SH. 1																
288868	8080-H-007-07 IA INTEGRAL ATTACHMENTS	C-C C3.20	C PT		3.3-010	X	-	-	-	-	-	-	-	-	-	8/31/2007 - VT-1 Complete. No Recordable Indications. There is a 1/4" area in the middle of the weld where there is no weld metal. The weld size was evaluated in a condition report CR 97-0160.
ISO# 5613-P-823-S SH. 1																
288878	8080-H-007-10 DOUBLE ACTING RESTRAINT	F-A F1.20	C VT-3		4.3-003	X	-	-	-	-	-	-	-	-	-	8/31/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-823-S SH. 1																
288896	8080-H-005-02 DOUBLE ACTING RESTRAINT	F-A F1.20	C VT-3		4.3-005	X	-	-	-	-	-	-	-	-	-	8/31/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-823-S SH. 1																
288911	8080-H-005-01 DOUBLE ACTING RESTRAINT	F-A F1.20	C VT-3		4.3-010	X	-	-	-	-	-	-	-	-	-	9/6/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-823-S SH. 1																

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
 Inservice Inspection Results Summary  
 Interval 4, Period 2, Outage 1 ((4,2,1))  
 Completed Components (C, B, P, E, A, R)

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**MAIN STEAM SYSTEM LOOP A OUTSIDE CONTAINMENT**  
 Zone # 3-100

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status		Data Sheet Number	N O R E C	I N S I G	G E M	O T H E R	Remarks	
			Method								
301700	26"-MSA-2304-17 PIPE TO VALVE POV-3-2604  ISO# 5613-P-654-S SH. 2	C-F-2 CS.51	C	MT	2.2-001	X	-	-	-	9/15/2007 - MT Complete. No Recordable Indications. 9/16/2007 - UT Complete. No Recordable Indications. 100% coverage achieved from pipe side. No coverage from valve side.	
				UT	5.2-001	-	-	-	-		
				45S 2.25 AX		X	-	-	-		-
				45S 2.25 CIR		X	-	-	-		-
				70S 2.25 AX		X	-	-	-		
301800	26"-MSA-2304-17LU LONGITUDINAL SEAM WELD UPSTREAM  ISO# 5613-P-654-S SH. 2	C		MT	2.2-001	X	-	-	-	9/15/2007 - MT Complete. No Recordable Indications. 9/16/2007 - UT Complete. No Recordable Indications.	
				UT	5.2-001	-	-	-	-		
				45S 2.25 AX		X	-	-	-		-
				45S 2.25 CIR		X	-	-	-		-
				70S 2.25 AX		X	-	-	-		

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

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**MAIN FEEDWATER SYSTEM LOOP A**  
Zone # 3-109

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E M	O T H E R	Remarks
330500	AUGMENTED EXAMINAT FROM NOZZLE RAMP TO 1 DIAMETER ON ELBOW	AUG	A	UT	5.16-001	-	-	-	-	9/12/2007 - UT complete. Previously recorded root geometry and non-metallic inclusions verified by 0 degree observed.
				60S 2.25 AX		-	-	X	X	
				70S 2.25 AX		-	-	X	-	
				60S 5:0 AX		-	-	X	-	
	ISO# 5613-P-651-S SH. 1			70S 5.0 AX		-	-	X	-	

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3

Inservice Inspection Results Summary

Interval 4, Period 2, Outage 1 ((4,2,1))

Completed Components (C, B, P, E, A, R)

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MAIN FEEDWATER SYSTEM LOOP B

Zone # 3-110

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
330700	14"-FWB-2304-1 VALVE CV-3-2901 TO PIPE  ISO# 5613-P-817-S SH. 3	C-F-2 C5.51	C	MT	2.2-002	X	-	-	-	9/15/2007 - MT Complete. No Recordable Indications. 9/16/2007 - UT Complete. Geometry Recorded 360 degrees intermittent. Greater than 90% coverage obtained.
				UT	5.2-002	-	-	-		
				45S 2.25 AX		X	-	-		
				45S 2.25 CIR		X	-	-		
				60S 2.25 AX		-	-	X		
70S 2.25 AX		-	-	X						
331100	14"-FWB-2304-3 PIPE TO ELBOW  ISO# 5613-P-817-S SH. 3	C-F-2 C5.51	C	MT	2.2-002	X	-	-	-	9/15/2007 - MT Complete. No Recordable Indications. 9/16/2007 - UT Complete. Geometry Recorded 360 degrees intermittent. Backing Ring was also Recorded. 100% Coverage Achieved.
				UT	5.2-002	-	-	-		
				45S 2.25 AX		X	-	-		
				45S 2.25 CIR		X	-	-		
				60S 2.25 AX		-	-	X		
70S 2.25 AX		-	-	X						
333800	AUGMENTED EXAMINAT AUG FROM NOZZLE RAMP TO 1 DIAMETER ON ELBOW  ISO# 5613-P-652-S SH. 1	A	A	UT	5.16-002	-	-	-	-	9/15/2007 - UT complete. Previously recorded root geometry and backing ring observed.
				60S 2.25 AX		-	-	X		
				70S 2.25 AX		-	-	X		
				60S 5.0 AX		-	-	X		
				70S 5.0 AX		-	-	X		

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3

Inservice Inspection Results Summary

Interval 4, Period 2, Outage 1 ((4,2,1))

Completed Components (C, B, P, E, A, R)

MAIN FEEDWATER SYSTEM LOOP C

Zone # 3-111

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
338200	AUGMENTED EXAMINAT FROM NOZZLE RAMP TO 1 DIAMETER ON ELBOW	AUG	A	UT	5.16-003	-	-	-	-	9/11/2007 - UT Complete. Previously recorded root geometry, non-metallic inclusions and backing ring observed.
				60S 2.25 AX		-	-	X	X	
				70S 2.25 AX		-	-	X	-	
				60S 5.0 AX		-	-	X	-	
	ISO# 5613-P-178-S SH. 1			70S 5.0 AX		-	-	X	-	

DATE: 11/16/2007

Turkey Point Nuclear Plant [PTN] – Unit 3

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REVISION: 0

Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

**COMPONENT COOLING WATER SYSTEM OUTSIDE CONTAINMENT**

Zone # 3-136

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N I O				Remarks
						C	G	M	R	
356000	3-ACH-19 WELDED STANCHION	F-A F1.30	C	VT-3	4.3-006	X	-	-	-	9/4/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-618-S SH. 1										
356010	3-ACH-19 IA INTEGRAL ATTACHMENT	D-A D1.20	C	VT-1	4.1-001	X	-	-	-	9/4/2007 - VT-1 Complete. No Recordable Indications.
ISO# 5613-P-618-S SH. 1										

DATE: 11/16/2007

Turkey Point Nuclear Plant [PTN] -- Unit 3

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REVISION: 0

Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

**COMPONENT COOLING WATER SYSTEM OUTSIDE CONTAINMENT**

Zone # 3-145

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E M	O T H E R	Remarks

ISO# 5613-P-604-S SH. 6

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3

Inservice Inspection Results Summary

Interval 4, Period 2, Outage 1 ((4,2,1))

Completed Components (C, B, P, E, A, R)

COMPONENT COOLING WATER TO RESIDUAL HX B

Zone # 3-146

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
361310	3-RHE-B-UPPER SUPPORT HEAT EXCHANGER UPPER SUPPORT	F-A F1.40	C	VT-3	4.3-012	X	-	-	-	9/10/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-M-4011										
361320	3-RHE-B-UPPER SUPPORT INTEGRAL ATTACHMENT	D-A D1.10	C	VT-1	4.1-005	X	-	-	-	9/10/2007 - VT-1 Complete. No Recordable Indications.
ISO# 5613-M-4011										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3

Inservice Inspection Results Summary

Interval 4, Period 2, Outage 1 ((4,2,1))

Completed Components (C, B, P, E, A, R)

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**COMPONENT COOLING WATER FROM NON-REGENERATIVE HX**

Zone # 3-161

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
370400	3-ACH-68 SINGLE ACTING RESTRAINT	F-A F1.30	C	VT-3	4.3-013	X	-	-	-	9/10/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-622-S SH. 1										
370450	3-ACH-68 IA INTEGRAL ATTACHMENT	D-A D1.20	C	VT-1	4.1-009	X	-	-	-	9/10/2007 - VT-1 Complete. No Recordable Indications.
ISO# 5613-P-622-S SH. 1										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] -- Unit 3

Inservice Inspection Results Summary

Interval 4, Period 2, Outage 1 ((4,2,1))

Completed Components (C, B, P, E, A, R)

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AUXILIARY FEEDWATER PUMP SUCTION FROM COND.STG.TK.

Zone # 3-164

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N I O				Remarks
						C	G	M	R	
376800	80117-H-340-06 DOUBLE ACTING RESTRAINT	F-A F1.30	C	VT-3	4.3-019	X	-	-	-	9/12/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5610-P-818-S SH. 1										
376850	80117-H-340-06 IA INTEGRAL ATTACHMENT	D-A D1.20	C	VT-1	4.1-006	X	-	-	-	9/12/2007 - VT-1 Complete. No Recordable Indications.
ISO# 5610-P-818-S SH. 1										
377060	Auxiliary Feedwater Pump 31 PUMP SUPPORT	F-A F1.40	C	VT-3	4.3-020	X	-	-	-	9/12/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5610-P-818-S SH. 1										

DATE: 11/16/2007

REVISION: 0

Turkey Point Nuclear Plant [PTN] – Unit 3  
Inservice Inspection Results Summary  
Interval 4, Period 2, Outage 1 ((4,2,1))  
Completed Components (C, B, P, E, A, R)

**INTAKE & CHLOR.WATER FROM INTAKE COOLING WTR.PUMPS**  
Zone # 3-167

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E I O M	O T H E R	Remarks
377900	M-196-4 SINGLE ACTING RESTRAINT	F-A F1.30	C	VT-3	4.3-022	X	-	-	-	9/12/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-606-S SH. 1										
378110	ICW PUMP 3P9A PUMP SUPPORT	F-A F1.40	C	VT-3	4.3-021	X	-	-	-	9/12/2007 - VT-3 Complete. No Recordable Indications.
ISO# 5613-P-606-S SH. 2										

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

**Summary of Inservice Inspection IWE Examinations**

**Attachment 2**

DATE: 11/20/2007

REVISION: 0

IWE Program-All Plants [IWE] – Unit 3  
Inservice Inspection Results Summary  
Interval 1, Period 3, Outage 2 ((1,3,2))  
Completed Components (CBPROE)

Page 1

**METALLIC CONTAINMENT LINER**  
Zone # 3-001

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	T H E R	Remarks
400150	MOISTURE BARRIER LINER PLATE TO FLOOR (MOISTURE BARRIER)	E-D E5.30	O	VT-3	4.7-001	X	-	-	-	9/5/07 - VT-3 of replaced sealant (condition assessment)

ISO# 5610-C-165

DATE: 11/20/2007

REVISION: 0

IWE Program-All Plants [IWE] -- Unit 3  
Inservice Inspection Results Summary  
Interval 1, Period 3, Outage 2 ((1,3,2))  
Completed Components (CBPROE)

Page 2

**METALLIC CONTAINMENT LINER**  
Zone # 3-002

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N I O				Remarks
						R E C	S I G	G E O	T H E R	
400280	MOISTURE BARRIER LINER PLATE TO FLOOR (MOISTURE BARRIER)	E-D E5.30	O	VT-3	4.7-002	X	-	-	-	9/5/07 - VT-3 of replaced sealant (condition assessment)

ISO# 5610-C-165

DATE: 11/20/2007

REVISION: 0

IWE Program-All Plants [IWE] -- Unit 3  
Inservice Inspection Results Summary  
Interval 1, Period 3, Outage 2 ((1,3,2))  
Completed Components (CBPROE)

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**METALLIC CONTAINMENT LINER**  
Zone # 3-003

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N I G O O R S E E I O E C G M R				Remarks
401250	MOISTURE BARRIER LINER PLATE TO FLOOR (MOISTURE BARRIER)	E-D E5.30	O	VT-3	4.7-003	X	-	-	-	9/5/07 - VT-3 of replaced sealant (condition assessment)

ISO# 5610-C-165

DATE: 11/20/2007

REVISION: 0

IWE Program-All Plants [IWE] - Unit 3  
Inservice Inspection Results Summary  
Interval 1, Period 3, Outage 2 ((1,3,2))  
Completed Components (CBPROE)

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**METALLIC CONTAINMENT LINER**  
Zone # 3-004

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E M	O T H E R	Remarks

ISO# 5610-C-165

DATE: 11/20/2007  
 REVISION: 0

IWE Program-All Plants [IWE] -- Unit 3  
 Inservice Inspection Results Summary  
 Interval 1, Period 3, Outage 2 ((1,3,2))  
 Completed Components (CBPROE)

**METALLIC CONTAINMENT LINER**  
 Zone # 3-005

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G M	G E O M	O T H E R	Remarks
401510	MOISTURE BARRIER LINER PLATE TO FLOOR (MOISTURE BARRIER)	E-D E5.30	O	VT-3	4.7-005	X	-	-	-	9/5/07 - VT-3 of replaced sealant (condition assessment)

ISO# 5610-C-165

DATE: 11/20/2007

REVISION: 0

IWE Program-All Plants [IWE] - Unit 3  
Inservice Inspection Results Summary  
Interval 1, Period 3, Outage 2 ((1,3,2))  
Completed Components (CBPROE)

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**METALLIC CONTAINMENT LINER**  
Zone # 3-006

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E I O M	O T H E R	Remarks
401650	MOISTURE BARRIER LINER PLATE TO FLOOR (MOISTURE BARRIER)	E-D E5.30	O	VT-3	4.7-006	X	-	-	-	9/5/07 - VT-3 of replaced sealant (condition assessment)

ISO# 5610-C-165

DATE: 11/20/2007

IWE Program: All Plants [IWE] - Unit 3  
Inservice Inspection Results Summary  
Interval 1, Period 3, Outage 2 ((1,3,2))  
Completed Components (CBPROE)

REVISION: 0

**METALLIC CONTAINMENT LINER**  
Zone # 3-016

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E O M	O T H E R	Remarks
402682	PENETRATION 35 BOLTIN BOLTING PENETRATION 35	E-G E8.10	C	VT-1	4.7-009	X	-	-	-	9/18/07 - VT-1 Complete. Scaffold needed for inspection.
ISO# 5610-C-170										
402692	PENETRATION 36 (BOLTII BOLTING (PENETRATION 36)	E-G E8.10	C	VT-1	4.7-009	X	-	-	-	9/18/07 - VT-1 Complete. Scaffold needed for inspection. Note: Two studs at the 12 o'clock position and two studs at the 6 o'clock do not require nuts on the liner plate side by design.
ISO# 5610-C-170										

DATE: 11/20/2007

REVISION: 0

IWE Program-All Plants [IWE] -- Unit 3  
Inservice Inspection Results Summary  
Interval 1, Period 3, Outage 2 ((1,3,2))  
Completed Components (CBPROE)

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**METALLIC CONTAINMENT LINER**  
Zone # 3-018

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E M	O T H E R	Remarks
402940	LINER PLATE	E-A	C	GEN.	4.7-010	X	-	-	-	9/5/07 - General Visual Pre-repair.
	LINER PLATE (GENERAL VISUAL)	E1.11		GEN.	4.7-011	X	-	-	-	9/24/07 - General Visual Post repair.
ISO# 5610-C-165										
402990	LINER PLATE	E-A	C	VT-3	4.7-010	X	-	-	-	9/5/07 - VT-3 Pre-repair.
	LINER PLATE (VISUAL)	E1.12		VT-3	4.7-011	X	-	-	-	9/24/07 - VT-3 Post repair.
ISO# 5610-C-165										

DATE: 11/20/2007  
 REVISION: 0

IWE Program-All Plants [IWE] -- Unit 3  
 Inservice Inspection Results Summary  
 Interval 1, Period 3, Outage 2 ((1,3,2))  
 Completed Components (CBPROE)

**METALLIC CONTAINMENT LINER**  
 Zone # 3-020

Summary Number	Examination Area Identification / ISO #	ASME Sec XI Categ Item No	Status	Method	Data Sheet Number	N O R E C	I N S I G	G E M	O T H E R	Remarks
403100	LINER PLATE SOUTH RECIRC SUMP	E-A E1.11	O GEN.	4.7-008		X	-	-	-	9/18/07 - General Inspection of repaired liner plate (coatings condition assessment) Area to be made inaccessible due to the sump modifications.
ISO# 5610-C-150										
403110	LINER PLATE NORTH RECIRC SUMP	E-A E1.11	O GEN.	4.7-007		X	-	-	-	9/7/07 - General Visual of repaired liner plate (coatings condition assessment) Area to be made inaccessible due to the sump modifications.
ISO# 5610-C-150										
403130	LINER PLATE SOUTH RECIRC SUMP	E-A E1.12	O VT-3	4.7-008		X	-	-	-	9/18/07 - VT-3 of repaired liner plate (coatings condition assessment) Area to be made inaccessible due to the sump modifications.
ISO# 5610-C-150										
403140	LINER PLATE NORTH RECIRC SUMP	E-A E1.12	O VT-3	4.7-007		X	-	-	-	9/7/07 - VT-3 of repaired liner plate (coatings condition assessment) Area to be made inaccessible due to the sump modifications.
ISO# 5610-C-150										

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

**Summary of Visual Examinations and Functional  
Testing of Snubbers**

**Attachment 3**

**MECHANICAL SHOCK ARRESTOR**  
**FINAL REPORT**

**TURKEY POINT**  
**UNIT 3**  
**2007**  
**CYLCE 23 REFUELING OUTAGE**

**Commercial Service Date: December 14, 1972**

**Prepared by:**

**Inservice Inspection Group  
Florida Power & Light  
Turkey Point Nuclear  
9760 S.W. 344 St.  
Florida City, FL  
33035**

Melba Campbell 11/5/07  
Originated by: Melba Campbell Date

Ricky Spellman 11-5-07  
Reviewed by: Ricky Spellman Date

Ed Lyons 11/13/07  
Approved by: Ed Lyons Date

Mechanical shock arrestors (snubbers) were visually inspected/handstroked and functionally tested under purchase order #00081442 by Basic-PSA personnel in accordance with the following plant procedures:

O-OSP-105.1

O-OSP-105.2

A technical specification visual inspection, ASME Section XI VT-3 and a hand stroking was performed at the following tag locations:

3-1001	3-1002	3-1004	3-1005	3-1006	3-1007
3-1008	3-1009	3-1011	3-1013	3-1015	3-1016
3-1017	3-1018	3-1019	3-1020	3-1021	3-1022
3-1023	3-1024	3-1026	3-1027	3-1028	3-1029
3-1094	3-1123	3-1124	3-1126	3-1127	3-1128
3-1129	3-113	3-1132	3-1133	3-1134	3-1135

A technical specification visual inspection, ASME Section XI VT-3, **NO HAND STROKE**, and a functional test was performed at the following tag locations:

<i>3-1000</i>	<i>3-1003</i>	<i>3-1014</i>	<i>3-1025</i>	<i>3-1030</i>	<i>3-1075</i>
<i>3-1083</i>	<i>3-1102</i>				
<b>3-1010</b>	<b>3-1012</b>	<b>3-1125</b>	<b>3-1131</b>		

*Italics indicates SR Sample snubbers*  
**Bold indicates QR Sample snubbers**  
Underline indicates previous rebuilds

The following snubbers located in the Pressurizer Cubical are separate from the sample plan. These snubbers are tested for prevented maintenance. A technical specification visual inspection, ASME Section XI VT-3 and a hand stroke was performed at the following tag locations 3-1043, 3-1044, 3-1045, 3-1046, 3-1047, and 3-1050. Upon completion of the technical specification visual inspection and ASME Section XI VT-3 snubbers 3-1048, 3-1049, and 3-1060 were changed out with previously rebuilt and functionally tested snubbers. The removed snubbers were rebuilt and functionally tested and will be utilized as spares for future outages.

**TURKEY POINT NUCLEAR PLANT  
OUTAGE SUMMARY REPORT  
UNIT 3 C23 OUTAGE REPORT WO # 36019760-01**

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY					
												FUNCTIONAL TEST PERFORMED?	STATUS	TENSION	COMPRESSION	CRITERIA	
3-1000	18015	N/A	9/9/2007	PASS	09/09/07	PASS	12.875"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension - SAT. Snubber removed and transported to the test trailer for functional test. Functional test was SAT. Snubber to extension piece was torqued to 45 in lbs using torque wrench M1010 (cal due date 2/20/08). Lubricated load pin and spherical bearings with neo-lube UTC 24987-3. Re-installed snubber. As-left visual inspection - SAT.	FUNCTIONAL TEST PERFORMED?	YES				
												STATUS	PASS	(N/A IF NOT PERFORMED)			
														TENSION	COMPRESSION	CRITERIA	
												TEST 1	6.1	9.2	30.0		
												TEST 2	7.8	10.2	30.0		
												TEST 3	0.009	0.008	.02g's		
												TEST 4	7.5	9.7	30.0		
												TEST SAMPLE?	YES	SAMPLE CLASS SR			
												DATE REINSTALLED:		09/09/07			
3-1001	27095	N/A	9/9/2007	PASS		N/A	17.125"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED?	NO				
												STATUS	N/A	(N/A IF NOT PERFORMED)			
														TENSION	COMPRESSION	CRITERIA	
												TEST 1					
												TEST 2					
												TEST 3					
												TEST 4					
												TEST SAMPLE?	NO	SAMPLE CLASS N/A			
												DATE REINSTALLED:					

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1002	104	N/A	9/9/2007	PASS		N/A	17.312"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:
3-1003	29625	N/A	9/10/2007	PASS	09/10/07	PASS	15.75"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension -SAT. Snubber removed and transported to the test trailer for functional test. Functional test was SAT. Lubricated load pin and spherical bearings with neo-lube UTC # 24984-3. Snubber to Extension piece was torqued to 120 in. lbs. using torque wrench M1008 (cal due date 3/1/08.). Reinstalled snubber. As-left visual inspection - SAT.	FUNCTIONAL TEST PERFORMED? YES STATUS PASS (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 12.8 21.6 120.0 TEST 2 24.6 36.7 120.0 TEST 3 0.004 0.004 .02g's TEST 4 39.3 49.1 120.0 TEST SAMPLE? YES SAMPLE CLASS SR DATE REINSTALLED: 09/11/07

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1004	101	N/A	9/9/2007	PASS		N/A	17.375"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 .	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:
3-1005	11931	N/A	9/5/2007	PASS		N/A	26.250"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension- SAT, handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 , lubricated load stud threads with N-5000-UTC # 24974-3. Torqued load stud nuts to 150 ft. lbs. using torque wrench M999, cal due date 11/25/07.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1006	6494	N/A	9/4/2007	PASS		N/A	26.750"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 , lubricated load stud threads with N-5000-UTC # 24974-3. Torqued load stud nuts to 150 ft. lbs. using torque wrench M999, cal due date 11/25/07.	<p>FUNCTIONAL TEST PERFORMED? NO</p> <p>STATUS N/A (N/A IF NOT PERFORMED)</p> <p>TENSION COMPRESSION CRITERIA</p> <p>TEST 1</p> <p>TEST 2</p> <p>TEST 3</p> <p>TEST 4</p> <p>TEST SAMPLE? NO SAMPLE CLASS N/A</p> <p>DATE REINSTALLED:</p>
3-1007	42387	N/A	9/4/2007	PASS		N/A	26.750"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 , lubricated load stud threads with N-5000-UTC # 24974-3. Torqued load stud nuts to 150 ft. lbs. using torque wrench M999, cal due date 11/25/07.	<p>FUNCTIONAL TEST PERFORMED? NO</p> <p>STATUS N/A (N/A IF NOT PERFORMED)</p> <p>TENSION COMPRESSION CRITERIA</p> <p>TEST 1</p> <p>TEST 2</p> <p>TEST 3</p> <p>TEST 4</p> <p>TEST SAMPLE? NO SAMPLE CLASS N/A</p> <p>DATE REINSTALLED:</p>

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1008	8084	N/A	9/3/2007	PASS		N/A	27.50"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 , lubricated load stud threads with N-5000-UTC # 24974-3. Torqued load stud nuts to 150 ft. lbs. using torque wrench M999, cal due date 11/25/07.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:
3-1009	10542	N/A	9/5/2007	PASS		N/A	26.750"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 , lubricated load stud threads with N-5000-UTC # 24974-3. Torqued load stud nuts to 150 ft. lbs. using torque wrench M999, cal due date 11/25/07.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T
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**INSPECTION SUMMARY**

**FUNCTIONAL TEST SUMMARY**

3-1010	6530	N/A	9/4/2007	PASS	09/04/07	PASS	26.125"	PASS	NO	N/A
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Visual Inspection -SAT, "L" Dimension acceptable. Snubber removed and transported to the test trailer for functional test. Snubber functional test was SAT and re-greased. Lubricated load pin and spherical bearings with neo-lube UTC # 24984-3. Re-installed snubber, Torqued load studs to 150 ft lbs using torque wrench M999 (cal due date 11/25/07). As-left visual inspection - SAT.

**FUNCTIONAL TEST PERFORMED?** YES  
**STATUS** PASS (N/A IF NOT PERFORMED)

	TENSION	COMPRESSION	CRITERIA
TEST 1	183.6	132.8	1000.0
TEST 2	209.3	158.0	1000.0
TEST 3	0.005	0.004	.02g/s
TEST 4	229.7	154.8	1000.0

**TEST SAMPLE?** YES **SAMPLE CLASS** QR  
**DATE REINSTALLED:** 09/08/07

3-1011	12376	N/A	9/3/2007	PASS		N/A	20.125"	PASS	YES	PASS
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Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.

**FUNCTIONAL TEST PERFORMED?** NO  
**STATUS** N/A (N/A IF NOT PERFORMED)

	TENSION	COMPRESSION	CRITERIA
TEST 1			
TEST 2			
TEST 3			
TEST 4			

**TEST SAMPLE?** NO **SAMPLE CLASS** N/A  
**DATE REINSTALLED:**

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY																				
3-1012	8086	N/A	9/3/2007	PASS	09/03/07	PASS	27.0"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension -SAT, Functional test -SAT. Snubber was internally inspected, the results indicated it needed to be re-greased and capstan spring replaced. As left functionally test-SAT. Reinstalled Snubber lubricated load studs and spherical bearing with N-5000-UTC # 24974-3. Torqued load stud nuts to 150 ft. lbs. Using torque wrench M999, cal due date 11/25/07. As left visual inspection was SAT.	<p>FUNCTIONAL TEST PERFORMED? YES</p> <p>STATUS PASS (N/A IF NOT PERFORMED)</p> <table border="1"> <thead> <tr> <th></th> <th>TENSION</th> <th>COMPRESSION</th> <th>CRITERIA</th> </tr> </thead> <tbody> <tr> <td>TEST 1</td> <td>47.1</td> <td>112.4</td> <td>1000.0</td> </tr> <tr> <td>TEST 2</td> <td>84.8</td> <td>147.2</td> <td>1000.0</td> </tr> <tr> <td>TEST 3</td> <td>0.005</td> <td>0.007</td> <td>.02g's</td> </tr> <tr> <td>TEST 4</td> <td>123.2</td> <td>114.3</td> <td>1000.0</td> </tr> </tbody> </table> <p>TEST SAMPLE? YES SAMPLE CLASS QR</p> <p>DATE REINSTALLED: 09/08/07</p>		TENSION	COMPRESSION	CRITERIA	TEST 1	47.1	112.4	1000.0	TEST 2	84.8	147.2	1000.0	TEST 3	0.005	0.007	.02g's	TEST 4	123.2	114.3	1000.0
	TENSION	COMPRESSION	CRITERIA																													
TEST 1	47.1	112.4	1000.0																													
TEST 2	84.8	147.2	1000.0																													
TEST 3	0.005	0.007	.02g's																													
TEST 4	123.2	114.3	1000.0																													
3-1013	33624	N/A	9/9/2007	PASS	N/A	10.375"	PASS	YES	PASS		Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 449261-3.	<p>FUNCTIONAL TEST PERFORMED? NO</p> <p>STATUS N/A (N/A IF NOT PERFORMED)</p> <table border="1"> <thead> <tr> <th></th> <th>TENSION</th> <th>COMPRESSION</th> <th>CRITERIA</th> </tr> </thead> <tbody> <tr> <td>TEST 1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TEST 2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TEST 3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TEST 4</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>TEST SAMPLE? NO SAMPLE CLASS N/A</p> <p>DATE REINSTALLED:</p>		TENSION	COMPRESSION	CRITERIA	TEST 1				TEST 2				TEST 3				TEST 4			
	TENSION	COMPRESSION	CRITERIA																													
TEST 1																																
TEST 2																																
TEST 3																																
TEST 4																																

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY					
												FUNCTIONAL TEST PERFORMED?	STATUS	TENSION	COMPRESSION	CRITERIA	
3-1014	1722	N/A	9/11/2007	PASS	09/11/07	PASS	8.750"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension - SAT. Snubber was removed and transported to the test trailer for functional test. Functional test was SAT. Reinstalled Snubber lubricated load pin and spherical bearings with neo-lube UTC # 24984-3. As-left visual inspection was SAT.	FUNCTIONAL TEST PERFORMED?	YES				
												STATUS	PASS	(N/A IF NOT PERFORMED)			
															TENSION	COMPRESSION	CRITERIA
												TEST 1	2.3		4.2		13.0
												TEST 2	2.3		5.4		13.0
												TEST 3	0.011		0.015		.02g's
												TEST 4	2.4		4.8		13.0
												TEST SAMPLE?	YES		SAMPLE CLASS	SR	
												DATE REINSTALLED:					09/11/07
3-1015	18009	N/A	9/10/2007	PASS		N/A	11.875"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED?	NO				
												STATUS	N/A	(N/A IF NOT PERFORMED)			
															TENSION	COMPRESSION	CRITERIA
												TEST 1					
												TEST 2					
												TEST 3					
												TEST 4					
												TEST SAMPLE?	NO		SAMPLE CLASS	N/A	
												DATE REINSTALLED:					

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY	
3-1016	18012	N/A	9/10/2007	PASS			N/A	12.00"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:
3-1017	18003	N/A	9/10/2007	PASS			N/A	13.750"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY	
												FUNCTIONAL TEST PERFORMED?	NO
3-1018	18013	N/A	9/10/2007	PASS	N/A	13.50"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED?	NO	
											STATUS	N/A (N/A IF NOT PERFORMED)	
											TENSION COMPRESSION CRITERIA		
											TEST 1		
											TEST 2		
											TEST 3		
											TEST 4		
											TEST SAMPLE?	NO SAMPLE CLASS N/A	
											DATE REINSTALLED:		
3-1019	17425	N/A	9/11/2007	PASS	N/A	17.375"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 449261-3.	FUNCTIONAL TEST PERFORMED?	NO	
											STATUS	N/A (N/A IF NOT PERFORMED)	
											TENSION COMPRESSION CRITERIA		
											TEST 1		
											TEST 2		
											TEST 3		
											TEST 4		
											TEST SAMPLE?	NO SAMPLE CLASS N/A	
											DATE REINSTALLED:		

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1020	103	N/A	9/11/2007	PASS		N/A	17.062"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 449261-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:
3-1021	16725	N/A	9/11/2007	PASS		N/A	8.250"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L-DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1022	18006	N/A	9/11/2007	PASS		N/A	13.375	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:
3-1023	23273	N/A	9/11/2007	PASS		N/A	12.875"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1024	17427	N/A	9/11/2007	PASS		N/A	16.625	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 TEST 2 TEST 3 TEST 4 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>
3-1025	100	N/A	9/11/2007	PASS	09/11/07	PASS	16.750"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension - SAT. Snubber removed from extension piece and transported to the test trailer for functional test. Functional test was SAT. Torqued snubber to transition tube using torque wrench M1010 to 120 in lbs (cal due date 2/20/08). Lubricated load pin and spherical bearings with neo-lube UTC 24984-3. Re-installed snubber and performed as-left visual inspection - SAT.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 14.7 10.2 120.0 TEST 2 17.9 19.7 120.0 TEST 3 0.007 0.003 .02g's TEST 4 14.9 21.0 120.0 <b>TEST SAMPLE?</b> YES <b>SAMPLE CLASS</b> SR <b>DATE REINSTALLED:</b> 09/11/07

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1026	12394	N/A	9/12/2007	PASS		NO	19.0	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS NO (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:
3-1027	16237	N/A	9/12/2007	PASS		NO	21.0"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube. UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS NO (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1028	11135	N/A	9/11/2007	PASS	NO	19.75"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 .	FUNCTIONAL TEST PERFORMED? NO STATUS NO (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	
3-1029	11330	N/A	9/11/2007	PASS	NO	21.625	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 .	FUNCTIONAL TEST PERFORMED? NO STATUS NO (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1030	11121	N/A	9/11/2007	PASS	09/11/07	PASS	21.125	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension - SAT. Snubber removed from extension piece and transported to the test trailer for functional test. Functional test was SAT. Torqued snubber to transition tube using torque wrench M631 to 37 in lbs (cal due date 2/24/08). Lubricated load pin and spherical bearings with neo-lube UTC 24984-3. Re-installed snubber and performed as-left visual inspection - SAT.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> <b>TEST 1</b> 35.2 22.4 300.0 <b>TEST 2</b> 44.6 34.9 300.0 <b>TEST 3</b> 0.007 0.008 .02g's <b>TEST 4</b> 28.7 41.8 300.0 <b>TEST SAMPLE?</b> YES <b>SAMPLE CLASS</b> SR <b>DATE REINSTALLED:</b> 09/12/07
3-1043	17900	N/A	9/6/2007	PASS	N/A	22.062"	PASS	YES	PASS		Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 .	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> <b>TEST 1</b> <b>TEST 2</b> <b>TEST 3</b> <b>TEST 4</b> <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1044	11125	N/A	9/6/2007	PASS	N/A	21.562"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? STATUS N/A TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	NO (N/A IF NOT PERFORMED)
3-1045	17189	N/A	9/6/2007	PASS	N/A	21.50"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? STATUS N/A TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	NO (N/A IF NOT PERFORMED)

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1046	17903	N/A	9/6/2007	PASS	N/A	20.75"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 .	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 TEST 2 TEST 3 TEST 4 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>	
3-1047	17906	N/A	9/6/2007	PASS	N/A	20.938"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3 .	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 TEST 2 TEST 3 TEST 4 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>	

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY																				
3-1048	16238	3932	9/6/2007	PASS	09/08/07	PASS	19 1/2"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Snubber SN 16238 was removed and replaced with tested spare SN 3932 as a scheduled swap out. Extension piece was torqued to 37 ft. lbs using torque wrench M631, cal due date 2/24/08. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3. SN 16238 was torn down, re-built, functionally tested and will be stored as a spare.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <table border="1"> <thead> <tr> <th></th> <th>TENSION</th> <th>COMPRESSION</th> <th>CRITERIA</th> </tr> </thead> <tbody> <tr> <td>TEST 1</td> <td>12.1</td> <td>33.1</td> <td>300.0</td> </tr> <tr> <td>TEST 2</td> <td>29.9</td> <td>37.1</td> <td>300.0</td> </tr> <tr> <td>TEST 3</td> <td>0.009</td> <td>0.005</td> <td>.02g's</td> </tr> <tr> <td>TEST 4</td> <td>27.5</td> <td>40.8</td> <td>300.0</td> </tr> </tbody> </table> <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b> 09/06/07		TENSION	COMPRESSION	CRITERIA	TEST 1	12.1	33.1	300.0	TEST 2	29.9	37.1	300.0	TEST 3	0.009	0.005	.02g's	TEST 4	27.5	40.8	300.0
	TENSION	COMPRESSION	CRITERIA																													
TEST 1	12.1	33.1	300.0																													
TEST 2	29.9	37.1	300.0																													
TEST 3	0.009	0.005	.02g's																													
TEST 4	27.5	40.8	300.0																													
3-1049	11461	3919	9/6/2007	PASS	09/08/07	PASS	20 1/2"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Snubber SN 11461 was removed and replaced with tested spare SN 3919 as a scheduled swap out. Extension piece was torqued to 37 ft. lbs using torque wrench M631, cal due date 2/24/08. Lubricated load pins and spherical bearings with neo-lube UTC # 24984-3. SN 11461 was torn down, re-built, functionally tested and will be stored as a spare.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <table border="1"> <thead> <tr> <th></th> <th>TENSION</th> <th>COMPRESSION</th> <th>CRITERIA</th> </tr> </thead> <tbody> <tr> <td>TEST 1</td> <td>23.3</td> <td>18.6</td> <td>300.0</td> </tr> <tr> <td>TEST 2</td> <td>29.9</td> <td>30.4</td> <td>300.0</td> </tr> <tr> <td>TEST 3</td> <td>0.008</td> <td>0.009</td> <td>.02g's</td> </tr> <tr> <td>TEST 4</td> <td>27.4</td> <td>34.4</td> <td>300.0</td> </tr> </tbody> </table> <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b> 09/06/07		TENSION	COMPRESSION	CRITERIA	TEST 1	23.3	18.6	300.0	TEST 2	29.9	30.4	300.0	TEST 3	0.008	0.009	.02g's	TEST 4	27.4	34.4	300.0
	TENSION	COMPRESSION	CRITERIA																													
TEST 1	23.3	18.6	300.0																													
TEST 2	29.9	30.4	300.0																													
TEST 3	0.008	0.009	.02g's																													
TEST 4	27.4	34.4	300.0																													

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1050	11446	N/A	9/6/2007	PASS	N/A	22.250"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 TEST 2 TEST 3 TEST 4 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>	
3-1060	19728	27092	9/6/2007	PASS	09/03/07	PASS	18 1/4"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Snubber SN 19728 was removed and replaced with tested spare SN 27092 as a scheduled swap out. Extension piece was torqued to 120 in. lbs using torque wrench M1005, cal due date 10/28/07. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3. SN 19728 was torn down, re-built, functionally tested and will be stored as a spare.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 10.3 18.7 120.0 TEST 2 14.3 19.5 120.0 TEST 3 0.005 0.004 .02g's TEST 4 12.3 20.5 120.0 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b> 09/06/07

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY																				
3-1075	18072	N/A	9/10/2007	PASS	09/10/07	PASS	8.687"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension -SAT. Snubber removed and transported to the test trailer for functional test. Functional test was SAT. Lubricated load pin and spherical bearings with neo-lube UTC # 24984-3. Re-installed snubber, as-left visual inspection was SAT.	<p><b>FUNCTIONAL TEST PERFORMED?</b> YES</p> <p><b>STATUS</b> PASS (N/A IF NOT PERFORMED)</p> <table border="1"> <thead> <tr> <th></th> <th>TENSION</th> <th>COMPRESSION</th> <th>CRITERIA</th> </tr> </thead> <tbody> <tr> <td>TEST 1</td> <td>2.1</td> <td>4.2</td> <td>13.0</td> </tr> <tr> <td>TEST 2</td> <td>2.5</td> <td>4.6</td> <td>13.0</td> </tr> <tr> <td>TEST 3</td> <td>0.008</td> <td>0.008</td> <td>.02g's</td> </tr> <tr> <td>TEST 4</td> <td>2.6</td> <td>4.5</td> <td>13.0</td> </tr> </tbody> </table> <p><b>TEST SAMPLE?</b> YES <b>SAMPLE CLASS SR</b></p> <p><b>DATE REINSTALLED:</b> 09/10/07</p>		TENSION	COMPRESSION	CRITERIA	TEST 1	2.1	4.2	13.0	TEST 2	2.5	4.6	13.0	TEST 3	0.008	0.008	.02g's	TEST 4	2.6	4.5	13.0
	TENSION	COMPRESSION	CRITERIA																													
TEST 1	2.1	4.2	13.0																													
TEST 2	2.5	4.6	13.0																													
TEST 3	0.008	0.008	.02g's																													
TEST 4	2.6	4.5	13.0																													
3-1083	11925	N/A	9/13/2007	PASS	09/13/07	PASS	25.50"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension -SAT. Snubber removed and transported to the test trailer for functional test. Functional test was SAT. Lubricated load pin and spherical bearings with neo-lube UTC # 24984-3. Re-installed snubber, as-left visual inspection was SAT.	<p><b>FUNCTIONAL TEST PERFORMED?</b> YES</p> <p><b>STATUS</b> PASS (N/A IF NOT PERFORMED)</p> <table border="1"> <thead> <tr> <th></th> <th>TENSION</th> <th>COMPRESSION</th> <th>CRITERIA</th> </tr> </thead> <tbody> <tr> <td>TEST 1</td> <td>78.6</td> <td>230.0</td> <td>1000.0</td> </tr> <tr> <td>TEST 2</td> <td>105.3</td> <td>256.6</td> <td>1000.0</td> </tr> <tr> <td>TEST 3</td> <td>0.004</td> <td>0.004</td> <td>.02g's</td> </tr> <tr> <td>TEST 4</td> <td>96.8</td> <td>236.9</td> <td>1000.0</td> </tr> </tbody> </table> <p><b>TEST SAMPLE?</b> YES <b>SAMPLE CLASS SR</b></p> <p><b>DATE REINSTALLED:</b> 09/13/07</p>		TENSION	COMPRESSION	CRITERIA	TEST 1	78.6	230.0	1000.0	TEST 2	105.3	256.6	1000.0	TEST 3	0.004	0.004	.02g's	TEST 4	96.8	236.9	1000.0
	TENSION	COMPRESSION	CRITERIA																													
TEST 1	78.6	230.0	1000.0																													
TEST 2	105.3	256.6	1000.0																													
TEST 3	0.004	0.004	.02g's																													
TEST 4	96.8	236.9	1000.0																													

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1094	27081	N/A	9/10/2007	PASS	N/A	15.125"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 TEST 2 TEST 3 TEST 4 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>	
3-1102	29451	N/A	9/10/2007	PASS	09/10/07	PASS	11.125"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension acceptable. Snubber removed and transported to the test trailer for functional test. Functional test was SAT. Lubricated load pin and spherical bearings with neo-lube UTC # 24984-3. Re-installed snubber, as-left visual inspection was SAT.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 1.6 5.0 7.0 TEST 2 3.5 5.3 7.0 TEST 3 0.008 0.009 .02g's TEST 4 3.6 5.0 7.0 <b>TEST SAMPLE?</b> YES <b>SAMPLE CLASS</b> SR <b>DATE REINSTALLED:</b> 09/10/07

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T
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**INSPECTION SUMMARY**

**FUNCTIONAL TEST SUMMARY**

3-1123	6484	N/A	9/8/2007	PASS		N/A	27.75"	PASS	YES	PASS
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Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.

FUNCTIONAL TEST PERFORMED? NO  
STATUS N/A (N/A IF NOT PERFORMED)

**TENSION COMPRESSION CRITERIA**

- TEST 1
- TEST 2
- TEST 3
- TEST 4

TEST SAMPLE? NO SAMPLE CLASS N/A

DATE REINSTALLED:

3-1124	12991	N/A	9/8/2007	PASS		N/A	27.75"	PASS	YES	PASS
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Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.

FUNCTIONAL TEST PERFORMED? NO  
STATUS N/A (N/A IF NOT PERFORMED)

**TENSION COMPRESSION CRITERIA**

- TEST 1
- TEST 2
- TEST 3
- TEST 4

TEST SAMPLE? NO SAMPLE CLASS N/A

DATE REINSTALLED:

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1125	12986	N/A	9/7/2007	PASS	09/11/07	PASS	26.625"	PASS	NO	N/A	Visual Inspection -SAT, "L" Dimension - SAT. Snubber removed from extension piece and transported to the test trailer for functional test. Functional test was SAT. Torqued snubber to transition tube using torque wrench M876 to 150 ft lbs (cal due date 3/2/08). Lubricated load pin and spherical bearings with neolube UTC 24987-3. Re-installed snubber and performed as-left visual inspection - SAT.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> <b>TEST 1</b> 83.6 177.6 1000.0 <b>TEST 2</b> 139.7 221.1 1000.0 <b>TEST 3</b> 0.003 0.006 .02g's <b>TEST 4</b> 127.4 245.8 1000.0 <b>TEST SAMPLE?</b> YES <b>SAMPLE CLASS</b> QR <b>DATE REINSTALLED:</b> 09/12/07
3-1126	12989	N/A	9/7/2007	PASS	N/A	N/A	26.937"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with N-5000 UTC # 24974-3.	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> <b>TEST 1</b> <b>TEST 2</b> <b>TEST 3</b> <b>TEST 4</b> <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1127	12990	N/A	9/8/2007	PASS	N/A	27.25"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with N-5000 UTC # 24974-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	
3-1128	12985	N/A	9/4/2007	PASS	N/A	27.0"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Deviation report #TP3-07-001 was generated due to heavy corrosion inside the support structure. CR 2007-26873 had previously been generated by Eng to address this concern. Lubricated load pin and spherical bearing with neolube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1129	12987	N/A	9/4/2007	PASS	N/A	26.0"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	<b>FUNCTIONAL TEST PERFORMED?</b> NO <b>STATUS</b> N/A (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 TEST 2 TEST 3 TEST 4 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b>	
3-1130	17840	N/A	9/4/2007	PASS	09/08/07	PASS	19.75"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. The snubber was removed, transported to the test trailer for a functional test (SAT) for information because the companion snubber tag 3-1131 failed the functional test. The snubber was re-installed and the load pins and spherical bearings were lubricated with neo-lube UTC # 24984-3 The transition tube bolting was torqued to 37 ft. lbs using torque wrench M635 (cal due date 12/6/07). Re-installed and performed as-left visual inspection-SAT.	<b>FUNCTIONAL TEST PERFORMED?</b> YES <b>STATUS</b> PASS (N/A IF NOT PERFORMED) <b>TENSION COMPRESSION CRITERIA</b> TEST 1 78.9 110.3 300.0 TEST 2 78.9 112.1 300.0 TEST 3 0.007 0.006 .02g's TEST 4 62.2 81.6 300.0 <b>TEST SAMPLE?</b> NO <b>SAMPLE CLASS</b> N/A <b>DATE REINSTALLED:</b> 09/09/07

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T
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**INSPECTION SUMMARY**

**FUNCTIONAL TEST SUMMARY**

3-1131	17837	16231	9/7/2007	PASS	09/08/07	FAIL	19.875°	PASS	NO	N/A
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Visual Inspection -VT-3 (IWF) inspection UNSAT (pipe spring movement of 7/16"), "L" Dimension -SAT. The snubber was removed, transported to the test trailer for a functional test (UNSAT). The snubber was replaced with a tested spare.

FUNCTIONAL TEST PERFORMED? YES

STATUS	TENSION	COMPRESSION	CRITERIA
FAIL			(N/A IF NOT PERFORMED)
TEST 1	1097.3	1167.4	300.0
TEST 2	1097.3	1167.4	300.0
TEST 3	0.004	0.020	.02g's
TEST 4	1524.5	1308.4	300.0

TEST SAMPLE? YES SAMPLE CLASS QR  
DATE REINSTALLED: N/A

3-1131	16231	N/A	9/13/2007	PASS	09/09/07	PASS	19.625"	PASS	NO	N/A
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This S/N 16231 was a replacement for S/N 17837 a QR sample which failed the functional test. The Snubber was torqued to transition tube using torque wrench M635 (cal due date 12/6/07). An as left functional test was performed after re-greasing-SAT. One load pin was damaged during removal and was replaced. Load pins and spherical bearings were lubricated with neo-lube UTC # 24984-3. Installed the snubber and performed an as- left visual inspection-SAT.

FUNCTIONAL TEST PERFORMED? YES

STATUS	TENSION	COMPRESSION	CRITERIA
PASS			(N/A IF NOT PERFORMED)
TEST 1	29.2	36.5	300.0
TEST 2	40.2	53.1	300.0
TEST 3	0.005	0.003	.02g's
TEST 4	27.5	47.6	300.0

TEST SAMPLE? NO SAMPLE CLASS N/A  
DATE REINSTALLED: 09/13/07

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
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3-1132	17838	N/A	9/8/2007	PASS	N/A	19.125"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? STATUS N/A	NO (N/A IF NOT PERFORMED)
TENSION COMPRESSION CRITERIA												
TEST 1												
TEST 2												
TEST 3												
TEST 4												
TEST SAMPLE? NO SAMPLE CLASS N/A												
DATE REINSTALLED:												

3-1133	13695	N/A	9/8/2007	PASS	N/A	19.625"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension - SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? STATUS N/A	NO (N/A IF NOT PERFORMED)
TENSION COMPRESSION CRITERIA												
TEST 1												
TEST 2												
TEST 3												
TEST 4												
TEST SAMPLE? NO SAMPLE CLASS N/A												
DATE REINSTALLED:												

TAG #	SERIAL #	REPLACE- MENT S/N	VISUAL INSPECT DATE	S T A T	FUNCTIONAL INSPECT DATE	S T A T	L DIMEN	S T A T	HAND- STROKE ?	S T A T	INSPECTION SUMMARY	FUNCTIONAL TEST SUMMARY
3-1134	17836	N/A	9/8/2007	PASS	N/A	19.125"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	
3-1135	17839	N/A	9/8/2007	PASS	N/A	19.250"	PASS	YES	PASS	Visual Inspection -SAT, "L" Dimension -SAT, Handstroke - SAT. Lubricated load pin and spherical bearing with neo-lube UTC # 24984-3.	FUNCTIONAL TEST PERFORMED? NO STATUS N/A (N/A IF NOT PERFORMED) TENSION COMPRESSION CRITERIA TEST 1 TEST 2 TEST 3 TEST 4 TEST SAMPLE? NO SAMPLE CLASS N/A DATE REINSTALLED:	

**BASIC-PSA, INC.**

# **FINAL REPORT**

**Florida Power & Light  
Turkey Point Nuclear Plant Unit # 3  
Client's P.O. # 00081442 Rel. 009  
BPI Job # FN2492**

**Florida Power & Light  
Turkey Point Nuclear Plant Unit # 3  
Snubber Functional Testing & Overhauls  
Fall 2007**

PREPARED BY:

*Morgan A. Halladay*

DATE:

*9/25/07*

REVIEWED BY:

*Robert Sabina*

DATE:

*10-3-07*

# CERTIFICATE OF COMPLIANCE

Testing and Overhaul activities described in this  
Final Report were Conducted in accordance with the  
Project Plan PP-07-005

And the applicable requirements of Florida Power &  
Light Purchase Order # 00081442 Rel. 009

  
\_\_\_\_\_  
Manager of Quality Assurance

10-3-07  
Date

# CERTIFICATE OF COMPLIANCE

VT-3 inspection activities described in this  
Final Report were conducted in accordance with the  
Project Plan PP-07-005  
and the applicable requirements of Florida Power &  
Light Purchase Order # 00081442 Rel. 009

  
\_\_\_\_\_  
Manager of Quality Assurance

10-3-07  
Date

## **ABSTRACT**

**To satisfy the requirements of ASME Section XI and Turkey Point Power Plant Unit # 3 Technical Specifications, functional testing of Basic- PSA, Inc. snubbers were performed during Turkey Point Power Plant's Unit # 3 Fall 2007 Outage.**

**Functional tests and failure analysis were accomplished only on those snubbers designated by the Site Representative. Functional testing using Basic-PSA, Inc. (BPI) on-site mobile test equipment confirmed the required operational parameters.**

**All activities performed by Basic-PSA, Inc. at Turkey Point Power Plant were performed by qualified and certified individuals using calibrated tools, instruments and equipment.**

## INTRODUCTION

Florida Power & Light, Turkey Point Nuclear Power Plant Unit # 3 was shut down for a scheduled outage in September, 2007. During this Outage, functional testing activities were performed by Basic-PSA, Inc. personnel in accordance with the BPI Project Plan, PP-07-005 which implemented the requirements of Turkey Point Nuclear Plant Technical Specifications and ASME Section XI.

This report summarizes the on-site activities performed by Basic-PSA, Inc.

All original data regarding functional tests and failure analysis were presented to the customer's representative prior to the conclusion of the on-site activities; these documents (which are incorporated by reference), the Project Plan, the Snubber Test Reports and this summary report comprise the BPI Final Report.

Personnel performing testing activities are qualified and certified in accordance with the BPI QA manual. A copy of all personnel certifications is provided in the Project Plan.

Basic-PSA Test equipment and tools used at Turkey Point Nuclear Plant were calibrated and traceable to NIST. A copy of all calibration certificates for equipment provided by Basic-PSA, Inc. is included in the Project Plan.

## **SCOPE OF SERVICES**

The original scope for testing consisted of fifty-seven (57) snubbers.

These snubbers were identified by the customer as needing to be tested.

Those with a degraded condition were disassembled, re-greased, rebuilt and then as-left tested.

## FUNCTIONAL TESTING

Of the fifty-seven (57) snubbers at Turkey Point Unit # 3 tested, fifty-seven (57) were Basic-PSA, Inc. mechanical snubbers.

### TEST RESULTS

Tag Number	Exam Number	Serial Number	Mfg./Cap.	Results
3-1000	001-TP3-07-1000	18015	PSA-1	AF SAT
3-1001	002-TP3-07-1001	27095	PSA-3	HS SAT
3-1002	003-TP3-07-1002	104	PSA-3	HS SAT
3-1003	004-TP3-07-1003	29625	PSA-3	AF SAT
3-1004	005-TP3-07-1004	101	PSA-3	HS SAT
3-1005	006-TP3-07-1005	11931	PSA-35	HS SAT
3-1006	007-TP3-07-1006	6494	PSA-35	HS SAT
3-1007	008-TP3-07-1007	42387	PSA-35	HS SAT
3-1008	009-TP3-07-1008	8084	PSA-35	HS SAT
3-1009	010-TP3-07-1009	10542	PSA-35	HS SAT
3-1010	011-TP3-07-1010	6530	PSA-35	AF SAT AL SAT
3-1011	012-TP3-07-1011	12376	PSA-10	HS SAT
3-1012	013-TP3-07-1012	8086	PSA-35	AF SAT AL SAT
3-1013	014-TP3-07-1013	33624	PSA-1/4	HS SAT
3-1014	015-TP3-07-1014	1722	PSA-1/2	AF SAT
3-1015	016-TP3-07-1015	18009	PSA-1	HS SAT
3-1016	017-TP3-07-1016	18012	PSA-1	HS SAT
3-1017	018-TP3-07-1017	18003	PSA-1	HS SAT
3-1018	019-TP3-07-1018	18013	PSA-1	HS SAT
3-1019	020-TP3-07-1019	17425	PSA-3	HS SAT
3-1020	021-TP3-07-1020	103	PSA-3	HS SAT
3-1021	022-TP3-07-1021	16725	PSA-1/2	HS SAT
3-1022	023-TP3-07-1022	18006	PSA-1	HS SAT
3-1023	024-TP3-07-1023	23273	PSA-1	HS SAT
3-1024	025-TP3-07-1024	17427	PSA-3	HS SAT
3-1025	026-TP3-07-1025	100	PSA-3	AF SAT
3-1026	027-TP3-07-1026	12394	PSA-10	HS SAT

Tag Number	Exam Number	Serial Number	Mfg./Cap.	Results
3-1027	028-TP3-07-1027	16237	PSA-10	HS SAT
3-1028	029-TP3-07-1028	11135	PSA-10	HS SAT
3-1029	030-TP3-07-1029	11330	PSA-10	HS SAT
3-1030	031-TP3-07-1030	11121	PSA-10	AF SAT
3-1043	032-TP3-07-1043	17900	PSA-10	HS SAT
3-1044	033-TP3-07-1044	11125	PSA-10	HS SAT
3-1045	034-TP3-07-1045	17189	PSA-10	HS SAT
3-1046	035-TP3-07-1046	17903	PSA-10	HS SAT
3-1047	036-TP3-07-1047	17906	PSA-10	HS SAT
3-1048	037-TP3-07-1048	16238	PSA-10	HS SAT
3-1049	038-TP3-07-1049	11461	PSA-10	HS SAT
3-1050	039-TP3-07-1050	11446	PSA-10	HS SAT
3-1060	040-TP3-07-1060	19728	PSA-3	HS SAT
3-1075	041-TP3-07-1075	18072	PSA-1/2	AF SAT
3-1083	042-TP3-07-1083	11925	PSA-35	AF SAT
3-1094	043-TP3-07-1094	27081	PSA-3	HS SAT
3-1102	044-TP3-07-1102	29451	PSA-1/4	AF SAT
3-1123	045-TP3-07-1123	6484	PSA-35	HS SAT
3-1124	046-TP3-07-1124	12991	PSA-35	HS SAT
3-1125	047-TP3-07-1125	12986	PSA-35	AF SAT
3-1126	048-TP3-07-1126	12989	PSA-35	HS SAT
3-1127	049-TP3-07-1127	12990	PSA-35	HS SAT
3-1128	050-TP3-07-1128	12985	PSA-35	HS SAT
3-1129	051-TP3-07-1129	12987	PSA-35	HS SAT
3-1130	052-TP3-07-1130	17840	PSA-10	AF SAT
3-1131	053-TP3-07-1131	17837	PSA-10	AF UNSAT
3-1132	054-TP3-07-1132	17838	PSA-10	HS SAT
3-1133	055-TP3-07-1133	13695	PSA-10	HS SAT
3-1134	056-TP3-07-1134	17836	PSA-10	HS SAT
3-1135	057-TP3-07-1135	17839	PSA-10	HS SAT

## SPARE SNUBBERS

Seven (7) snubbers were chosen by FP&L representative to be functionally tested to used as spares or placed in dry storage.

<u>Exam Number</u>	<u>Serial Number</u>	<u>Mfg./Cap.</u>	<u>Result</u>	<u>Location</u>
TP-07-3-001	3932	PSA-10	SAT	TAG# 3-1048
TP-07-3-002	3919	PSA-10	SAT	TAG# 3-1049
TP-07-3-003	27092	PSA-3	SAT	TAG# 3-1060
TP-07-3-004	16238	PSA-10	SAT	Dry Storage
TP-07-3-005	11461	PSA-10	SAT	Dry Storage
TP-07-3-006	19728	PSA-3	SAT	Dry Storage
TP-07-3-007	16231	PSA-10	SAT	TAG# 3-1131

In summary, sixty-seven (67) visual tests were performed. Forty-four (44) of these were hand strokes, thirteen (13) were as found test, and ten (10) were as left tests. Of the ten (10) as left test seven (7) were spares.

NOTE: -All of the above had an initial VT-3 performed.

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

**Summary of System Pressure Testing**

**Attachment 4**

**TURKEY POINT**  
**UNIT 3 CYCLE 23**  
**SYSTEM PRESSURE TESTING**  
**FINAL REPORT**

Owner: Florida Power and Light Company  
700 Universe Blvd.  
Juno Beach, Florida, 33408

Plant: Florida Power and Light Company  
Turkey Point Nuclear Power Plant Unit 3  
9760 SW 344<sup>th</sup> St.  
Florida City, Florida, 33035

Commercial Service Date: December 14, 1972

Cycle 23 Service Dates: April 10, 2006 to October 16, 2007

Refueling Outage Dates: September 3, 2007 to October 16, 2007

Prepared By: James Nobb Date: 11/14/07

Reviewed By: Ricky Spellman Date: 11/15/07

Approved By: Ejuna Date: 11/16/07

### **Abstract**

This report details the pressure testing of selected ASME Class 1, 2 and 3 piping and components of Florida Power and Light Company's Unit 3 at the Turkey Point Nuclear Power Station. These tests were performed during Unit 3 cycle 23. The refueling outage occurred between the dates of September 3, 2007 and October 16, 2007. The complete cycle 23 was from April 10, 2006 to October 16, 2007. This pressure testing is being reported following the first outage of the second period for fourth ten-year interval for Turkey Point Unit 3.

Piping and components were selected and tested in accordance with Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code "Rules for Inservice Inspection of Nuclear Power Components", 1998 Edition, 2000 addenda with specific relief as granted in accordance with 10CFR 50.55a.

### **Procedures**

The following Florida Power and Light (FPL) procedures and documents have been implemented to provide instructional guidance for the performance of the required ASME XI pressure testing and subsequent inspections.

0-ADM-523	ASME Section XI Pressure Tests for Quality Group A, B, C Systems/Components.
3-OSP-041.25	RCS Overpressure Leak Testing
3-OSP-045.1	ASME Section XI Quality Group A Bolting Examination
3-OSP-045.2	ASME Section XI Quality Group B Bolting Examination
3-OSP-041.2	Reactor Coolant System Visual Leak Inspection and Leak Evaluation.
NDE-4.2	Visual Examination VT-2 Conducted During System Pressure Tests.

### **System Summary**

The following safety related Class 1, 2, and 3 systems, or sections thereof were pressure tested in accordance with the requirements of the 1998 Edition, 2000 addenda ASME Section XI Code.

<b>System Name</b>	<b>System Number</b>
Intake Cooling Water	19
Component Cooling Water	30
Spent Fuel Pool Cooling	33
Reactor Coolant	41
Chemical and Volume Control	47
Residual Heat Removal	50
Safety Injection	62
Safety Injection Accumulators	64
Containment Spray	68
Main Steam	72
Feedwater	74
Auxiliary Feedwater	75

**Acronyms:**

ADM:	Administrative
AFW:	Auxiliary Feedwater
ASME:	American Society of Mechanical Engineers
CSS:	Containment Spray System
CST:	Condensate Storage Tank
CCW:	Component Cooling Water
CVCS:	Chemical Volume Control System
ECC:	Emergency Containment Cooler
FW:	Feedwater
HX:	Heat Exchanger
ICW:	Intake Cooling Water
MS:	Main Steam
NDE:	Nondestructive Examination
PWO:	Plant Work Order
PZR:	Pressurizer
RCP:	Reactor Coolant Pump
RCS:	Reactor Coolant System
RHR:	Residual Heat Removal
RO:	Restricting Orifice
RV:	Relief Valve
RX:	Reactor
SFPC:	Spent Fuel Pool Cooling
SI:	Safety Injection
SIA:	Safety Injection Accumulators
SG:	Steam Generator
XJ:	Expansion Joint
WO:	Work Order

### Test Package Development:

The specific pressure test boundaries were selected after review of the applicable plant operating diagram/code boundary drawings. The piping systems were broken into sub systems. The sub-systems were selected based on Technical Specifications operability requirements, acceptable isolation points and availability of test connections and vent valves. The sub-systems were then assigned test package numbers, which could be tested in entirety, or based on availability could be broken down further into numerous tests within the specific sub-system.

The pressure test package numbers contain six (6) segments of information,

Sample: 04-CCW-30110 -L-01  
          ↑  ↑  ↑  ↑  ↑  ↑  
          1  2  3  4  5  6

1. Unit Number (00) common to both units 3 and 4. (03) Unit 3 specific and (04) Unit 4 specific.
2. System abbreviation
3. System number [First (2) digits].
4. Sub-system number [(2) or (3) digits].
5. Type of test (H) Hydrostatic, (P) Pneumatic, (L) Leakage.
6. Number of test performed within the specific sub-system.

## **PRESSURE TESTS THAT WERE PERFORMED DURING CYCLE 23**

### **INTAKE COOLING WATER SYSTEM (19)**

**03-ICW-19157-L-01** Test Date: 9/17/2007

This test performed due to the replacement of valve 3-50-324 per WO#35019795-01. There was no leakage observed.

**03-ICW-19158-L-01** Test Date: 9/17/2007

This test performed due to the replacement of valve 3-50-329 per WO#35019796-01. There was no leakage observed.

**03-ICW-19159-L-01** Test Date: 9/27/2007

This test performed due to the replacement of valve 3-50-344 per WO#35019793-01. There was no leakage observed.

**03-ICW-19160-L-01** Test Date: 5/21/2006

This test performed due to the replacement of 3B ICW pump, check valve and down steam flange per WO#35029354-01 and WO#35029354-03. There was no leakage observed.

**03-ICW-19163-L-01** Test Date: 7/7/2006

This test performed due to the replacement of valve 3-50-331 per WO#35018481-01. There was no leakage observed.

**03-ICW-19167-L-01** Test Date: 2/22/2007

This test performed due to the replacement of 3C Intake Cooling Water Pump per WO#35030563-01. There was no leakage observed.

**03-ICW-19169-L-01** Test Date: 2/9/2007

This test performed due to the replacement of valve 3-50-311 per WO#36003412-01. There was no leakage observed.

## REACTOR COOLANT SYSTEM (41)

**03-RCS-4101-L-03** Test Date: 10/11/2007

This test involved the leakage test of the Reactor Coolant System piping inside containment following the Unit 3 Cycle 23 Refueling Outage. This leakage test also addressed the following replacements:

<b>Component</b>	<b>Work Order #</b>	<b>Description</b>
RV-3-551A	36019509-01	Remove, install spare
RV-3-551B	36019516-01	Remove, install spare
RV-3-551C	36019525-01	Remove, install spare
TE-3-422B2	37019007-03	Replace Thermowell
TE-3-420A	37014438-01	Replace Thermowell
D-3	36009235-01	Replace fitting at seal table
3-385	37020609-01	Replace valve bonnet

No leakage was observed during this test.

## CHEMICAL AND VOLUME CONTROL SYSTEM (47)

**03-CVCS-4793-L-01** Test Date: 10/25/2007

This test was performed due to the replacement of valve 3-293D per WO#35010379-01. There was no leakage observed.

**03-CVCS-4794-L-01** Test Date: 10/11/2007

This test was performed due to the replacement of valve 3-293A per WO#335010386-01. There was no leakage observed.

## MAIN STEAM SYSTEM (072)

**03-MS-7233-L-01** Test Date: 10/11/2007

This test was performed due to the replacement of valve RV-3-1407 per WO#34020152-01. There was no leakage observed.

**03-MS-7239-L-01** Test Date: 10/11/2007

This test was performed due to the replacement of valve RV-3-1410 per WO#36014347-01. There was no leakage observed.

**03-MS-7240-L-01** Test Date: 10/11/2007

This test was performed due to the replacement of valve RV-3-1402 per WO#36018462-01. There was no leakage observed.

**03-MS-7241-L-01** Test Date: 10/11/2007

This test was performed due to the replacement of valve RV-3-1408 per WO#36018463-01. There was no leakage observed.

## BOLTED JOINT EXAMINATIONS

The bolted joint examinations were performed in accordance with 3-OSP-045.1 for ASME Class 1. The inspections for class 1 components consisted of all insulated bolted connections that require inspection. The insulation was removed for inspection. There was no identified bolted joint leakage discovered during this inspection cycle.

**TURKEY POINT  
UNIT 3**

**2007 REFUELING OUTAGE**

**Summary of Inservice Inspection IWL Examinations**

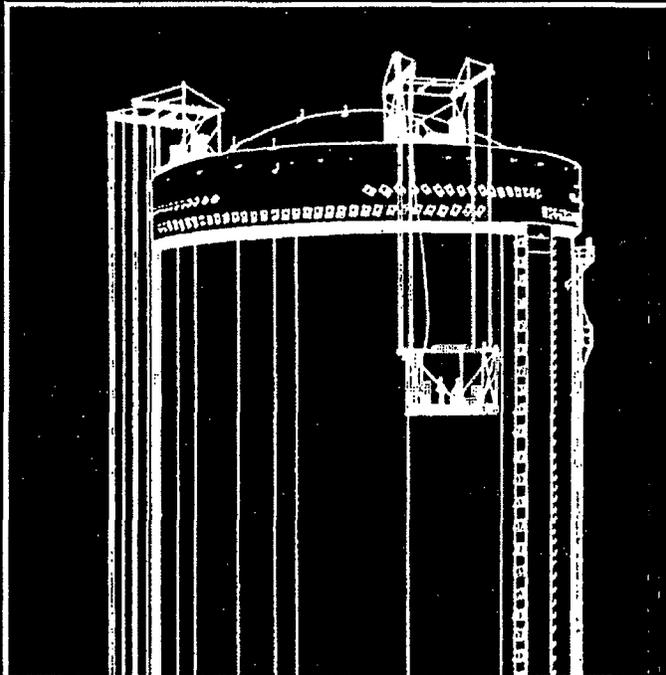
**Attachment 5**

PTN/PSC-TP-N981-508

Final Report For The 35<sup>th</sup> Year Containment IWL Inspection

35<sup>th</sup> Year Tendon Surveillance At Turkey Point

Section 1 thru 13



**PSC**  
**Precision**  
**Surveillance**  
**Corporation**



DOCUMENT NUMBER: PTN/PSC-TP-N981-508 REVISION: 0 PAGE: 1  
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 PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT DATE: 05/25/07



### DOCUMENT COVER SHEET

Document No: PTN/PSC-TP-N981-508

Title: FINAL REPORT FOR THE 35<sup>TH</sup> YEAR CONTAINMENT IWL INSPECTION

No.	Description	By	Date	Chkd	Date	Appr	Date
				PSC SIGN OFF		FPL SIGN OFF	
0	Submittal Issue	<i>CEC</i>	05/25/07	<i>BAG</i>	05/25/07	<i>MA</i>	6/28/07

REVISIONS



DOCUMENT NUMBER: PTN/PSC-TP-N981-608 REVISION: 0 PAGE: ii  
DOCUMENT TITLE: FINAL REPORT FOR THE 35<sup>TH</sup> YEAR CONTAINMENT IWL INSPECTION  
PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT DATE: 05/25/07



#### ABSTRACT

The purpose of this report is to present the results of the 2007 35<sup>th</sup> Year Containment IWL Inspection of the Florida Power & Light Turkey Point Units 3 and 4 Containment Structure post tensioning systems. The results of this investigation are discussed in detail in the body of this report and are summarized as follows:

1. The sheathing filler (grease) samples were tested and found to have acceptable levels of water-soluble ions, (Chlorides, Nitrates, and Sulfides). One tendon end sample had a moisture content above the limits. However, upon engineering review of the VT-1 inspection and comparison of previous inspections, the condition is not indicative of the tendons condition or capacity for performing as designed and is deemed acceptable. All neutralization numbers were above the IWL requirement of 0.0 mg KOH/g value and acceptable. No visible breakdown of the grease was noted either by color or consistency for all grease samples tested.
2. Seven of the tendon ends inspected exhibited water, 0 to 12 ounces, during removal of the grease cap, detensioning or around the tendon anchorage. Upon water sample testing and the engineering evaluation, these conditions have been deemed acceptable
3. Acceptable corrosion levels were found on all tendon ends and no cracks were found on any anchorage components. Cracks in the concrete surrounding the bearing plates were within allowable tolerance of < 0.010"
4. Additional missing buttonheads were found on five of the inspected surveillance tendon ends and no protruding wires were detected.
5. The IWL baseline concrete examination for Units 3 and 4 was completed on 8/16/01 during the 30<sup>th</sup> Year Containment Tendon Surveillance. The subsequent required examination of the containment concrete has been performed during this 35<sup>th</sup> Year period. All of the additional indications detected since the baseline inspection have been evaluated and deemed acceptable. The indications do not constitute abnormal degradation of the containment structure and there is no structural concern associated with these indications.
6. The hydraulic jacks used for liftoffs, detensioning and retensioning tendons were calibrated and found to be within an acceptable range of +/- 1.5%.
7. The tendon liftoffs were found to be within the acceptable limits in all cases.
8. All sample wires tested were found to be acceptable for diameter, yield strength, ultimate strength and elongation.
9. The detensioned tendons were retensioned with acceptable elongations and acceptable force levels.
10. All tendons were resealed and regreased to acceptable levels in accordance with SQ12.1 of the PSC Surveillance Procedure, which is included in Appendix H.
11. A comparison of "As-found" force levels to the original force levels was made in an effort to detect any evidence of system degradation. The amount of force loss since the original installation is comparable to the losses of other plants of this age and does not show any evidence of system degradation.

Based on the data gathered during the 2007 35<sup>th</sup> Year Containment IWL Inspection and reported herein, the conclusion is reached that no abnormal degradation of the Post Tensioning System has occurred at the Florida Power & Light Turkey Point Units 3 and 4 Containment Structures.



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## 1.0 INTRODUCTION

This report details the 35<sup>th</sup> Year Containment IWL Inspection of the Florida Power & Light Turkey Point Units 3 and 4 containment structures. The Containment Structure surveillance program is a systematic means of assessing the quality and structural performance of the post tensioning system and exterior concrete surface.

The tendon surveillance program consists of a periodic inspection of the condition of a selected group of tendons on one Unit while a visual inspection is performed on the other. This program provides confidence in the condition and functional capability of the system, and an opportunity for timely corrective measures if adverse conditions are detected. Physical tendon surveillance consists of: sheathing filler inspection and testing, anchorage inspection, force monitoring, inspection and tensile test of removed wire samples (for detensioned tendons), retensioning of detensioned tendons and replacement of sheathing filler after completion of all inspections.

The Turkey Point Units 3 & 4 is currently committed to meet the requirements of the American Society of Mechanical Engineers, Boiler and Pressure Vessel Code, Section XI, 1992 Edition with 1992 Addenda, Sub-Section IWL "Requirements for Class CC Concrete Components of Light-Water Cooled Plants". Portions of the containment buildings at the Turkey Point Units 3 & 4 were affected by the Reactor Vessel Closure Head (RVCH) project. The above mentioned edition of the code does not require any additional tendon inspection due to RVCH project. However, as a conservative measure additional tendons were inspected during the 35<sup>th</sup> Year IWL inspection period. The additional tendons were selected based on Sections IWL 2521.2 of the ASME Boiler & Pressure Vessel Code, Section XI, 2001 Edition with 2002 Addenda. This program is also subject to the limitations and modifications of 10 CFR 50.55a(b)(2), 10 CFR 50.55a(g)(4), and 10 CFR 50.55a(g)(6).

The 35<sup>th</sup> Year tendon surveillance at the Turkey Point Nuclear Plant began on January 8, 2007 and ended on March 27, 2007. This surveillance period consisted of a Visual Inspection on Unit 3 and a Physical Inspection on Unit 4. The Turkey Point Technical Specifications, PSC Surveillance Procedures, the Code of Federal Regulations 10 CFR 50.55a and ASME Section XI, Sub-Section IWL, define the specific requirements for selection of the inspection tendons as well as specific requirements and acceptance criteria for the performance of the inspection. A copy of the PSC Surveillance Procedures is included in Appendix H of this Surveillance Report. The tendon selection for the Original Surveillance, Augmented Surveillance due to the RVHC Project and Condition Report items required per Calculation PTN-BFSC-01-2007 are listed in the following Tables 1 thru 4.



Hydraulic Rams are used to check the force on each tendon selected for Physical Inspection.



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**TABLE 1 : UNIT 3 – SCOPE OF WORK**

UNIT 3 – TURKEY POINT 35 <sup>TH</sup> YEAR SURVEILLANCE SCOPE OF WORK												
TENDON	END	VISUAL					PHYSICAL					COMMENTS
		SQ60	SQ61	SQ70	SQ80	SQ83	SQ90	SQ102	SQ103	SQ110	SQ121	
12V06	D & G	●	●	●	●	●	●	●	●	●	●	AUGMENTED RVCH SCOPE
12V22	D & G	●	●	●	●	●					●	ORIGINAL SCOPE, COMMON
45V02	D & G	●	●	●	●	●					●	ORIGINAL SCOPE
45V11	D & G	●	●	●	●	●					●	ORIGINAL SCOPE
45V28	D & G	●	●	●	●	●					●	ORIGINAL SCOPE
56V22	D & G	●	●	●	●	●	● <sup>(1)</sup>				●	AUGMENTED RVCH SCOPE
61V01	D & G	●	●	●	●	●	● <sup>(1)</sup>				●	AUGMENTED RVCH SCOPE
13H10	BT. 1	●	●	●	●	●					●	INACCESSIBLE, ORIGINAL SCOPE
13H31	BT. 1 & 3	●	●	●	●	●					●	REPLACEMENT FOR 13H10 PER IWL-2521.1(b)
35H39	BT. 3 & 5	●	●	●	●	●					●	ORIGINAL SCOPE
51H03	BT. 1 & 5	●	●	●	●	●					●	ORIGINAL SCOPE
51H18	BT. 1 & 5	●	●	●	●	●					●	ORIGINAL SCOPE, COMMON
51H33	BT. 1 & 5	●	●	●	●	●					●	INACCESSIBLE, AUGMENTED RVCH SCOPE
51H35	BT. 1 & 5	●	●	●	●	●	●				●	REPLACEMENT FOR 51H33 PER IWL-2521.1(b)
62H55	BT. 2 & 6	●	●	●	●	●	●	●	●	●	●	AUGMENTED RVCH SCOPE
64H75	BT. 4 & 6	●	●	●	●	●					●	ORIGINAL SCOPE
2D16	BT. 1 & 4	●	●	●	●	●					●	REPLACEMENT FOR 2D40 PER RELIEF REQUEST NO. 21
2D17	BT. 1 & 4	●	●	●	●	●					●	REPLACEMENT FOR 2D40 PER RELIEF REQUEST NO. 21
2D40	BT. 1	●	●	●	●	●					●	INACCESSIBLE, ORIGINAL SCOPE
3D08	BT. 4 & 6	●	●	●	●	●					●	ORIGINAL SCOPE, COMMON
3D51	BT. 1 & 2	●	●	●	●	●					●	ORIGINAL SCOPE
3D52	BT. 1 & 2	●	●	●	●	●					●	ORIGINAL SCOPE

**LEGEND**

SQ 6.0 – GREASE CAP REMOVAL  
 SQ 6.1 – INSPECTION FOR WATER  
 SQ 7.0 – ACQUIRE GREASE SAMPLES  
 SQ 8.0 – ANCHORAGE INSPECTION  
 SQ 8.3 – CONCRETE INSPECTION

SQ 9.0 – MONITOR TENDON FORCE  
 SQ 10.2 – TENDON WIRE INSPECTION  
 SQ 10.3 – TESTING TENDON WIRES  
 SQ 11.0 – RETENSION TENDONS  
 SQ 12.1 – GREASE REPLACEMENT

**NOTES:**

(1) – DENOTES TENDONS WHICH WERE SINGLE END STRESSED FROM DOME END ONLY. PHYSICAL INSPECTIONS WERE ONLY REQUIRED TO BE PERFORMED ON THE END OF TENDONS WHICH WERE STRESSED.



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**TABLE 2 : UNIT 3 – SCOPE OF WORK – ADDITIONAL WORK**

UNIT 3 – TURKEY POINT 35 <sup>TH</sup> YEAR ADDITIONAL SCOPE OF WORK												
TENDON	END	VISUAL					PHYSICAL					COMMENTS
		SQ 6.0	SQ 6.1	SQ 7.0	SQ 8.0	SQ 8.3	SQ 9.0	SQ 10.2	SQ 10.3	SQ 11.0	SQ 12.1	
12V03	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
12V05	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
12V14	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
34V13	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
56V19	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
56V20	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
56V25	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
56V29	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
56V30	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
61V03	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
61V07	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
61V09	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
61V22	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
61V25	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
61V30	GALLERY	●	●								●	AUG. CR SCOPE, GASKET REPAIR
35H50	BT. 3	●	●	●	●	●					●	AUG. CR SCOPE, GASKET REPAIR
35H51	BT. 3	●	●									AUG. CR SCOPE, ALLTHREAD REPAIR
35H52	BT. 3	●	●									AUG. CR SCOPE, ALLTHREAD REPAIR
51H02	BT. 1	●	●	●	●	●					●	AUG. CR SCOPE, CAN REPLACEMENT
51H30	BT. 1	●	●	●	●	●					●	AUG. CR SCOPE, GASKET REPAIR
51H31	BT. 1	●	●									AUG. CR SCOPE, ALLTHREAD REPAIR
51H63	BT. 1	●	●									AUG. CR SCOPE, ALLTHREAD REPAIR
64H62	BT. 6	●	●	●	●						●	AUG. CR SCOPE, GASKET REPAIR
1D10	BT. 3	●	●								●	AUG. CR SCOPE, GASKET REPAIR
2D08	BT. 3	●	●								●	AUG. CR SCOPE, GASKET REPAIR
2D09	BT. 3	●	●								●	AUG. CR SCOPE, GASKET REPAIR
2D21	BT. 4-3	●	●									AUG. CR SCOPE, PLUG REPAIR
2D22	BT. 3	●	●								●	AUG. CR SCOPE, GASKET REPAIR
2D49	BT. 6	●	●								●	AUG. CR SCOPE, GASKET REPAIR

**LEGEND**

SQ 6.0 – GREASE CAP REMOVAL  
 SQ 6.1 – INSPECTION FOR WATER  
 SQ 7.0 – ACQUIRE GREASE SAMPLES  
 SQ 8.0 – ANCHORAGE INSPECTION  
 SQ 8.3 – CONCRETE INSPECTION

SQ 9.0 – MONITOR TENDON FORCE  
 SQ 10.2 – TENDON WIRE INSPECTION  
 SQ 10.3 – TESTING TENDON WIRES  
 SQ 11.0 – RETENSION TENDONS  
 SQ 12.1 – GREASE REPLACEMENT



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**TABLE 3 : UNIT 4 – SCOPE OF WORK**

UNIT 4 – TURKEY POINT 35 <sup>TH</sup> YEAR SURVEILLANCE SCOPE OF WORK												
TENDON	END	VISUAL					PHYSICAL					COMMENTS
		SQ 6.0	SQ 6.1	SQ 7.0	SQ 8.0	SQ 8.3	SQ 9.0	SQ 10.2	SQ 10.3	SQ 11.0	SQ 12.1	
12V03	D & G	●	●	●	●	●	●(1)	●(1)	●(1)	●(1)	●	AUGMENTED RVCH SCOPE
34V02	D & G	●	●	●	●	●	●(1)				●	ORIGINAL SCOPE, ADDITIONAL GASKET REPAIR PERFORMED
34V23	D & G	●	●	●	●	●	●(1)	●(1)	●(1)	●(1)	●	ORIGINAL SCOPE
45V10	D & G	●	●	●	●	●	●				●	ORIGINAL SCOPE, COMMON
45V23	D & G	●	●	●	●	●	●				●	ORIGINAL SCOPE
56V20	D & G	●	●	●	●	●	●(1)				●	AUGMENTED RVCH SCOPE
56V30	D & G	●	●	●	●	●	●(1)				●	AUGMENTED RVCH SCOPE
13H70	BT. 1 & 3	●	●	●	●	●	●	●	●	●	●	ORIGINAL SCOPE
35H25	BT. 3	●	●	●	●	●					●	INACCESSIBLE, ORIGINAL SCOPE
35H34	BT. 3 & 5	●	●	●	●	●	●				●	REPLACEMENT FOR 34H25 PER IWL-2521.1(b)
42H16	BT. 2 & 4	●	●	●	●	●					●	INACCESSIBLE, ORIGINAL SCOPE
42H19	BT. 2 & 4	●	●	●	●	●					●	INACCESSIBLE, ORIGINAL SCOPE
42H31	BT. 2 & 4	●	●	●	●	●	●				●	REPLACEMENT FOR 42H16 PER IWL-2521.1(b)
42H32	BT. 2 & 4	●	●	●	●	●	●				●	REPLACEMENT FOR 42H19 PER IWL-2521.1(b)
51H40	BT. 1 & 5	●	●	●	●	●	●				●	AUGMENTED RVCH SCOPE
62H33	BT. 2 & 6	●	●	●	●	●	●				●	AUGMENTED RVCH SCOPE
62H34	BT. 2 & 6	●	●	●	●	●	●	●	●	●	●	AUGMENTED RVCH SCOPE
62H82	BT. 2 & 6	●	●	●	●	●	●				●	ORIGINAL SCOPE, COMMON
2D07	BT. 2 & 6	●	●	●	●	●					●	REPLACEMENT FOR 2D34 PER RELIEF REQUEST NO. 21
2D08	BT. 2 & 6	●	●	●	●	●					●	REPLACEMENT FOR 2D34 PER RELIEF REQUEST NO. 21
2D34	BT. 2	●	●	●	●	●					●	INACCESSIBLE, ORIGINAL SCOPE
3D20	BT. 3 & 6	●	●	●	●	●	●				●	ORIGINAL SCOPE, COMMON
3D25	BT. 3 & 6	●	●	●	●	●	●				●	ORIGINAL SCOPE
3D31	BT. 3 & 6	●	●	●	●	●	●	●	●	●	●	ORIGINAL SCOPE

**LEGEND**

SQ 6.0 – GREASE CAP REMOVAL  
 SQ 6.1 – INSPECTION FOR WATER  
 SQ 7.0 – ACQUIRE GREASE SAMPLES  
 SQ 8.0 – ANCHORAGE INSPECTION  
 SQ 8.3 – CONCRETE INSPECTION

SQ 9.0 – MONITOR TENDON FORCE  
 SQ 10.2 – TENDON WIRE INSPECTION  
 SQ 10.3 – TESTING TENDON WIRES  
 SQ 11.0 – RETENSION TENDONS  
 SQ 12.1 – GREASE REPLACEMENT

**NOTES:**

(1) – DENOTES TENDONS WHICH WERE SINGLE END STRESSED FROM DOME END ONLY. PHYSICAL INSPECTIONS WERE ONLY REQUIRED TO BE PERFORMED ON THE END OF TENDONS WHICH WERE STRESSED



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**TABLE 4 : UNIT 4 – SCOPE OF WORK – ADDITIONAL WORK**

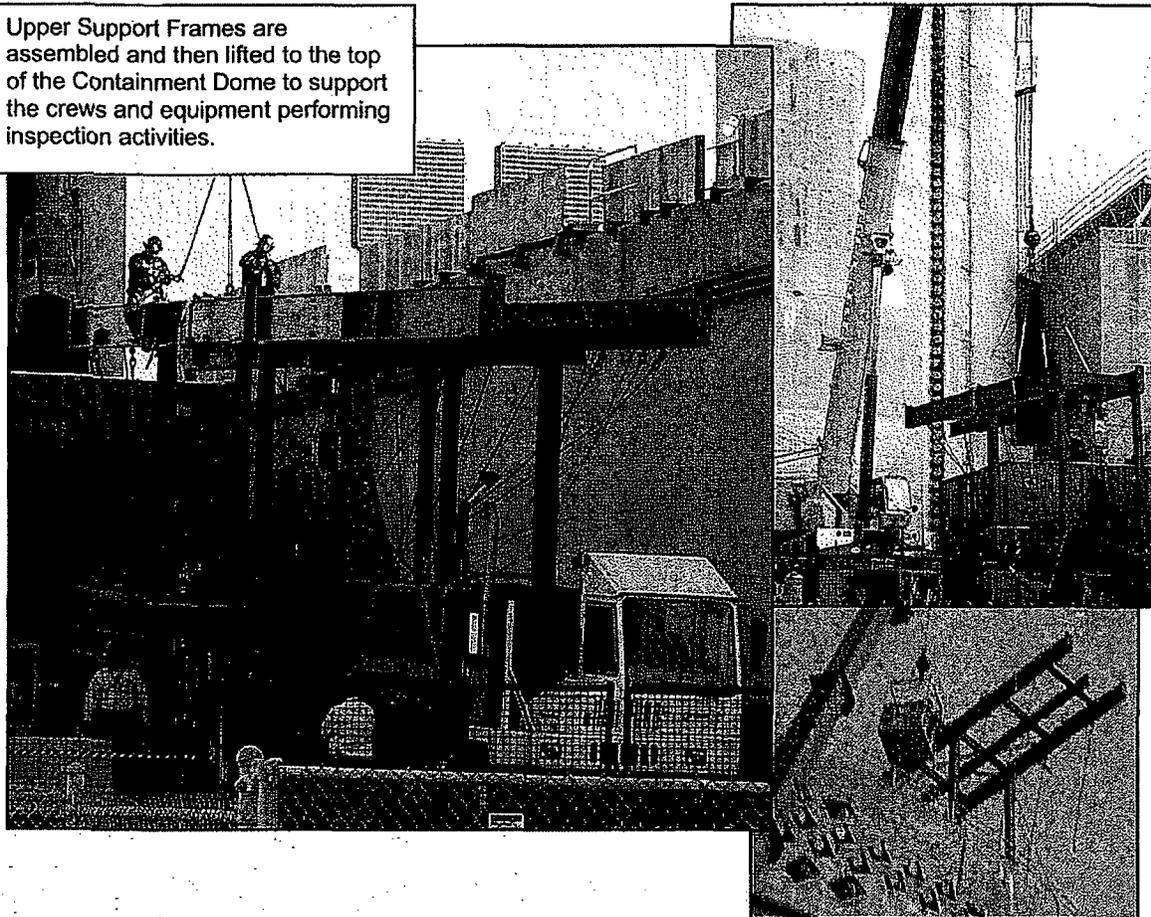
UNIT 4 – TURKEY POINT 35 <sup>TH</sup> YEAR ADDITIONAL SCOPE OF WORK												
TENDON	END	VISUAL					PHYSICAL					COMMENTS
		SQ 6.0	SQ 6.1	SQ 7.0	SQ 8.0	SQ 8.3	SQ 9.0	SQ 10.2	SQ 10.3	SQ 11.0	SQ 12.1	
12V19	D & G	●	●	●	●	●					●	AUG. CR SCOPE, GASKET REPAIR
51H01	BT. 1 & 5	●	●	●	●	●					●	AUG. CR SCOPE, GASKET REPAIR
1D28	BT. 4	●	●									AUG. CR SCOPE, ALLTHREAD REPAIR
3D30	BT. 3	●	●									AUG. CR SCOPE, ALLTHREAD REPAIR

**LEGEND**

SQ 6.0 – GREASE CAP REMOVAL  
 SQ 6.1 – INSPECTION FOR WATER  
 SQ 7.0 – ACQUIRE GREASE SAMPLES  
 SQ 8.0 – ANCHORAGE INSPECTION  
 SQ 8.3 – CONCRETE INSPECTION

SQ 9.0 – MONITOR TENDON FORCE  
 SQ 10.2 – TENDON WIRE INSPECTION  
 SQ 10.3 – TESTING TENDON WIRES  
 SQ 11.0 – RETENSION TENDONS  
 SQ 12.1 – GREASE REPLACEMENT

Upper Support Frames are assembled and then lifted to the top of the Containment Dome to support the crews and equipment performing inspection activities.





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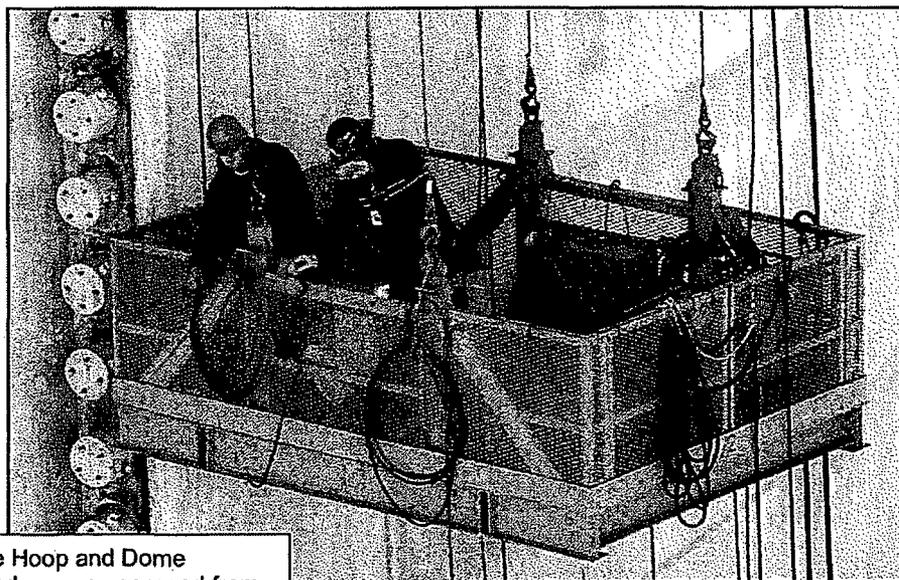
DATE: 05/25/07



## 2.0 SURVEILLANCE PROCEDURES

Appendix H of this Surveillance Report contains the detailed procedures for conducting the tendon surveillance. The surveillance consists of the following steps:

- 2.1 Visual examination of sheathing filler grease.
- 2.2 Analytical testing of sheathing filler grease samples.
- 2.3 Inspection of the anchorage assembly of each of the surveillance tendon ends for deleterious conditions such as corrosion, cracks, broken or missing wires or buttonheads.
- 2.4 Inspection of concrete surrounding the bearing plate.
- 2.5 Inspection of the tendon anchorage grease caps for all of the assessable ends.
- 2.6 General exterior concrete inspection.
- 2.7 Measurement of the liftoff force for each physical surveillance tendon.
- 2.8 Removal of one wire from surveillance tendons, which are detensioned for examination and testing.
- 2.9 Retensioning of detensioned tendons and measuring the corresponding tendon elongation.
- 2.10 Visual inspection for corrosion, pitting, or any significant physical change of the removed wires.
- 2.11 Testing of wires removed from tendons for yield strength, ultimate strength, and percentage elongation at failure.
- 2.12 Resealing tendon caps and replacement of lost sheathing filler into the tendon duct and cap.
- 2.13 Evaluation of test and inspection results to assess the general condition of the post tensioning system.



The Hoop and Dome Tendons are accessed from hanging work platforms.



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### 3.0 SHEATHING FILLER ANALYSIS

- 3.1 A sample of sheathing filler (grease) was removed from each end of the surveillance tendons. Chemical tests were performed on each sample by Suburban Laboratories, Inc., and the results are presented in Appendix B and are summarized in Tables 5 thru 12. In Tables 5 thru 12, "N/A" indicates that samples were not taken and/or required for testing.
- 3.2 The maximum acceptable limits are: 10 percent by weight for water content and 10 parts per million for water-soluble chlorides, nitrates and sulfides. All samples that have been tested met the acceptance criteria as stated above except U3-2D16/BT1.
- 3.2.1 The test results for U3-2D16/BT1 were acceptable for water-soluble chlorides, nitrates and sulfides. The moisture content detected in sample 1 of the subject tendon was 39%. Due to the results of sample 1, sample 2 was sent for testing to verify the results. The results from the second sample tested determined the moisture content as 14%. The VT-1 inspection has been reviewed and all other inspection criteria were acceptable. There was no evidence of free water during the inspection, the grease did not show any evidence of moisture or degradation and no corrosion was present. After the visual inspection was completed of the tendon by the IWL Level II Inspectors, the new gasket, tendon cap hardware and grease was installed. The disparity between the two samples regarding moisture content and the review of the VT-1 inspection data sheets allows us to conclude the grease results, regarding moisture, are not indicative of the actual tendon condition. In comparison to surveillance results industry wide, we have not experienced any sample results with this large percentage of moisture content, even with the presence of free water in large quantities (several gallons). Based on the above stated discussion and comparison to previous worse case situation, there is no operability concern associated with the reported condition.
- 3.3 The sample testing report also includes the neutralization number of each grease sample. This test is generally performed by grease manufacturers on new batches of the product and is a method of determining the overbase additives in the grease. Degradation of the sheathing filler will yield a change in the acidity of the filler material as well as an increase in the ion content. The required neutralization number for the mixture of grease at Turkey Point Nuclear Plant is >0.0 mg KOH/g. This requirement was achieved by all samples tested to date.
- 3.4 No detrimental condition was noted on any grease samples, and no visible breakdown of the grease by either color or consistency was noted on any of the tendons tested.



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**TABLE 5 : UNIT 3 VERTICALS – LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 3 VERTICALS - LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No. mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
12V06	DOME	<0.50	<0.50	<0.50	0.39	57.7
	GALLERY	0.50	<0.50	<0.50	<0.10	58.4
12V22	DOME	<0.50	<0.50	<0.50	0.35	67.0
	GALLERY	<0.50	<0.50	<0.50	0.58	54.3
45V02	DOME	0.50	<0.50	<0.50	1.5	12.2
	GALLERY	0.50	<0.50	<0.50	0.27	3.47
45V11	DOME	<0.50	<0.50	<0.50	0.78	4.08
	GALLERY	0.50	<0.50	<0.50	0.58	5.31
45V28	DOME	<0.50	<0.50	<0.50	1.7	46.0
	GALLERY	<0.50	<0.50	<0.50	0.86	52.3
56V22	DOME	<0.50	<0.50	<0.50	0.19	52.6
	GALLERY	<0.50	<0.50	<0.50	0.15	55.8
61V01	DOME	<0.50	<0.50	<0.50	0.11	54.5
	GALLERY	<0.50	<0.50	<0.50	<0.10	64.2

**ACCEPTANCE LIMITS**

TEST	LIMITS
WATER SOLUBLE CHLORIDE	LESS THAN 10.0PPM
WATER SOLUBLE NITRATES	LESS THAN 10.0PPM
WATER SOLUBLE SULFIDES	LESS THAN 10.0PPM
WATER CONTENT	LESS THAN 10% DRY WEIGHT
NEUTRALIZATION NO.	GREATER THAN 0.0 mg KOH/g



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**TABLE 6 : UNIT 3 HOOPS – LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 3 HOOPS LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
13H10	BT. 1	<0.50	<0.50	<0.50	0.57	8.36
	BT. 3	N/A	N/A	N/A	N/A	N/A
13H31	BT. 1	<0.50	<0.50	<0.50	0.68	7.40
	BT. 3	0.50	<0.50	<0.50	0.84	8.13
35H39	BT. 3	0.50	<0.50	<0.50	8.10	5.78
	BT. 5	<0.50	<0.50	<0.50	0.39	6.63
51H03	BT. 1	0.50	<0.50	<0.50	0.34	6.63
	BT. 5	<0.50	<0.50	<0.50	0.29	6.4
51H18	BT. 1	0.50	<0.50	<0.50	0.15	54.8
	BT. 5	0.50	<0.50	<0.50	0.86	7.34
51H33	BT. 1	<0.50	<0.50	<0.50	0.17	42.2
	BT. 5	0.50	<0.50	<0.50	0.98	40.6
51H35	BT. 1	<0.50	<0.50	<0.50	0.15	54.4
	BT. 5	<0.50	<0.50	<0.50	0.33	55.7
62H55	BT. 2	<0.50	<0.50	<0.50	<0.10	47.8
	BT. 6	<0.50	<0.50	<0.50	0.63	56.0
64H75	BT. 4	<0.50	<0.50	<0.50	0.39	7.98
	BT. 6	0.50	<0.50	<0.50	0.44	6.18

ACCEPTANCE LIMITS

TEST	LIMITS
WATER SOLUBLE CHLORIDE	LESS THAN 10.0PPM
WATER SOLUBLE NITRATES	LESS THAN 10.0PPM
WATER SOLUBLE SULFIDES	LESS THAN 10.0PPM
WATER CONTENT	LESS THAN 10% DRY WEIGHT
NEUTRALIZATION NO.	GREATER THAN 0.0 mg KOH/g

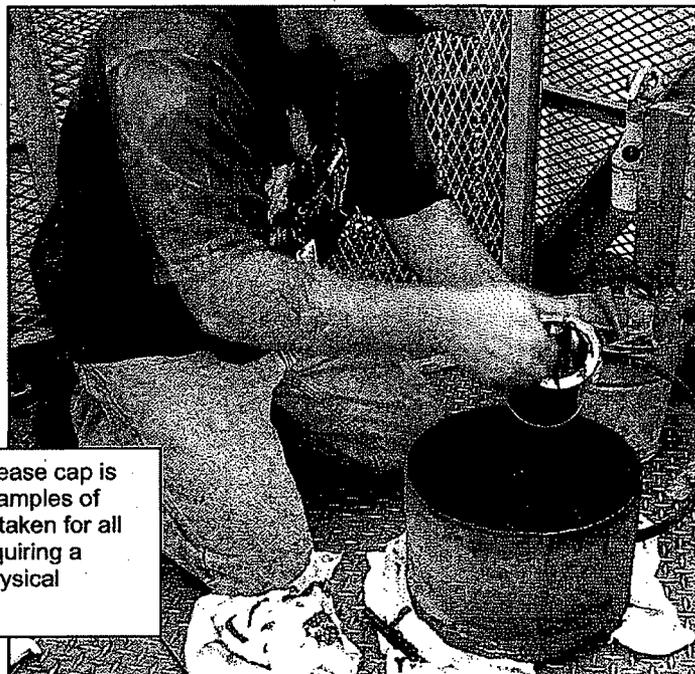


**TABLE 7 : UNIT 3 DOMES – LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 3 DOMES LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No. mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
2D16	NEAR BT.1	0.50	<0.50	<0.50	39.0 / 14.0	5.20 / 4.53
	NEAR BT.4	<0.50	<0.50	<0.50	0.49	4.47
2D17	NEAR BT.1	<0.50	<0.50	<0.50	0.78	2.21
	NEAR BT.4	0.50	<0.50	<0.50	0.40	7.10
2D40	NEAR BT.1	0.50	<0.50	<0.50	0.59	11.2
	NEAR BT.4	N/A	N/A	N/A	N/A	N/A
3D08	NEAR BT.4	<0.50	<0.50	<0.50	0.53	41.6
	NEAR BT.6	<0.50	<0.50	<0.50	0.50	5.45
3D51	NEAR BT.1	0.50	<0.50	<0.50	0.44	8.33
	NEAR BT.2	<0.50	<0.50	<0.50	0.43	6.04
3D52	NEAR BT.1	1.0	<0.50	<0.50	0.39	7.03
	NEAR BT.2	0.50	<0.50	<0.50	0.39	5.97

**ACCEPTANCE LIMITS**

TEST	LIMITS
WATER SOLUBLE CHLORIDE	LESS THAN 10.0PPM
WATER SOLUBLE NITRATES	LESS THAN 10.0PPM
WATER SOLUBLE SULFIDES	LESS THAN 10.0PPM
WATER CONTENT	LESS THAN 10% DRY WEIGHT
NEUTRALIZATION NO.	GREATER THAN 0.0 mg KOH/g



After the grease cap is removed, samples of grease are taken for all tendons requiring a visual or physical inspection.



**TABLE 8 : UNIT 3 ADDITIONAL WORK – LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 3 ADDITIONAL WORK LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No. mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
12V03	GALLERY	N/A	N/A	N/A	N/A	N/A
12V05	GALLERY	N/A	N/A	N/A	N/A	N/A
12V14	GALLERY	N/A	N/A	N/A	N/A	N/A
34V13	GALLERY	N/A	N/A	N/A	N/A	N/A
56V19	GALLERY	N/A	N/A	N/A	N/A	N/A
56V20	GALLERY	N/A	N/A	N/A	N/A	N/A
56V25	GALLERY	N/A	N/A	N/A	N/A	N/A
56V29	GALLERY	N/A	N/A	N/A	N/A	N/A
56V30	GALLERY	N/A	N/A	N/A	N/A	N/A
61V03	GALLERY	N/A	N/A	N/A	N/A	N/A
61V07	GALLERY	N/A	N/A	N/A	N/A	N/A
61V09	GALLERY	N/A	N/A	N/A	N/A	N/A
61V22	GALLERY	N/A	N/A	N/A	N/A	N/A
61V25	GALLERY	N/A	N/A	N/A	N/A	N/A
61V30	GALLERY	N/A	N/A	N/A	N/A	N/A
35H50	BT. 3	0.50	N/A	N/A	3.4	7.01
35H51	BT. 3	N/A	N/A	N/A	N/A	N/A
35H52	BT. 3	N/A	N/A	N/A	N/A	N/A
51H02	BT. 1	<0.50	<0.50	<0.50	0.97	5.96
51H30	BT. 1	<0.50	<0.50	<0.50	5.7	4.49
51H31	BT. 1	N/A	N/A	N/A	N/A	N/A
51H63	BT. 1	N/A	N/A	N/A	N/A	N/A
64H62	BT. 6	<0.50	<0.50	<0.50	4.7	39.8
1D10	BT. 3	N/A	N/A	N/A	N/A	N/A
2D08	BT. 3	N/A	N/A	N/A	N/A	N/A
2D09	BT. 3	N/A	N/A	N/A	N/A	N/A
2D21	BT. 4-3	N/A	N/A	N/A	N/A	N/A
2D22	BT. 3	N/A	N/A	N/A	N/A	N/A
2D49	BT. 6	N/A	N/A	N/A	N/A	N/A

**ACCEPTANCE LIMITS**

TEST	LIMITS
WATER SOLUBLE CHLORIDE	LESS THAN 10.0PPM
WATER SOLUBLE NITRATES	LESS THAN 10.0PPM
WATER SOLUBLE SULFIDES	LESS THAN 10.0PPM
WATER CONTENT	LESS THAN 10% DRY WEIGHT
NEUTRALIZATION NO.	GREATER THAN 0.0 mg KOH/g

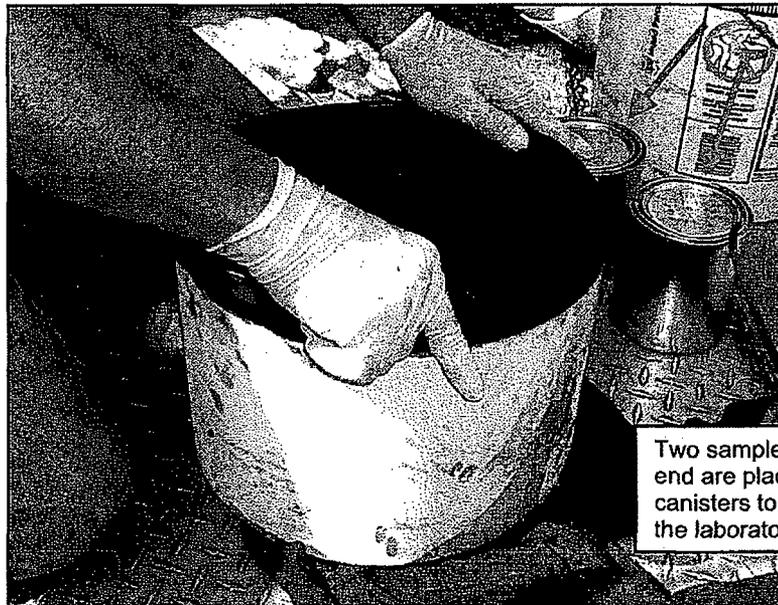


**TABLE 9 : UNIT 4 VERTICALS- LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 4 VERTICALS- LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No. mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
12V03	DOME	<0.50	<0.50	<0.50	0.99	46.4
	GALLERY	<0.50	<0.50	<0.50	1.2	39.4
34V02	DOME	<0.50	<0.50	<0.50	0.97	4.96
	GALLERY	<0.50	<0.50	<0.50	0.43	2.42
34V23	DOME	<0.50	<0.50	<0.50	7.8	2.17
	GALLERY	<0.50	<0.50	<0.50	5.9	1.81
45V10	DOME	<0.50	<0.50	<0.50	1.3	62.3
	GALLERY	<0.50	<0.50	<0.50	3.8	34.0
45V23	DOME	<0.50	<0.50	<0.50	1.2	14.6
	GALLERY	0.50	<0.50	<0.50	0.68	5.94
56V20	DOME	<0.50	<0.50	<0.50	0.17	52.7
	GALLERY	<0.50	<0.50	<0.50	0.27	<0.50
56V30	DOME	<0.50	<0.50	<0.50	1.1	20.0
	GALLERY	<0.50	<0.50	<0.50	0.29	21.4

**ACCEPTANCE LIMITS**

TEST	LIMITS
WATER SOLUBLE CHLORIDE	LESS THAN 10.0PPM
WATER SOLUBLE NITRATES	LESS THAN 10.0PPM
WATER SOLUBLE SULFIDES	LESS THAN 10.0PPM
WATER CONTENT	LESS THAN 10% DRY WEIGHT
NEUTRALIZATION NO.	GREATER THAN 0.0 mg KOH/g



Two samples from each tendon end are placed in 1-quart metallic canisters to be stored, then sent to the laboratory for testing.



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**TABLE 10 : UNIT 4 HOOPS – LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 4 HOOPS: LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No. mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
13H70	BT. 1	<0.50	<0.50	<0.50	0.37	8.00
	BT. 3	<0.50	<0.50	<0.50	0.38	6.14
35H25	BT. 3	<0.50	<0.50	<0.50	0.62	8.01
	BT. 5	N/A	N/A	N/A	N/A	N/A
35H34	BT. 3	<0.50	<0.50	<0.50	0.78	4.35
	BT. 5	0.50	<0.50	<0.50	0.86	6.81
42H16	BT. 2	<0.50	<0.50	<0.50	0.86	4.88
	BT. 4	<0.50	<0.50	<0.50	0.64	4.26
42H19	BT. 2	<0.50	<0.50	<0.50	0.48	7.13
	BT. 4	0.50	<0.50	<0.50	4.6	9.66
42H31	BT. 2	<0.50	<0.50	<0.50	0.88	6.75
	BT. 4	<0.50	<0.50	<0.50	0.48	11.8
42H32	BT. 2	0.50	<0.50	<0.50	0.83	4.82
	BT. 4	0.50	<0.50	<0.50	0.64	6.12
51H40	BT. 1	<0.50	<0.50	<0.50	0.50	6.93
	BT. 5	<0.50	<0.50	<0.50	0.68	42.4
62H33	BT. 2	<0.50	<0.50	<0.50	0.39	41.7
	BT. 6	<0.50	<0.50	<0.50	0.39	44.9
62H34	BT. 2	<0.50	<0.50	<0.50	0.20	54.8
	BT. 6	<0.50	<0.50	<0.50	0.24	52.8
62H82	BT. 2	<0.50	<0.50	<0.50	0.25	45.2
	BT. 6	<0.50	<0.50	<0.50	0.18	12.0

**ACCEPTANCE LIMITS**

TEST	LIMITS
WATER SOLUBLE CHLORIDE	LESS THAN 10.0PPM
WATER SOLUBLE NITRATES	LESS THAN 10.0PPM
WATER SOLUBLE SULFIDES	LESS THAN 10.0PPM
WATER CONTENT	LESS THAN 10% DRY WEIGHT
NEUTRALIZATION NO.	GREATER THAN 0.0 mg KOH/g



**TABLE 11 : UNIT 4 DOMES – LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 4 DOMES: LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No. mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
2D07	NEAR BT.2	<0.50	<0.50	<0.50	0.34	5.47
	NEAR BT.6	<0.50	<0.50	<0.50	0.49	5.44
2D08	NEAR BT.2	<0.50	<0.50	<0.50	0.33	4.09
	NEAR BT.6	<0.50	<0.50	<0.50	0.29	4.16
2D34	NEAR BT.2	<0.50	<0.50	<0.50	0.60	6.36
	NEAR BT.5	N/A	N/A	N/A	N/A	N/A
3D20	NEAR BT.3	<0.50	<0.50	<0.50	0.74	47.0
	NEAR BT.6	<0.50	<0.50	<0.50	0.30	57.3
3D25	NEAR BT.3	<0.50	<0.50	<0.50	1.1	3.54
	NEAR BT.6	<0.50	<0.50	<0.50	0.19	4.35
3D31	NEAR BT.3	<0.50	<0.50	<0.50	0.27	5.75
	NEAR BT.6	<0.50	<0.50	<0.50	0.19	5.26

**TABLE 12 : UNIT 4 ADDITIONAL WORK – LABORATORY ANALYSIS OF SHEATHING FILLER**

UNIT 4 ADDITIONAL WORK: LABORATORY ANALYSIS OF SHEATHING FILLER						
TENDON	END	ION CONCENTRATION (PPM)			% WATER CONTENT	NEUTRAL No. mg KOH/g
		CHLORIDE	SULFIDE	NITRATE		
12V19	DOME	N/A	N/A	N/A	N/A	N/A
	GALLERY	<0.50	<0.50	<0.50	1.9	4.78
51H01	BT. 1	0.50	<0.50	<0.50	0.78	3.77
	BT. 5	<0.50	<0.50	<0.50	0.88	65.6
1D28	BT. 4	N/A	N/A	N/A	N/A	N/A
3D30	BT. 3	N/A	N/A	N/A	N/A	N/A

**ACCEPTANCE LIMITS**

TEST	LIMITS
WATER SOLUBLE CHLORIDE	LESS THAN 10.0PPM
WATER SOLUBLE NITRATES	LESS THAN 10.0PPM
WATER SOLUBLE SULFIDES	LESS THAN 10.0PPM
WATER CONTENT	LESS THAN 10% DRY WEIGHT
NEUTRALIZATION NO.	GREATER THAN 0.0 mg KOH/g



#### 4.0 ANCHORAGE COMPONENTS

In the following discussion, all procedures referred to are included in Appendix H of this report and all data sheets are included in Appendix A.

##### 4.1 SQ6.0 – GREASE CAP REMOVAL

4.1.1 Inspection of the anchorage components began by removing the grease cap (PSC Procedure SQ 6.0). Complete grease coating (100%) was found on 112 out of the 117 tendon ends in which their cap was removed either for physical inspection, visual inspection or gasket repair. Tendons U3-45V02/Dome, U3-45V11/Dome, U3-51H33/BT1, U3-51H35/BT5 and U4-34V23/Dome had coatings ranging from 50% to 100%. It has been determined per the inspection that all of the anchorage components corrosion level criteria have been met. The percentage of grease coverage was recorded on Data Sheet SQ 6.0 with the results tabulated in Tables 13 thru 20. In Tables 13 thru 20, "N/A" indicates the cap was not removed and/or not existent.

**TABLE 13: UNIT 3 VERTICALS – SQ6.0 – GREASE CAP REMOVAL**

UNIT 3 VERTICALS: SQ6.0 – GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
12V06	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
12V22	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
45V02	DOME	80 <sup>(1)</sup>	100	100	100	100
	GALLERY	100	100	100	N/A	100
45V11	DOME	80 <sup>(1)</sup>	100	85 <sup>(1)</sup>	100	100
	GALLERY	100	100	100	100	100
45V28	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
56V22	DOME	100	100	100	100	100
	GALLERY	100	100	100	N/A	100
61V01	DOME	100	100	100	100	100
	GALLERY	100	100	100	N/A	100

(1) No corrosion present



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**TABLE 14: UNIT 3 HOOPS – SQ6.0 – GREASE CAP REMOVAL**

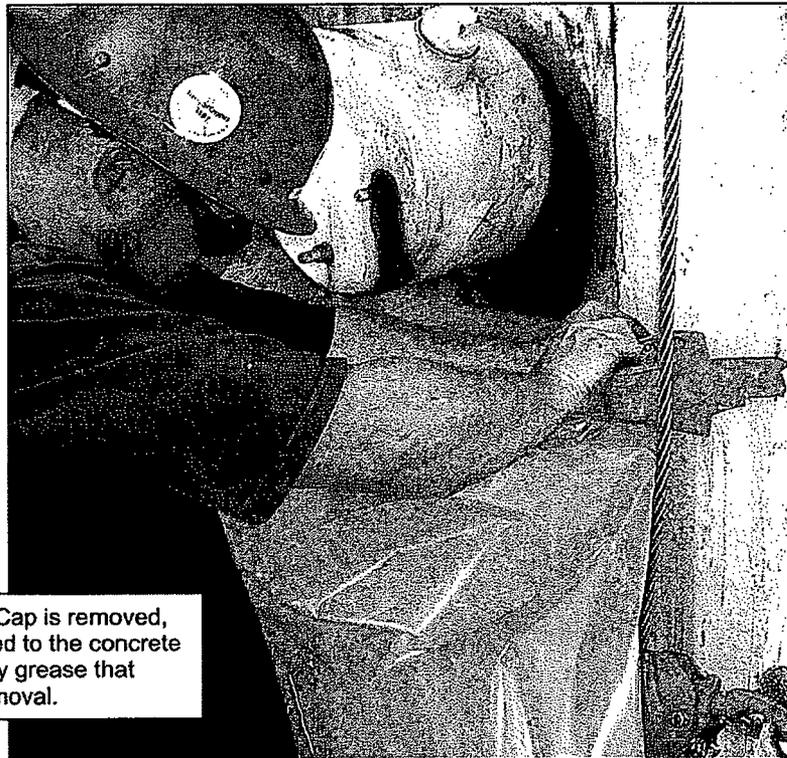
UNIT 3 HOOPS SQ6.0 – GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
13H10	BT. 1	100	100	100	100	100
	BT. 3	N/A	N/A	N/A	N/A	N/A
13H31	BT. 1	100	100	100	100	100
	BT. 3	100	100	100	100	100
35H39	BT. 3	100	100	100	100	100
	BT. 5	100	100	100	100	100
51H03	BT. 1	100	100	100	100	100
	BT. 5	100	100	100	100	100
51H18	BT. 1	100	100	100	100	100
	BT. 5	100	100	100	100	100
51H33	BT. 1	50 <sup>(1)</sup>	100	100	50 <sup>(1)</sup>	100
	BT. 5	100	100	100	100	100
51H35	BT. 1	100	100	100	100	100
	BT. 5	50 <sup>(1)</sup>	50 <sup>(1)</sup>	50 <sup>(1)</sup>	50 <sup>(1)</sup>	50 <sup>(1)</sup>
62H55	BT. 2	100	100	100	100	100
	BT. 6	100	100	100	100	100
64H75	BT. 4	100	100	100	100	100
	BT. 6	100	100	100	100	100

(1) – NO CORROSION PRESENT



**TABLE 15: UNIT 3 DOMES – SQ6.0 – GREASE CAP REMOVAL**

UNIT 3 DOMES: SQ6.0 – GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
2D16	NEAR BT.1	100	100	100	100	100
	NEAR BT.4	100	100	100	100	100
2D17	NEAR BT.1	100	100	100	100	100
	NEAR BT.4	100	100	100	100	100
2D40	NEAR BT.1	100	100	100	100	100
	NEAR BT.4	N/A	N/A	N/A	N/A	N/A
3D08	NEAR BT.4	100	100	100	100	100
	NEAR BT.6	100	100	100	100	100
3D51	NEAR BT.1	100	100	100	100	100
	NEAR BT.2	100	100	100	100	100
3D52	NEAR BT.1	100	100	100	100	100
	NEAR BT.2	100	100	100	100	100



Before the Grease Cap is removed, a plastic bag is taped to the concrete in order to catch any grease that might fall during removal.



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**TABLE 16: UNIT 3 ADDITIONAL WORK – SQ6.0 – GREASE CAP REMOVAL**

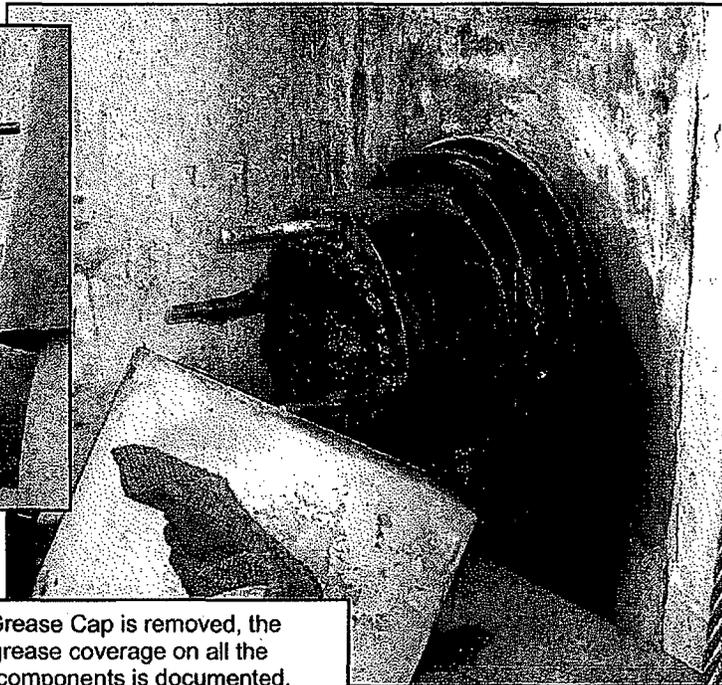
UNIT 3 ADDITIONAL WORK: SQ6.0 – GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
12V03	GALLERY	100	100	100	100	100
12V05	GALLERY	100	100	100	100	100
12V14	GALLERY	100	100	100	100	100
34V13	GALLERY	100	100	100	100	100
56V19	GALLERY	100	100	100	100	100
56V20	GALLERY	100	100	100	100	100
56V25	GALLERY	100	100	100	100	100
56V29	GALLERY	100	100	100	100	100
56V30	GALLERY	100	100	100	100	100
61V03	GALLERY	100	100	100	100	100
61V07	GALLERY	100	100	100	100	100
61V09	GALLERY	100	100	100	100	100
61V22	GALLERY	100	100	100	100	100
61V25	GALLERY	100	100	100	100	100
61V30	GALLERY	100	100	100	100	100
35H50	BT. 3	100	100	100	100	100
35H51	BT. 3	N/A	N/A	N/A	N/A	N/A
35H52	BT. 3	N/A	N/A	N/A	N/A	N/A
51H02	BT. 1	100	100	100	100	100
51H30	BT. 1	100	100	100	100	100
51H31	BT. 1	N/A	N/A	N/A	N/A	N/A
51H63	BT. 1	N/A	N/A	N/A	N/A	N/A
64H62	BT. 6	100	100	100	100	100
1D10	BT. 3	100	100	100	100	100
2D08	BT. 3	100	100	100	100	100
2D09	BT. 3	100	100	100	100	100
2D21	BT. 4-3	N/A	N/A	N/A	N/A	N/A
2D22	BT. 3	100	100	100	100	100
2D49	BT. 6	100	100	100	100	100



TABLE 17: UNIT 4 VERTICALS - SQ6.0 - GREASE CAP REMOVAL

UNIT 4 VERTICALS - SQ6.0 - GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
12V03	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
34V02	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
34V23	DOME	50 <sup>(1)</sup>	100	100	100	100
	GALLERY	100	100	100	100	100
45V10	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
45V23	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
56V20	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
56V30	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100

(1) - NO CORROSION PRESENT



When the Grease Cap is removed, the amount of grease coverage on all the anchorage components is documented.



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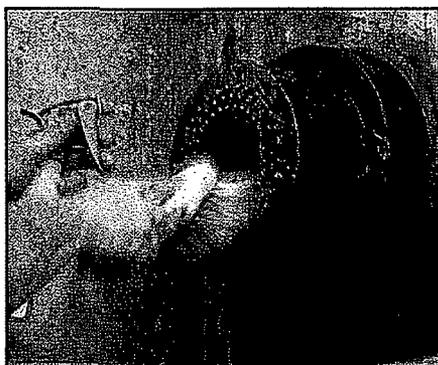
**TABLE 18: UNIT 4 HOOPS – SQ6.0 – GREASE CAP REMOVAL**

UNIT 4 HOOPS: SQ6.0 – GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
13H70	BT. 1	100	100	100	100	100
	BT. 3	100	100	100	100	100
35H25	BT. 3	100	100	100	100	100
	BT. 5	N/A	N/A	N/A	N/A	N/A
35H34	BT. 3	100	100	100	100	100
	BT. 5	100	100	100	100	100
42H16	BT. 2	100	100	100	100	100
	BT. 4	100	100	100	100	100
42H19	BT. 2	100	100	100	100	100
	BT. 4	100	100	100	100	100
42H31	BT. 2	100	100	100	100	100
	BT. 4	100	100	100	100	100
42H32	BT. 2	100	100	100	100	100
	BT. 4	100	100	100	100	100
51H40	BT. 1	100	100	100	100	100
	BT. 5	100	100	100	100	100
62H33	BT. 2	100	100	100	100	100
	BT. 6	100	100	100	100	100
62H34	BT. 2	100	100	100	100	100
	BT. 6	100	100	100	100	100
62H82	BT. 2	100	100	100	100	100
	BT. 6	100	100	100	100	100



**TABLE 19: UNIT 4 DOMES – SQ6.0 – GREASE CAP REMOVAL**

UNIT 4 DOMES SQ6.0 – GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
2D07	NEAR BT.2	100	100	100	100	100
	NEAR BT.6	100	100	100	100	100
2D08	NEAR BT.2	100	100	100	100	100
	NEAR BT.6	100	100	100	100	100
2D34	NEAR BT.2	100	100	100	100	100
	NEAR BT.5	N/A	N/A	N/A	N/A	N/A
3D20	NEAR BT.3	100	100	100	100	100
	NEAR BT.6	100	100	100	100	100
3D25	NEAR BT.3	100	100	100	100	100
	NEAR BT.6	100	100	100	100	100
3D31	NEAR BT.3	100	100	100	100	100
	NEAR BT.6	100	100	100	100	100



After initial inspections are completed and samples collected, the anchorage components are cleaned with solvent so a full VT-1 inspection can be performed.



**TABLE 20: UNIT 4 ADDITIONAL WORK – SQ6.0 – GREASE CAP REMOVAL**

UNIT 4 ADDITIONAL WORK: SQ6.0 – GREASE CAP REMOVAL						
TENDON	END	GREASE COATING (%)				
		GREASE CAP	BUTTON HEADS	ANCHOR HEAD	SHIMS	BEARING PLATE
12V19	DOME	100	100	100	100	100
	GALLERY	100	100	100	100	100
34V02	DOME	N/A	N/A	N/A	N/A	N/A
	GALLERY	100	100	100	100	100
51H01	BT. 1	100	100	100	100	100
	BT. 5	100	100	100	100	100
1D28	BT. 4	N/A	N/A	N/A	N/A	N/A
3D30	BT. 3	N/A	N/A	N/A	N/A	N/A

4.2 SQ6.1 – INSPECT FOR WATER

4.2.1 Water Inspections were recorded on Data Sheet SQ 6.1 and are summarized in Tables 21 thru 24. In Tables 21 thru 24, "N/A" indicates the cap was not removed.

4.2.2 Water was detected on a combined seven tendon ends between Units 3 & 4. A complete visual inspection was performed on the subject tendon ends and it was determined per the inspection that adequate grease coverage was present, and all of the anchorage components corrosion level criteria have been met. Grease samples were collected and tested for the subject tendon ends as required by PSC Procedure SQ7.2 and all test criteria were met.

4.2.3 The water samples collected have been evaluated for pH value as required by IWL-2525.2(b). The laboratory analysis of the water samples was performed per PSC Procedure SQ6.2. A Condition Report was generated for each subject tendon listed below and the full evaluation is included in this report in Appendix D. The pH for all subject water samples were >7.0 and are deemed acceptable. If the pH value is above 7.0 the water is non-acidic. Hence, the water sample results indicate the water is not conducive to aggressive corrosion. Therefore, it is concluded that the detected condition on all subject tendons has not created any adverse effect on the tendons.

4.2.3.1 The inspection for water on the Unit 3 tendons detected four tendons with water. The subject tendons for Unit 3 are 35H39/BT3 (Ref. CR2007-2213), 35H50/BT3 (Ref. CR2007-7005), 51H30/BT1 (Ref. CR2007-7005) and 64H62/BT6 (Ref. CR2007-8071)

4.2.3.2 The inspection for water on the Unit 4 tendons detected three tendons with water. The subject tendons for Unit 4 are 45V10/Gallery (Ref. CR2007-2213), 12V19/Gallery (Ref. CR2007-4658) and 51H01/BT5 (Ref. CR2007-6494)



**TABLE 21: UNIT 3 VERTICALS/HOOPS – SQ6.1 – INSPECT FOR WATER**

UNIT 3 SQ6.1 – INSPECT FOR WATER					
VERTICAL SURVEILLANCE TENDONS			HOOP SURVEILLANCE TENDONS		
TENDON	END	WATER QUANTITY	TENDON	END	WATER QUANTITY
12V06	DOME	0	13H10	BT. 1	0
	GALLERY	0		BT. 3	N/A
12V22	DOME	0	13H31	BT. 1	0
	GALLERY	0		BT. 3	0
45V02	DOME	0	35H39	BT. 3	5 oz <sup>(1)</sup>
	GALLERY	0		BT. 5	0
45V11	DOME	0	51H03	BT. 1	0
	GALLERY	0		BT. 5	0
45V28	DOME	0	51H18	BT. 1	0
	GALLERY	0		BT. 5	0
56V22	DOME	0	51H33	BT. 1	0
	GALLERY	0		BT. 5	0
61V01	DOME	0	51H35	BT. 1	0
	GALLERY	0		BT. 5	0
			62H55	BT. 2	0
				BT. 6	0
			64H75	BT. 4	0
				BT. 6	0

(1) – ACCEPTABLE PER CR2007-2213 EVALUATION



DOCUMENT NUMBER: PTN/PSC-TP-N981-508

REVISION: 0 PAGE: 24

DOCUMENT TITLE: FINAL REPORT FOR THE 35<sup>TH</sup> YEAR CONTAINMENT IWL INSPECTION

PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT

DATE: 05/25/07



**TABLE 22: UNIT 3 DOMES/ADDITIONAL WORK – SQ6.1 – INSPECT FOR WATER**

UNIT 3: SQ6.2 – INSPECT FOR WATER					
DOME SURVEILLANCE TENDONS			ADDITIONAL WORK TENDONS		
TENDON	END	WATER QUANTITY	TENDON	END	WATER QUANTITY
2D16	NEAR BT.1	0	12V03	GALLERY	0
	NEAR BT.4	0	12V05	GALLERY	0
2D17	NEAR BT.1	0	12V14	GALLERY	0
	NEAR BT.4	0	34V13	GALLERY	0
2D40	NEAR BT.1	0	56V19	GALLERY	0
	NEAR BT.4	N/A	56V20	GALLERY	0
3D08	NEAR BT.4	0	56V25	GALLERY	0
	NEAR BT.6	0	56V29	GALLERY	0
3D51	NEAR BT.1	0	56V30	GALLERY	0
	NEAR BT.2	0	61V03	GALLERY	0
3D52	NEAR BT.1	0	61V07	GALLERY	0
	NEAR BT.2	0	61V09	GALLERY	0
			61V22	GALLERY	0
			61V25	GALLERY	0
			61V30	GALLERY	0
			35H50	BT. 3	≈1 oz <sup>(1)</sup>
			35H51	BT. 3	0
			35H52	BT. 3	0
			51H02	BT. 1	0
			51H30	BT. 1	6 oz <sup>(1)</sup>
			51H31	BT. 1	0
			51H63	BT. 1	0
			64H62	BT. 6	1 oz <sup>(2)</sup>
			1D10	BT. 3	0
			2D08	BT. 3	0
			2D09	BT. 3	0
			2D21	BT. 4-3	0
			2D22	BT. 3	0
			2D49	BT. 6	0

(1) ACCEPTABLE PER CR2007-7005 EVALUATION  
 (2) ACCEPTABLE PER CR2007-8071 EVALUATION



**TABLE 23: UNIT 4 VERTICALS/HOOPS – SQ6.1 – INSPECT FOR WATER**

UNIT 4 - SQ6.1 - INSPECT FOR WATER					
VERTICAL SURVEILLANCE TENDONS			HOOP SURVEILLANCE TENDONS		
TENDON	END	WATER QUANTITY	TENDON	END	WATER QUANTITY
12V03	DOME	0	13H70	BT. 1	0
	GALLERY	0		BT. 3	0
34V02	DOME	0	35H25	BT. 3	0
	GALLERY	0		BT. 5	N/A
34V23	DOME	0	35H34	BT. 3	0
	GALLERY	0		BT. 5	0
45V10	DOME	0	42H16	BT. 2	0
	GALLERY	12 oz <sup>(1)</sup>		BT. 4	0
45V23	DOME	0	42H19	BT. 2	0
	GALLERY	0		BT. 4	0
56V20	DOME	0	42H31	BT. 2	0
	GALLERY	0		BT. 4	0
56V30	DOME	0	42H32	BT. 2	0
	GALLERY	0		BT. 4	0
			51H40	BT. 1	0
				BT. 5	0
			62H33	BT. 2	0
				BT. 6	0
			62H34	BT. 2	0
				BT. 6	0
			62H82	BT. 2	0
				BT. 6	0

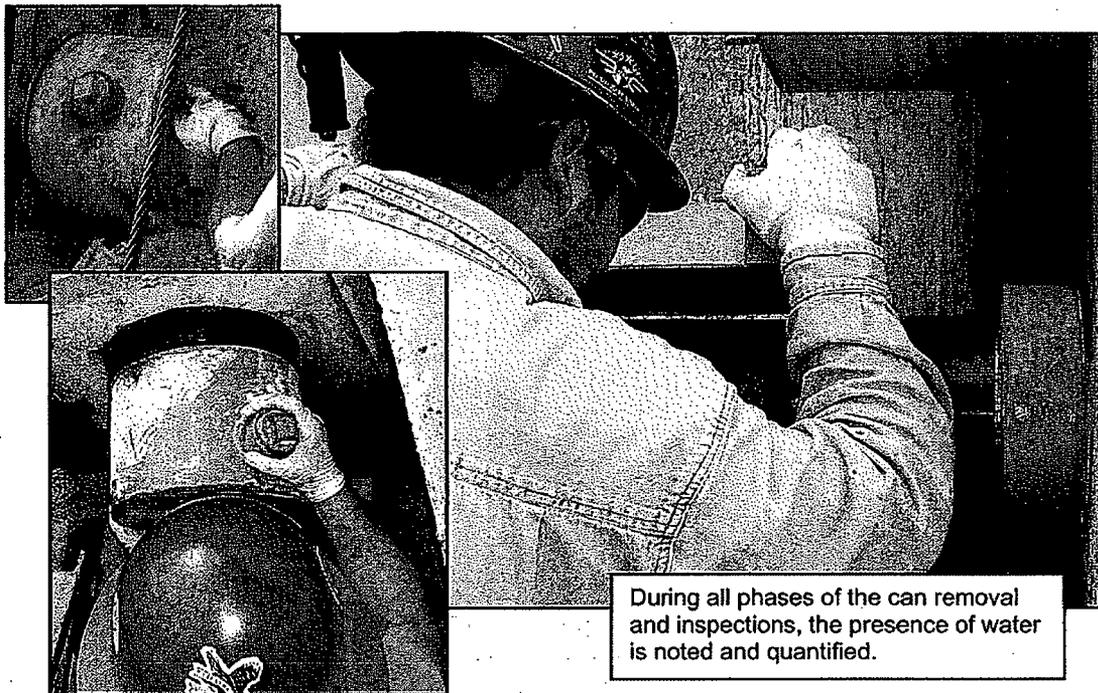
(1) ACCEPTABLE PER CR2007-2213 EVALUATION



**TABLE 24: UNIT 4 DOMES/ADDITIONAL WORK – SQ6.1 – INSPECT FOR WATER**

UNIT 4: SQ6.1 – INSPECT FOR WATER					
DOME SURVEILLANCE TENDONS			ADDITIONAL WORK TENDONS		
TENDON	END	WATER QUANTITY	TENDON	END	WATER QUANTITY
2D07	NEAR BT.2	0	12V19	DOME	0
	NEAR BT.6	0		GALLERY	1 oz <sup>(1)</sup>
2D08	NEAR BT.2	0	34V02	DOME	N/A
	NEAR BT.6	0		GALLERY	N/A
2D34	NEAR BT.2	0	51H01	BT. 1	0
	NEAR BT.5	N/A		BT. 5	< 1 oz <sup>(2)</sup>
3D20	NEAR BT.3	0	1D28	BT. 4	0
	NEAR BT.6	0	3D30	BT. 3	0
3D25	NEAR BT.3	0			
	NEAR BT.6	0			
3D31	NEAR BT.3	0			
	NEAR BT.6	0			

(1) ACCEPTABLE PER CR2007-4658 EVALUATION  
 (2) ACCEPTABLE PER CR2007-6494 EVALUATION



During all phases of the can removal and inspections, the presence of water is noted and quantified.



4.3 SQ8.0 – ANCHORAGE CORROSION CONDITON

4.3.1 The anchorage components (anchorhead, buttonheads, shims and bearing plate) were inspected for corrosion level and cracks per PSC Procedure SQ 8.0. The results were recorded on Data Sheet SQ 8.0 and are summarized in Tables 25 thru 30. In Table 25 thru 30, "N/A" indicates no inspection was performed.

4.3.2 The corrosion level for all of the inspected buttonheads was either:

*A-Excellent Condition: Bright, uniformly colored wire; no foreign matter, visible rust or pitting. No cleaning for inspection is required. Two heavy passes with 100 grit sandpaper to bright metal.*

Or

*B-Good Condition: Partial loss of color; little foreign matter and a small quantity of light rust may be present; no pitting. The oxide coat will be more discernable when viewed parallel to the length of the wire. Rag, wipe cleaning may be required for inspection. Five heavy passes with 100 grit sandpaper to bright metal.*

4.3.2.1 The corrosion level for all of the inspected anchorheads, shims and bearing plates were either

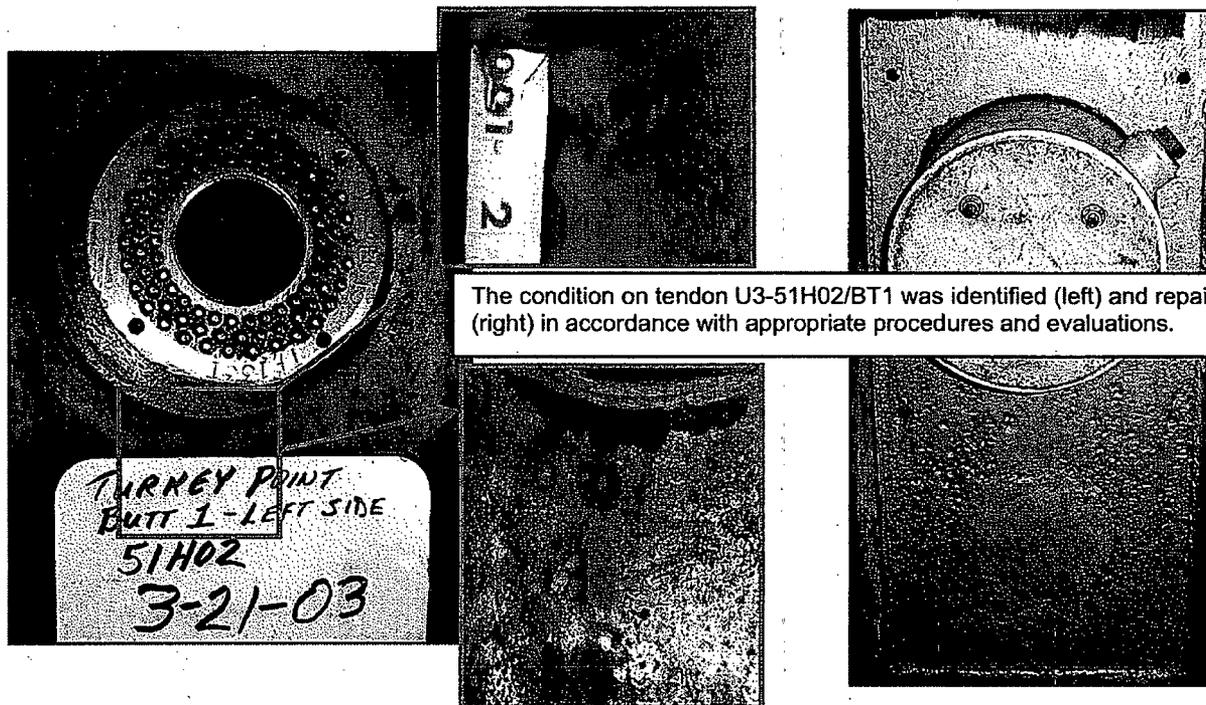
*Level 1 - "No visible oxidation"*

Or

*Level 2- "Metal reddish brown color, no pitting."*

on all inspected tendons ends except two. No evidence of cracking was observed on any of the anchorage components.

4.3.2.2 The bearing plates on U3-51H02/BT1 and U4-51H01/BT5 were detected with Level 5 corrosion. The revealed corrosion is outside of the gasket seating area. These two tendons ends were evaluated deemed acceptable per CR2007-7394 and CR2007-6494, respectively. All of the Condition Reports are included in Appendix D of this report.



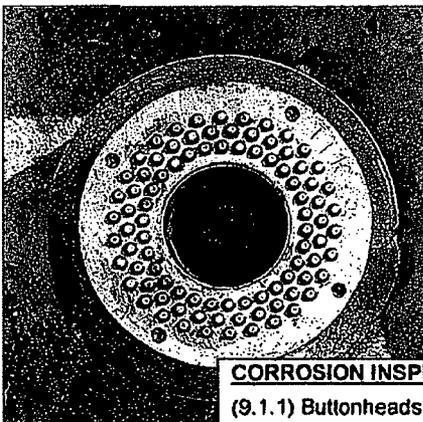


**TABLE 25: UNIT 3 VERTICALS – SQ8.0 – ANCHORAGE CORROSION CONDITON**

UNIT 3 VERTICALS: SQ 8.0 – ANCHORAGE CORROSION CONDITON						
TENDON	END	ANCHOR I.D.	BUTTON HEADS	CORROSION LEVEL CRACKS		
				ANCHOR HEAD	SHIMS	BEARING PLATE
12V06	DOME	TW173	A	1, NONE	1, NONE	2, NONE
	GALLERY	TW186	A	1, NONE	1, NONE	1, NONE
12V22	DOME	TP1093	A	1, NONE	1, NONE	2, NONE
	GALLERY	TP171	A	1, NONE	N/A	1, NONE
45V02	DOME	TP1134	A	2, NONE	2, NONE	2, NONE
	GALLERY	PC30	A	1, NONE	N/A	2, NONE
45V11	DOME	TP1110	A	2, NONE	2, NONE	2, NONE
	GALLERY	TP1050	A	1, NONE	1, NONE	1, NONE
45V28	DOME	TP14	A	2, NONE	2, NONE	2, NONE
	GALLERY	PC3	A	2, NONE	N/A	1, NONE
56V22	DOME	TW177	A	2, NONE	1, NONE	2, NONE
	GALLERY	TP179	A	1, NONE	N/A	1, NONE
61V01	DOME	TW201	A	1, NONE	1, NONE	2, NONE
	GALLERY	TP186	A	1, NONE	N/A	1, NONE

INDICATES CORROSION LEVEL → 1, NONE ← INDICATES # OF CRACKS

- 1 - No visible oxidation.
- 2 - Metal reddish brown color, no pitting.
- 3 - Pitting: 0.000" ≤ 0.003"
- 4 - 0.003" < Pitting ≤ 0.006"
- 5 - 0.006" < Pitting ≤ 0.010"



Inspection Results and picture of corrosion inspection on U3-12V22/Dome

CORROSION INSPECTION			
(9.1.1) Buttonheads	Level: <b>A</b> <sup>(1)</sup>		
(9.1.1) Anchorhead	Level: <b>1</b> <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
(9.1.1) Shims	Level: <b>1</b> <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
(9.1.1) Bearing Plate	Level: <b>2</b> <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

<sup>(1)</sup> - Corrosion Level of E, requires an NCR. <sup>(2)</sup> - Corrosion Levels of 3, 4, or 5, requires an NCR.  
<sup>(3)</sup> - Compose a sketch of the cracks on Sketch Sheet 8.0 and initiate an NCR.



**TABLE 26: UNIT 3 HOOPS – SQ8.0 – ANCHORAGE CORROSION CONDITON**

UNIT 3 HOOPS, SQ 8.0 – ANCHORAGE CORROSION CONDITON						
TENDON	END	ANCHOR ID	BUTTON HEADS	CORROSION LEVEL, CRACKS		
				ANCHOR HEAD	SHIMS	BEARING PLATE
13H10	BT. 1	TP183	A	2, NONE	1, NONE	1, NONE
	BT. 3	N/A	N/A	N/A	N/A	N/A
13H31	BT. 1	TP276	A	2, NONE	1, NONE	1, NONE
	BT. 3	TP1643	A	1, NONE	1, NONE	1, NONE
35H39	BT. 3	TP1589	A	2, NONE	2, NONE	1, NONE
	BT. 5	TP1201	A	2, NONE	2, NONE	2, NONE
51H03	BT. 1	TP1123	A	2, NONE	1, NONE	1, NONE
	BT. 5	TP1157	A	2, NONE	2, NONE	2, NONE
51H18	BT. 1	TP1911	A	2, NONE	2, NONE	1, NONE
	BT. 5	TP917	A	2, NONE	2, NONE	1, NONE
51H33	BT. 1	TP49	A	1, NONE	1, NONE	1, NONE
	BT. 5	TP122	A	1, NONE	2, NONE	1, NONE
51H35	BT. 1	TP48	A	1, NONE	1, NONE	1, NONE
	BT. 5	TP124	A	1, NONE	1, NONE	1, NONE
62H55	BT. 2	TP127	A	1, NONE	1, NONE	1, NONE
	BT. 6	TW88	A	1, NONE	1, NONE	1, NONE
64H75	BT. 4	TP898	B	2, NONE	2, NONE	1, NONE
	BT. 6	TP1350	A	2, NONE	2, NONE	1, NONE
35H50*	BT. 3	TP623	A	2, NONE	2, NONE	2, NONE
51H02*	BT. 1	TP1331	A	2, NONE	2, NONE	5, NONE <sup>(1)</sup>
51H30*	BT. 1	TP259	A	1, NONE	1, NONE	1, NONE
64H62*	BT. 6	TP815	A	2, NONE	2, NONE	1, NONE

\* THESE TENDONS WERE PART OF THE ADDITIONAL WORK SCOPE.  
 (1) ACCEPTABLE PER REFERENCE CR2007-7394 EVALUATION

INDICATES CORROSION LEVEL → 1, NONE ← INDICATES # OF CRACKS

- 1 - No visible oxidation.
- 2 - Metal reddish brown color, no pitting.
- 3 - Pitting: 0.000" ≤ 0.003"
- 4 - 0.003" < Pitting ≤ 0.006"
- 5 - 0.006" < Pitting ≤ 0.010"



**TABLE 27: UNIT 3 DOMES – SQ8.0 – ANCHORAGE CORROSION CONDITON**

UNIT 3 DOMES SQ 8.0 – ANCHORAGE CORROSION CONDITON						
TENDON	END	ANCHOR I.D.	BUTTON HEADS	CORROSION LEVEL, CRACKS		
				ANCHOR HEAD	SHIMS	BEARING PLATE
2D16	NEAR BT.1	TP2789	A	2, NONE	1, NONE	1, NONE
	NEAR BT.4	TP932	A	2, NONE	2, NONE	1, NONE
2D17	NEAR BT.1	TF1446	A	2, NONE	1, NONE	1, NONE
	NEAR BT.4	TP1265	A	2, NONE	2, NONE	1, NONE
2D40	NEAR BT.1	TP730	A	2, NONE	2, NONE	1, NONE
	NEAR BT.4	N/A	N/A	N/A	N/A	N/A
3D08	NEAR BT.4	TP701	A	2, NONE	2, NONE	1, NONE
	NEAR BT.6	TP1481	A	2, NONE	1, NONE	1, NONE
3D51	NEAR BT.1	TP1275	A	2, NONE	2, NONE	1, NONE
	NEAR BT.2	TP1419	A	2, NONE	1, NONE	1, NONE
3D52	NEAR BT.1	TP1380	B	2, NONE	2, NONE	2, NONE
	NEAR BT.2	TF234	A	2, NONE	2, NONE	1, NONE

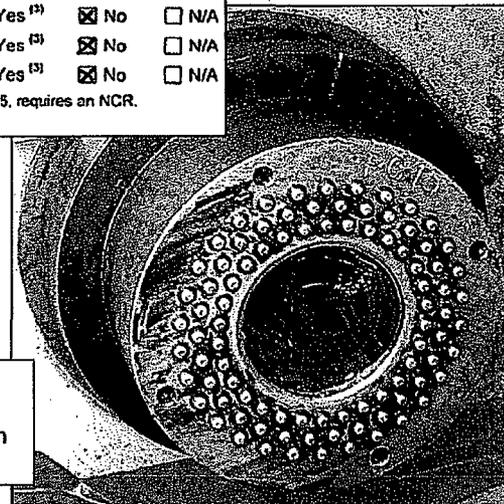
INDICATES CORROSION LEVEL → 1, NONE ← INDICATES # OF CRACKS

- 1 - No visible oxidation.
- 2 - Metal reddish brown color, no pitting.
- 3 - Pitting: 0.000" ≤ 0.003"
- 4 - 0.003" < Pitting ≤ 0.006"
- 5 - 0.006" < Pitting ≤ 0.010"

CORROSION INSPECTION			
(9.1.1) Buttonheads	Level: <b>A</b> <sup>(1)</sup>		
(9.1.1) Anchorhead	Level: <b>2</b> <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
(9.1.1) Shims	Level: <b>2</b> <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
(9.1.1) Bearing Plate	Level: <b>1</b> <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

<sup>(1)</sup> - Corrosion Level of E, requires an NCR. <sup>(2)</sup> - Corrosion Levels of 3, 4, or 5, requires an NCR.  
<sup>(3)</sup> - Compose a sketch of the cracks on Sketch Sheet 8.0 and initiate an NCR.

Inspection Results and picture of corrosion inspection on U3-3D51/BT.1



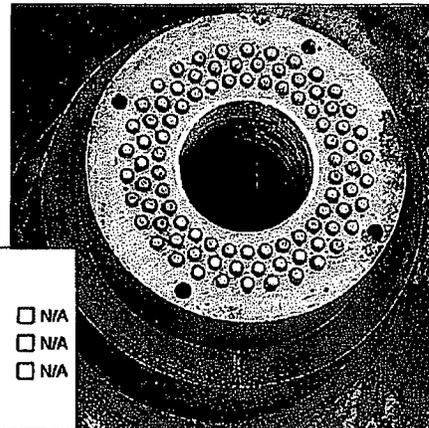


**TABLE 28: UNIT 4 VERTICALS – SQ8.0 – ANCHORAGE CORROSION CONDITON**

UNIT 4 VERTICALS - SQ 8.0 - ANCHORAGE CORROSION CONDITON						
TENDON	END	ANCHOR I.D.	BUTTON HEADS	CORROSION LEVEL, CRACKS		
				ANCHOR HEAD	SHIMS	BEARING PLATE
12V03	DOME	TD154	A	1, NONE	1, NONE	1, NONE
	GALLERY	TP2537	A	2, NONE	2, NONE	1, NONE
12V19	DOME	TP2839	B	2, NONE	2, NONE	2, NONE
	GALLERY	TP2428	A	2, NONE	2, NONE	1, NONE
34V02	DOME	TP3278	A	2, NONE	1, NONE	1, NONE
	GALLERY	TP2370	B	2, NONE	1, NONE	1, NONE
34V23	DOME	TP1961	A	2, NONE	2, NONE	2, NONE
	GALLERY	TP2	A	1, NONE	1, NONE	1, NONE
45V10	DOME	TP2058	A	1, NONE	1, NONE	2, NONE
	GALLERY	TP2543	A	2, NONE	1, NONE	1, NONE
45V23	DOME	TP2968	B	2, NONE	2, NONE	2, NONE
	GALLERY	TP2690	B	2, NONE	2, NONE	1, NONE
56V20	DOME	TD85	A	1, NONE	1, NONE	1, NONE
	GALLERY	TP2468	A	2, NONE	1, NONE	1, NONE
56V30	DOME	TD112	A	1, NONE	1, NONE	1, NONE
	GALLERY	TP2400	A	2, NONE	1, NONE	1, NONE

INDICATES CORROSION LEVEL → 1, NONE ← INDICATES # OF CRACKS

- 1 - No visible oxidation.
- 2 - Metal reddish brown color, no pitting.
- 3 - Pitting: 0.000" ≤ 0.003"
- 4 - 0.003" < Pitting ≤ 0.006"
- 5 - 0.006" < Pitting ≤ 0.010"



CORROSION INSPECTION		Inspection Results and picture of corrosion inspection on U4-45V23/DOME		
(9.1.1) Buttonheads	Level: 5 <sup>(1)</sup>			<input type="checkbox"/> N/A
(9.1.1) Anchorhead	Level: 2 <sup>(2)</sup>	(10.1 &		<input type="checkbox"/> N/A
(9.1.1) Shims	Level: 3 <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
(9.1.1) Bearing Plate	Level: 3 <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup> <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A

<sup>(1)</sup> - Corrosion Level of E, requires an NCR. <sup>(2)</sup> - Corrosion Levels of 3, 4, or 5, requires an NCR.  
<sup>(3)</sup> - Compose a sketch of the cracks on Sketch Sheet 8.0 and initiate an NCR.



**TABLE 29: UNIT 4 HOOPS – SQ8.0 – ANCHORAGE CORROSION CONDITON**

UNIT 4 HOOPS. SQ 8.0 – ANCHORAGE CORROSION CONDITON						
TENDON	END	ANCHOR I.D.	BUTTON HEADS	CORROSION LEVEL, CRACKS		
				ANCHOR HEAD	SHIMS	BEARING PLATE
13H70	BT. 1	TP3177	A	2, NONE	1, NONE	1, NONE
	BT. 3	OC3228	B	2, NONE	2, NONE	1, NONE
35H25	BT. 3	TP3048	A	2, NONE	2, NONE	2, NONE
	BT. 5	N/A	N/A	N/A	N/A	N/A
35H34	BT. 3	TP488	A	2, NONE	1, NONE	1, NONE
	BT. 5	TP2854	A	2, NONE	2, NONE	1, NONE
42H16	BT. 2	TP2652	A	2, NONE	2, NONE	1, NONE
	BT. 4	TP2877	A	2, NONE	2, NONE	2, NONE
42H19	BT. 2	TP2506	A	2, NONE	2, NONE	1, NONE
	BT. 4	TP1918	A	2, NONE	1, NONE	1, NONE
42H31	BT. 2	TP2689	A	2, NONE	2, NONE	1, NONE
	BT. 4	TP3616	A	2, NONE	1, NONE	1, NONE
42H32	BT. 2	TP2653	A	2, NONE	2, NONE	1, NONE
	BT. 4	TP2884	A	2, NONE	1, NONE	1, NONE
51H01	BT. 1	TP2795	B	2, NONE	1, NONE	1, NONE
	BT. 5	TP1426	A	1, NONE	1, NONE	5, NONE (1)
51H40	BT. 1	TD58	A	1, NONE	1, NONE	1, NONE
	BT. 5	TE7	A	1, NONE	1, NONE	1, NONE
62H33	BT. 2	TD97	A	1, NONE	1, NONE	1, NONE
	BT. 6	TD71	A	1, NONE	1, NONE	1, NONE
62H34	BT. 2	TD98	A	1, NONE	1, NONE	1, NONE
	BT. 6	TD51	A	1, NONE	1, NONE	1, NONE
62H82	BT. 2	TP340	A	1, NONE	1, NONE	1, NONE
	BT. 6	TP2218	A	2, NONE	2, NONE	1, NONE

(1) ACCPETABLE PER CR2007-6494 EVALUATION

INDICATES CORROSION LEVEL → 1, NONE ← INDICATES # OF CRACKS

- 1 - No visible oxidation.
- 2 - Metal reddish brown color, no pitting.
- 3 - Pitting:  $0.000" \leq 0.003"$
- 4 -  $0.003" < \text{Pitting} \leq 0.006"$
- 5 -  $0.006" < \text{Pitting} \leq 0.010"$

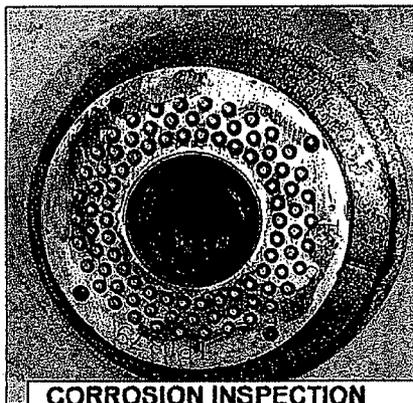


**TABLE 30: UNIT 4 DOMES – SQ8.0 – ANCHORAGE CORROSION CONDITON**

UNIT 4 DOMES SQ 8.0 – ANCHORAGE CORROSION CONDITON						
TENDON	END	ANCHOR I.D.	BUTTON HEADS	CORROSION LEVEL, CRACKS		
				ANCHOR HEAD	SHIMS	BEARING PLATE
2D07	NEAR BT.2	TP325	A	2, NONE	1, NONE	1, NONE
	NEAR BT.6	TP2392	B	2, NONE	2, NONE	2, NONE
2D08	NEAR BT.2	TP1909	A	2, NONE	1, NONE	1, NONE
	NEAR BT.6	TP531	A	2, NONE	1, NONE	2, NONE
2D34	NEAR BT.2	TP1879	A	2, NONE	2, NONE	1, NONE
	NEAR BT.6	N/A	N/A	N/A	N/A	N/A
3D20	NEAR BT.3	TP403	A	2, NONE	1, NONE	1, NONE
	NEAR BT.6	PC2267	A	2, NONE	1, NONE	1, NONE
3D25	NEAR BT.3	TP2124	A	2, NONE	1, NONE	1, NONE
	NEAR BT.6	TP331	A	2, NONE	2, NONE	1, NONE
3D31	NEAR BT.3	TP1719	A	2, NONE	1, NONE	1, NONE
	NEAR BT.6	TP309	A	2, NONE	1, NONE	1, NONE

INDICATES CORROSION LEVEL ← 1, NONE ← INDICATES # OF CRACKS

- 1 - No visible oxidation.
- 2 - Metal reddish brown color, no pitting.
- 3 - Pitting: 0.000" ≤ 0.003"
- 4 - 0.003" < Pitting ≤ 0.006"
- 5 - 0.006" < Pitting ≤ 0.010"



Inspection Results and picture of corrosion inspection on U4-2D34/BT.2

**CORROSION INSPECTION**

(9.1.1) Buttonheads	Level: A <sup>(1)</sup>			
(9.1.1) Anchorhead	Level: 2 <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup>	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
(9.1.1) Shims	Level: 2 <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup>	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
(9.1.1) Bearing Plate	Level: 1 <sup>(2)</sup>	(10.1 & 10.2) Cracks	<input type="checkbox"/> Yes <sup>(3)</sup>	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

<sup>(1)</sup> - Corrosion Level of E, requires an NCR. <sup>(2)</sup> - Corrosion Levels of 3, 4, or 5, requires an NCR.  
<sup>(3)</sup> - Compose a sketch of the cracks on Sketch Sheet 8.0 and initiate an NCR.



4.4 SQ8.0 – BUTTONHEAD COUNT

4.4.1 The inspection for protruding and missing buttonheads was performed and documented per PSC procedure SQ 8.0. The buttonheads were inspected for their physical condition. This inspection is performed to acquire information on the function of the tendon, since the original installation or previous surveillance. A missing and/or protruding buttonhead decreases the amount of effective wires in the tendon. All conditions for buttonheads and wires, whether missing or defective, have been documented. The results of these inspections are recorded on Data Sheet SQ 8.0, and are summarized in Tables 31 thru 36. In Tables 31 thru 36, "N/A" indicates no inspection was performed.

4.4.2 No protruding buttonheads were detected on any of the inspected tendon ends. The inspection of U3-13H31 detected a missing buttonhead on both ends of the tendon. In accordance with Turkey Point Technical Requirements (Reference 13.7), this type of condition must be evaluated by the FPL condition reporting process. Condition report CR2007-2744 was generated to evaluate the subject condition and deemed acceptable. Two tendon ends on Unit 3, 12V22/Gallery and 45V11/Gallery and three tendon ends on Unit 4, 12V03/Gallery, 56V20/Gallery and 42H31/BT2 were detected with one missing buttonhead. One missing buttonhead per tendon is acceptable per the inspection criteria stated in Reference 13.7.

**TABLE 31: UNIT 3 VERTICALS – SQ8.0 – BUTTONHEAD COUNT**

UNIT 3 VERTICALS - SQ 8.0 - BUTTONHEAD COUNT										
TENDON	END	ORIGINAL		AS FOUND		AS LEFT		REMOVED FOR TESTING	EFFECTIVE WIRES AS FOUND	EFFECTIVE WIRES AS LEFT
		PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING			
12V06	DOME	0	0	0	0	0	1	1	90	89
	GALLERY	0	0	0	0	0	1	1	90	89
12V22	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	1 <sup>(1)</sup>	0	1	0	89	89
45V02	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90
45V11	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	1	0	1	0	89	89
45V28	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90
56V22	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90
61V01	DOME	0	0	0	3 <sup>(1)</sup>	0	3	0	87	87
	GALLERY	0	0	0	3 <sup>(1)</sup>	0	3	0	87	87

(1) DOCUMENTED AND ACCEPTED DURING PAST INSPECTIONS



**TABLE 32: UNIT 3 HOOPS – SQ8.0 – BUTTONHEAD COUNT**

UNIT 3 HOOPS SQ 8.0 – BUTTONHEAD COUNT										
TENDON	END	ORIGINAL		AS FOUND		AS LEFT		REMOVED FOR TESTING	EFFECTIVE WIRES AS FOUND	EFFECTIVE WIRES AS LEFT
		PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING			
13H10	BT. 1	0	0	0	0	0	0	0	90	90
	BT. 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13H31	BT. 1	0	0	0	1 <sup>(1)</sup>	0	1 <sup>(1)</sup>	0	89	89
	BT. 3	0	0	0	1 <sup>(1)</sup>	0	1 <sup>(1)</sup>	0	89	89
35H39	BT. 3	0	0	0	0	0	0	0	90	90
	BT. 5	0	0	0	0	0	0	0	90	90
51H03	BT. 1	0	0	0	0	0	0	0	90	90
	BT. 5	0	0	0	0	0	0	0	90	90
51H18	BT. 1	0	0	0	0	0	0	0	90	90
	BT. 5	0	0	0	0	0	0	0	90	90
51H33	BT. 1	0	0	0	0	0	0	0	90	90
	BT. 5	0	0	0	0	0	0	0	90	90
51H35	BT. 1	0	0	0	0	0	0	0	90	90
	BT. 5	0	0	0	0	0	0	0	90	90
62H55	BT. 2	0	0	0	0	0	1	1	90	89
	BT. 6	0	0	0	0	0	1	1	90	89
64H75	BT. 4	0	0	0	0	0	0	0	90	90
	BT. 6	0	0	0	0	0	0	0	90	90
35H50*	BT. 3	0	0	0	0	0	0	0	90	90
51H02*	BT. 1	0	0	0	0	0	0	0	90	90
51H30*	BT. 1	0	0	0	0	0	0	0	90	90
64H62*	BT. 6	0	0	0	0	0	0	0	90	90

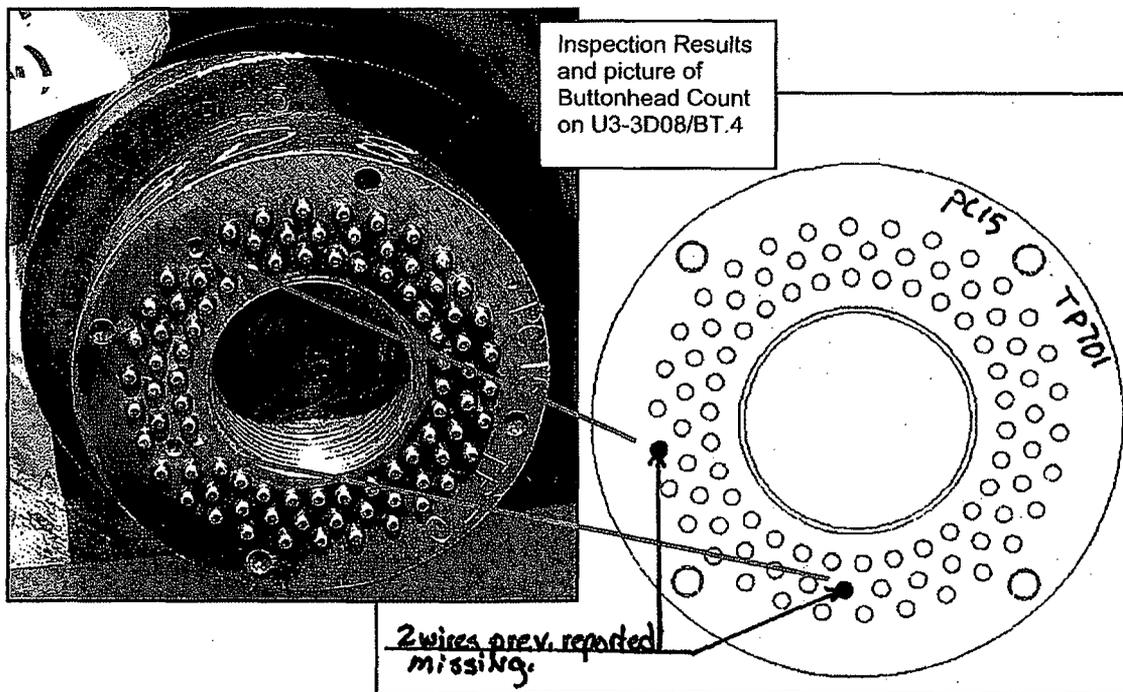
\* THESE TENDONS WERE PART OF THE ADDITIONAL WORK SCOPE.  
 (1) ACCEPTABLE PER CR2007-2744 EVALUATION



**TABLE 33: UNIT 3 DOMES – SQ8.0 – BUTTONHEAD COUNT**

UNIT 3 DOMES: SQ 8.0 – BUTTONHEAD COUNT										
TENDON	END	ORIGINAL		AS FOUND		AS LEFT		REMOVED FOR TESTING	EFFECTIVE WIRES AS FOUND	EFFECTIVE WIRES AS LEFT
		PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING			
2D16	NEAR BT.1	0	0	0	0	0	0	0	90	90
	NEAR BT.4	0	0	0	0	0	0	0	90	90
2D17	NEAR BT.1	0	0	0	0	0	0	0	90	90
	NEAR BT.4	0	0	0	0	0	0	0	90	90
2D40	NEAR BT.1	0	0	0	0	0	0	0	90	90
	NEAR BT.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3D08	NEAR BT.4	0	0	0	2 <sup>(1)</sup>	0	2 <sup>(1)</sup>	0	88	88
	NEAR BT.6	0	0	0	2 <sup>(1)</sup>	0	2 <sup>(1)</sup>	0	88	88
3D51	NEAR BT.1	0	0	0	0	0	0	0	90	90
	NEAR BT.2	0	0	0	0	0	0	0	90	90
3D52	NEAR BT.1	0	0	0	0	0	0	0	90	90
	NEAR BT.2	0	0	0	0	0	0	0	90	90

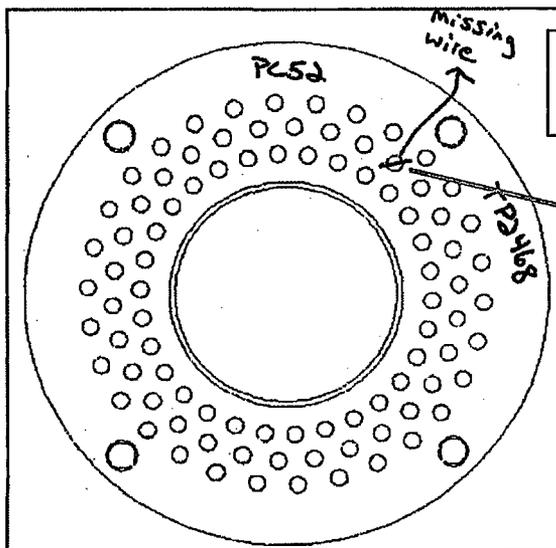
(1) DOCUMENTED AND ACCEPTED DURING PAST INSPECTIONS



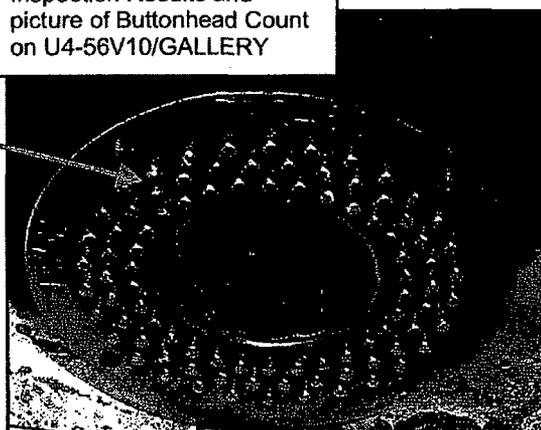


**TABLE 34: UNIT 4 VERTICALS -- SQ8.0 -- BUTTONHEAD COUNT**

UNIT 4 VERTICALS: SQ 8.0 - BUTTONHEAD COUNT										
TENDON	END	ORIGINAL		AS FOUND		AS LEFT		REMOVED FOR TESTING	EFFECTIVE WIRES AS FOUND	EFFECTIVE WIRES AS LEFT
		PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING			
12V03	DOME	0	0	0	0	0	1	1	90	89
	GALLERY	0	0	0	1	0	2	1	89	88
12V19	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90
34V02	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90
34V23	DOME	0	0	0	0	0	1	1	90	89
	GALLERY	0	0	0	0	0	1	1	90	89
45V10	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90
45V23	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90
56V20	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	1	0	1	0	89	89
56V30	DOME	0	0	0	0	0	0	0	90	90
	GALLERY	0	0	0	0	0	0	0	90	90



Inspection Results and picture of Buttonhead Count on U4-56V10/GALLERY

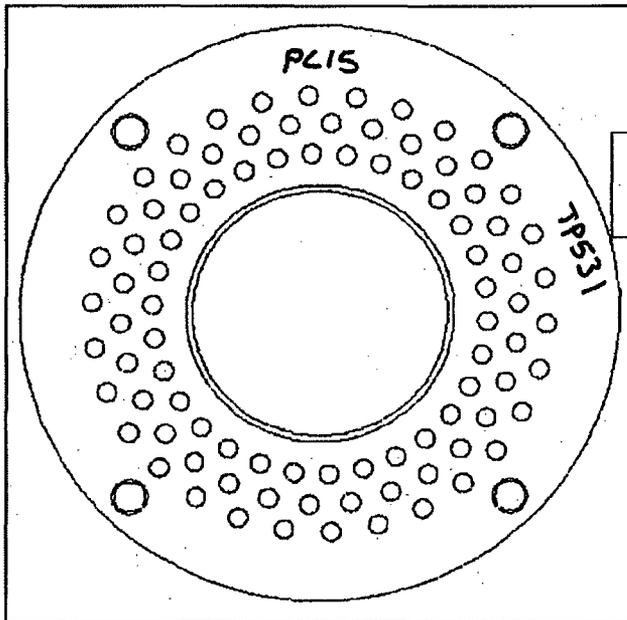




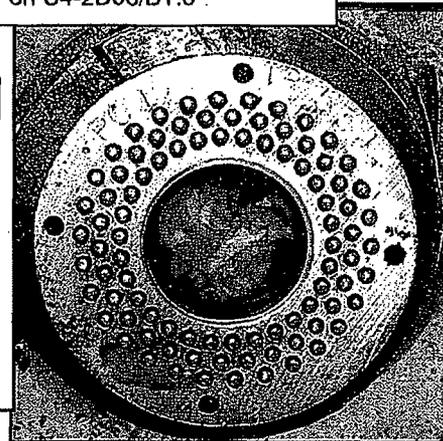


**TABLE 36: UNIT 4 DOMES – SQ8.0 – BUTTONHEAD COUNT**

UNIT 4 DOMES: SQ 8.0 – BUTTONHEAD COUNT										
TENDON	END	ORIGINAL		AS FOUND		AS LEFT		REMOVED FOR TESTING	EFFECTIVE WIRES AS FOUND	EFFECTIVE WIRES AS LEFT
		PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING	PROTRUDE	BROKEN/MISSING			
2D07	NEAR BT.2	0	0	0	0	0	0	0	90	90
	NEAR BT.6	0	0	0	0	0	0	0	90	90
2D08	NEAR BT.2	0	0	0	0	0	0	0	90	90
	NEAR BT.6	0	0	0	0	0	0	0	90	90
2D34	NEAR BT.2	0	0	0	0	0	0	0	90	90
	NEAR BT.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3D20	NEAR BT.3	0	0	0	0	0	0	0	90	90
	NEAR BT.6	0	0	0	0	0	0	0	90	90
3D25	NEAR BT.3	0	0	0	0	0	0	0	90	90
	NEAR BT.6	0	0	0	0	0	0	0	90	90
3D31	NEAR BT.3	0	0	0	0	0	1	1	90	89
	NEAR BT.6	0	0	0	0	0	1	1	90	89



Inspection Results and picture of Buttonhead Count on U4-2D08/BT.6





4.5 SQ8.3 – CONCRETE INSPECTION

4.5.1 A VT-1C Detailed inspection in accordance with the ISI/IWL-PTN-3/4, "ASME Section XI, Sub-Section IWL, Concrete Containment Inservice Inspection Program" and PSC Procedure SQ8.3 was performed on the 24" around the bearing plate. This detailed inspection is performed in order to detect any cracks in the concrete >0.010" in width. The results were recorded on Data Sheet SQ 8.3 and summarized in Tables 37 thru 42. In these tables, "N/A" indicates that an inspection was not performed. None of the inspected tendon ends exhibited concrete cracks exceeding 0.010" around any bearing plate inspected.

**TABLE 37: UNIT 3 VERTICALS – SQ8.3 – CONCRETE INSPECTION**

UNIT 3 VERTICALS: SQ 8.3 – CONCRETE INSPECTION					
TENDON	END	BEARING PLATE I/D	CRACKS WITH WIDTHS > 0.010"		
			QUANTITY	MAXIMUM LENGTH (IN)	MAXIMUM WIDTH (IN)
12V06	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
12V22	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
45V02	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
45V11	DOME	PC13	0	0	0
	GALLERY	NONE FOUND	0	0	0
45V28	DOME	PC13	0	0	0
	GALLERY	NONE FOUND	0	0	0
56V22	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
61V01	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0



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REVISION: 0 PAGE: 41

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DATE: 05/25/07

**TABLE 38: UNIT 3 HOOPS – SQ8.3 – CONCRETE INSPECTION**

UNIT 3 HOOPS SQ 8.3 – CONCRETE INSPECTION					
TENDON	END	BEARING PLATE ID	CRACKS WITH WIDTHS > 0.010"		
			QUANTITY	MAXIMUM LENGTH (IN)	MAXIMUM WIDTH (IN)
13H10	BT. 1	NONE FOUND	0	0	0
	BT. 3	N/A	N/A	N/A	N/A
13H31	BT. 1	NONE FOUND	0	0	0
	BT. 3	NONE FOUND	0	0	0
35H39	BT. 3	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
51H03	BT. 1	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
51H18	BT. 1	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
51H33	BT. 1	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
51H35	BT. 1	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
62H55	BT. 2	PC11	0	0	0
	BT. 6	NONE FOUND	0	0	0
64H75	BT. 4	NONE FOUND	0	0	0
	BT. 6	NONE FOUND	0	0	0
35H50*	BT. 3	NONE FOUND	0	0	0
51H02*	BT. 1	NONE FOUND	0	0	0
51H30*	BT. 1	NONE FOUND	0	0	0
64H62*	BT. 6	NONE FOUND	0	0	0

\* These tendons were part of the additional work scope.



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DOCUMENT TITLE: FINAL REPORT FOR THE 35<sup>TH</sup> YEAR CONTAINMENT IWL INSPECTION  
PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT DATE: 05/25/07



**TABLE 39: UNIT 3 DOMES – SQ8.3 – CONCRETE INSPECTION**

UNIT 3 DOMES: SQ 8.3 – CONCRETE INSPECTION					
TENDON	END	BEARING PLATE ID	CRACKS WITH WIDTHS > 0.010"		
			QUANTITY	MAXIMUM LENGTH (IN)	MAXIMUM WIDTH (IN)
2D16	NEAR BT.1	PC13	0	0	0
	NEAR BT.4	PC3	0	0	0
2D17	NEAR BT.1	NONE FOUND	0	0	0
	NEAR BT.4	PC13	0	0	0
2D40	NEAR BT.1	NONE FOUND	0	0	0
	NEAR BT.4	N/A	N/A	N/A	N/A
3D08	NEAR BT.4	PC16	0	0	0
	NEAR BT.5	PC13	0	0	0
3D51	NEAR BT.1	NONE FOUND	0	0	0
	NEAR BT.2	PC13	0	0	0
3D52	NEAR BT.1	NONE FOUND	0	0	0
	NEAR BT.2	NONE FOUND	0	0	0



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 DOCUMENT TITLE: FINAL REPORT FOR THE 35<sup>TH</sup> YEAR CONTAINMENT IWL INSPECTION  
 PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT DATE: 05/25/07



**TABLE 40: UNIT 4 VERTICALS – SQ8.3 – CONCRETE INSPECTION**

UNIT 4 VERTICALS: SQ 8.3 – CONCRETE INSPECTION					
TENDON	END	BEARING PLATE I.D.	CRACKS WITH WIDTHS > 0.010"		
			QUANTITY	MAXIMUM LENGTH (IN)	MAXIMUM WIDTH (IN)
12V03	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
12V19	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
34V02	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
34V23	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
45V10	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
45V23	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
56V20	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0
56V30	DOME	NONE FOUND	0	0	0
	GALLERY	NONE FOUND	0	0	0



**TABLE 41: UNIT 4 HOOPS – SQ8.3 – CONCRETE INSPECTION**

UNIT 4 HOOPS SQ 8.3 – CONCRETE INSPECTION					
TENDON	END	BEARING PLATE I/D	CRACKS WITH WIDTHS > 0.010"		
			QUANTITY	MAXIMUM LENGTH (IN)	MAXIMUM WIDTH (IN)
13H70	BT. 1	NONE FOUND	0	0	0
	BT. 3	NONE FOUND	0	0	0
35H25	BT. 3	NONE FOUND	0	0	0
	BT. 5	N/A	N/A	N/A	N/A
35H34	BT. 3	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
42H16	BT. 2	NONE FOUND	0	0	0
	BT. 4	NONE FOUND	0	0	0
42H19	BT. 2	PC3	0	0	0
	BT. 4	NONE FOUND	0	0	0
42H31	BT. 2	NONE FOUND	0	0	0
	BT. 4	NONE FOUND	0 <sup>(1)</sup>	0	0
42H32	BT. 2	NONE FOUND	0	0	0
	BT. 4	NONE FOUND	0 <sup>(1)</sup>	0	0
51H01	BT. 1	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
51H40	BT. 1	NONE FOUND	0	0	0
	BT. 5	NONE FOUND	0	0	0
62H33	BT. 2	NONE FOUND	0	0	0
	BT. 6	NONE FOUND	0	0	0
62H34	BT. 2	NONE FOUND	0	0	0
	BT. 6	NONE FOUND	0	0	0
62H82	BT. 2	NONE FOUND	0	0	0
	BT. 6	NONE FOUND	0	0	0

(1) The crack noted on the data sheet is in a grout patch and does not fall under the inspection requirements.



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DOCUMENT TITLE: FINAL REPORT FOR THE 35<sup>TH</sup> YEAR CONTAINMENT IWL INSPECTION  
PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT DATE: 05/25/07



**TABLE 42: UNIT 4 DOMES – SQ8.3 – CONCRETE INSPECTION**

UNIT 4 DOMES SQ 8.3 – CONCRETE INSPECTION					
TENDON	END	BEARING PLATE I-D	CRACKS WITH WIDTHS > 0.010"		
			QUANTITY	MAXIMUM LENGTH (IN)	MAXIMUM WIDTH (IN)
2D07	NEAR BT.2	PC25	0	0	0
	NEAR BT.6	PC25	0	0	0
2D08	NEAR BT.2	NONE FOUND	0	0	0
	NEAR BT.6	PC25	0	0	0
2D34	NEAR BT.2	PC25	0	0	0
	NEAR BT.5	N/A	N/A	N/A	N/A
3D20	NEAR BT.3	NONE FOUND	0	0	0
	NEAR BT.6	PC25	0	0	0
3D25	NEAR BT.3	NONE FOUND	0	0	0
	NEAR BT.6	NONE FOUND	0	0	0
3D31	NEAR BT.3	PC25	0	0	0
	NEAR BT.6	PC25	0	0	0



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DOCUMENT TITLE: FINAL REPORT FOR THE 35<sup>TH</sup> YEAR CONTAINMENT IWL INSPECTION

PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT

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## 5.0 GENERAL EXTERIOR CONCRETE INSPECTION

The examination of containment concrete is scheduled in accordance with 10 CFR 50.55a(g)(6)(ii)(B)(2). The first examination must be performed prior to September 10, 2001. The date of the first examination of concrete must be used to determine the 5-year schedule for subsequent examinations subject to the provisions of IWL-2410(c), i.e. subsequent examinations shall commence not more than one year prior to the specified dates and shall be completed not more than one year after such dates. The date of the first examination shall be the date the Responsible Engineer approves the last VT-3C examination record sheet.

- 5.1 The baseline concrete examination for Units 3 and 4 was completed on 8/16/01 during the 30<sup>th</sup> Year Containment Tendon Surveillance. The subsequent examination of the containment concrete has been performed during this 35<sup>th</sup> Year Containment inspection period for Units 3 and 4. This VT-3C examination was performed on the entire containment building of Unit 3 and 4 in order to identify any new or propagating areas of distress or degradation in comparison to the baseline inspection performed during the 30<sup>th</sup> Year Inspection Period. Additional indications were detected during this inspection period and are listed below. All of the additional indications have been evaluated and do not constitute abnormal degradation of the containment structure and there is no structural concern associated with these indications. This inspection was completed in accordance with PSC Procedure SQ8.4 and FPL-ENG-IWL 2.0. All of the corresponding data sheets are including in Appendix A of this report.
- 5.2 Additional Indications for Unit 3.
- 5.2.1 On the containment wall surface between Buttress 1 and 6 there are approximately 40 unrecorded un-grouted form tie holes between pour level 7 and 10. This detected condition is a result of the recent RVCH project. As a result of the IWL Baseline General Exterior inspection un-grouted form tie holes were deemed acceptable. Therefore, the subject indication is acceptable upon this review.
- 5.2.2 The inspection of the face of Buttress 3 revealed three spalls on the face of the buttress. The areas of these spalls detected are located in non-structural concrete cover. A VT-1C inspection was performed as required at each location and detected a piece of exposed rebar at each location. The subject conditions have been evaluated in CR2007-6413 and deemed acceptable. The exposed sections of rebar have been properly coated as stated in CR2007-6413.
- 5.2.3 Multiple leaking caps (1D28, 1D15, 2D54, 1D14, 1D08, 3D03, 42H33 and 35H55) were detected between Buttress 4 and 6. These tendon ends are inaccessible due to the steam safety release and no repairs were performed. The grease leakage is minor, and based on past experience there will be no significant adverse effect on tendon hardware and wires, due to the leaking grease.
- 5.2.4 Tendon 51H02/BT1 was detected with excessive corrosion and pitting. Subsequently, a visual inspection and cap replacement was performed on this tendon end. The subject condition was evaluated and deemed acceptable per CR2007-7394.
- 5.3 Additional Indications for Unit 4.
- 5.3.1 Approximate 25' south of Buttress 2/74° on the east side of the containments dome surface grease/oil was seeping out of the non-structural lean concrete that covers the top vertical tendon caps. The lean concrete in this area was removed in order to determine the source of the grease/oil leak and make the appropriate repairs. The subject condition was evaluated and deemed acceptable per CR2007-4658.
- 5.3.2 On the containment wall surface between Buttress 1 and 6 there are approximately 100 previously unrecorded grouted form tie holes. This detected condition is a result of the recent RVCH project. As a result of the IWL Baseline General Exterior inspection grouted form tie holes were deemed acceptable. Therefore, the subject indication is acceptable upon this review.
- 5.3.3 Multiple leaking caps (1D28, 1D22, 35H45 to lower levels, 51H77, 51H64, 51H56, 51H54, 51H33 and multiple below 51H33) were detected between Buttress 4 and 6. These tendon ends are inaccessible due to the steam safety release and no repairs were performed. The grease leakage is minor, and based on past experience there will be no significant adverse effect on tendon hardware and wires, due to the leaking grease.



5.3.4 There were several areas where the non-structural corners of buttresses had spalled since the baseline inspection. Many of the spalls consequently exposed the rebar. A detailed inspection and sounding of the buttresses has been performed during this current 35<sup>th</sup> Year Tendon Surveillance. Additional loose areas of the buttress corners, as well as the originally detected areas, have been sounded and/or removed and repaired as deemed necessary by engineering. A detailed summary of the inspections and repairs are included in the evaluation of this condition in CR2007-9034.

**6.0 HYDRAULIC JACK CALIBRATIONS**

6.1 Precision Surveillance Corporation has developed a program for calibrating hydraulic jacks utilizing regression analysis (PSC Procedure QA 12.8.G-W). This is a process where a straight line is mathematically best fit to a set of data points (in this case, force versus gauge pressure). This results in a linear equation which relates the ram area (slope) and constant (y-intercept) for each jack calibration, allowing the conversion of pressure to force and vice versa. Completed calibrations for all of the hydraulic jacks used are contained in Appendix E and are summarized in Table 43.

6.2 A before and after comparison of the stressing jacks' ram areas revealed that none of the hydraulic jacks' calibrations varied by more than 0.90%, indicating that they were in a properly calibrated status. Acceptable variation is 1.5%

6.3 The wire-testing ram, I.D.#7702, was also found within the acceptable variation.

6.4 Note that the force exerted by a jack can be calculated as follows:

$$\text{Force} = \text{Area} \times \text{Pressure} + \text{Constant}$$

(F)      (in<sup>2</sup>)      (KSI)      (K)

**TABLE 43: HYDRAULIC JACK CALIBRATIONS**

HYDRAULIC JACK CALIBRATIONS										
JACK I.D.	BEFORE SURVEILLANCE				AFTER SURVEILLANCE				MAX PRESSURE	% VARIATION
	DATE	AREA (in <sup>2</sup> )	CONSTANT (KIPS)	FORCE (KIPS)	DATE	AREA (in <sup>2</sup> )	CONSTANT (KIPS)	FORCE (KIPS)		
9191	11/30/06	120.717	-4.047	853.044	04/26/07	120.338	-9.018	845.382	7100	+0.898
9192	11/30/06	120.325	-4.875	849.433	04/26/07	120.633	-4.678	851.816	7100	-0.281
9193	11/30/06	120.870	-3.007	1205.693	04/26/07	119.682	-0.106	1198.714	10000	+0.745
9194	11/30/06	120.832	-3.075	1205.245	04/27/07	121.314	-9.315	1203.825	10000	+0.118
9305	12/24/06	103.495	-1.553	996.656	04/27/07	103.778	-2.181	998.758	9645	-0.211
7702	03/23/07	1.587	0.103	13.593	05/08/07	1.590	0.146	13.661	8500	-0.503



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## 7.0 TENDON LIFTOFFS

### 7.1 MONITOR TENDON FORCES

7.1.1 A liftoff is defined as the force required to lift the anchor head off the shim stack and is representative of the force in that tendon. A liftoff is performed on each physical surveillance tendon to monitor the force exerted by the tendon onto the structure. PSC Procedure SQ 9.0 in Appendix H details the steps taken to perform a liftoff. The results were documented on Data Sheet SQ 9.0 and are summarized in Tables 44 thru 47. In Tables 44 thru 47, "N/A" indicates that a physical inspection was not performed.

7.1.1.1 It should be noted that performing a liftoff has only a localized effect on a tendon; therefore, it is acceptable to use the same jack for both ends of a tendon by executing the liftoff on separate occasions.

7.1.2 The tendons, which are included in the Augmented RVCH Scope, did not have their lift-off forces normalized. The effects of elastic shortening due to the sequence of the original tendon stressing and the secondary effects of tendons stressed in other directions is considered negligible due to the large amount of time between the two stressing periods and the small percentage of containment area that has been effected.

7.1.3 All of the tendon liftoffs were found to be above the minimum design and above 95% Predicted Force as required by IWL-3221.1. The liftoff requirement stated in IWL is:

Tendon forces are acceptable if:

- (a) The average of all measured tendon forces, including those measured in IWL-3221.1(b)(2), for each type of tendon is equal to or greater than the minimum required prestress specified at the anchorage for that type of tendon;
- (b) The measured force in each individual tendon is not less than 95% of the predicted force unless the following conditions are satisfied:
  - (1) the measured force in not more than one tendon is between 90% and 95% of the predicted force;
  - (2) The measured forces in two tendons located adjacent to the tendon in IWL-3221.1(b)(1) are not less than 95% of the predicted forces; and
  - (3) The measured forces in all the remaining sample tendons are not less than 95% of the predicted force.

7.1.3.1 The average tendon force in Unit 4 for each group and their respective minimum design are:

Vertical Tendon: Group Average = 632.43 Kips	Minimum Design = 522 Kips
Hoop Tendon: Group Average = 571.77 Kips	Minimum Design = 491.6 Kips
Dome Tendon: Group Average = 612.46 Kips	Minimum Design = 531 Kips

7.1.3.1.1 As depicted above, all group averages are above the required group minimum and are therefore acceptable.

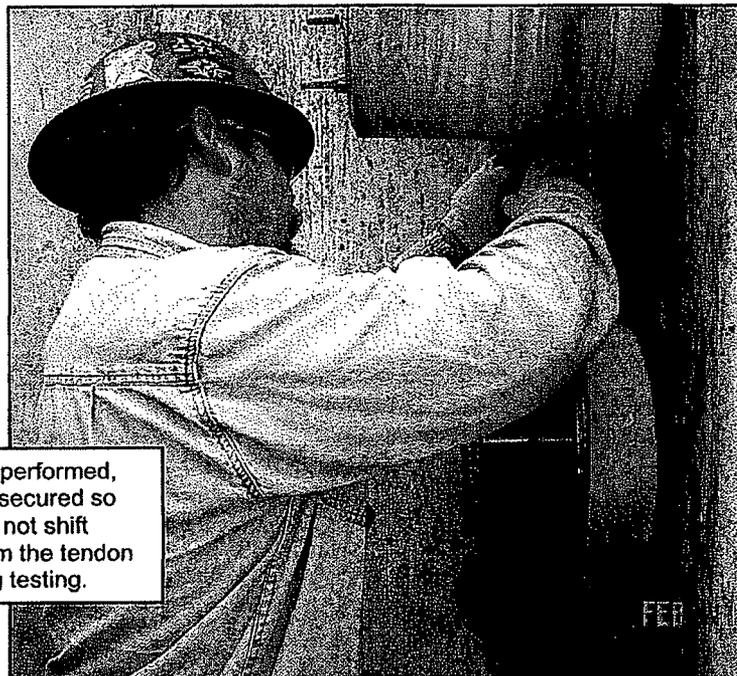
7.1.3.2 All surveillance tendons physically inspected were found to have forces greater than 95% of the predicted force.

7.1.4 Upon completion of the liftoff, a visual verification is performed to identify any changes in the condition of the tendon end. No additional or broken wires were noted during or after liftoffs.



**TABLE 44: UNIT 3 – SQ9.0 – MONITORING TENDON FORCE**

UNIT 3: SQ9.0 – MONITORING TENDON FORCE												
TENDON	END	SHIM STACK HEIGHT (in)	EFFECTIVE WIRES	JACK I.D.	LIFT-OFF (kips)	AVERAGE LIFT-OFF (kips)	NORMALIZATION FACTOR	NORMALIZED LIFT-OFF (kips)	P.F. (KIPS)	95% P.F. (KIPS)	90% P.F. (KIPS)	ACCEPTABLE?
12V06	DOME	7.25	90	9194	726.75	730.35	N/A	730.35	607.7	577.3	546.9	YES
	GALLERY	1.75	90	9305	733.95							
56V22	DOME	3.25	90	9194	739.63	739.63	N/A	739.63	607.7	577.3	546.9	YES
	GALLERY	N/A	N/A	N/A	N/A							
61V01	DOME	8.0	87	9194	690.5	690.5	N/A	690.5	587.42	558.05	528.68	YES
	GALLERY	N/A	N/A	N/A	N/A							
51H35	BT. 1	3.25	90	9192	589.53	597.32	N/A	597.32	564.2	536.0	507.8	YES
	BT. 5	3.625	90	9194	605.11							
62H55	BT. 2	2.25	90	9192	630.44	619.38	N/A	619.38	564.2	536.0	507.8	YES
	BT. 6	1.75	90	9194	608.33							

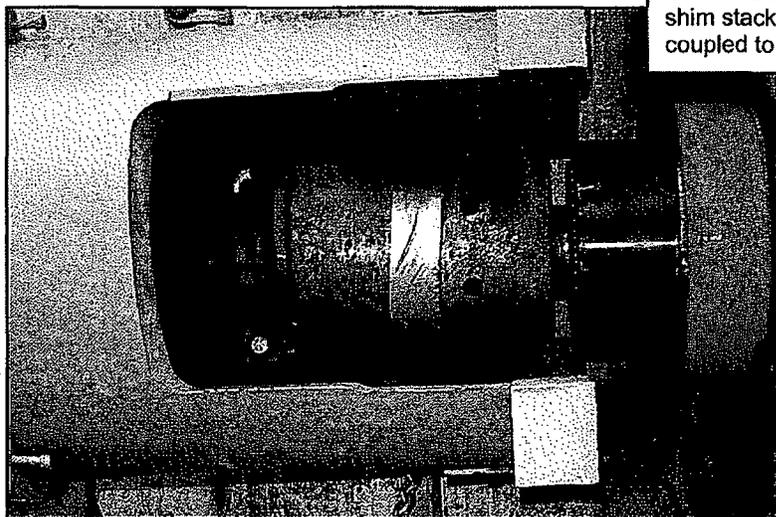


Before a Lifting is performed, the shim stack is secured so that the shims do not shift once the load from the tendon is released during testing.



**TABLE 45: UNIT 4 VERTICALS- SQ9.0 - MONITORING TENDON FORCE**

UNIT 4 VERTICALS: SQ9.0 - MONITORING TENDON FORCE												
TENDON	END	SHIM STACK HEIGHT (in)	EFFECTIVE WIRES	JACK ID	LIFT-OFF (kips)	AVERAGE LIFT-OFF (kips)	NORMALIZATION FACTOR	NORMALIZED LIFT-OFF (kips)	P.F. (KIPS)	95% P.F. (KIPS)	90% P.F. (KIPS)	ACCEPTABLE?
12V03	DOME	4.25	90	9191	718.23	718.23	N/A	718.23	607.4	577.1	546.7	YES
	GALLERY	N/A	89	N/A	N/A							
34V02	DOME	3.25	90	9193	633.97	626.17	.988	618.65	580.2	551.2	522.1	YES
	GALLERY	2.0	90	9305	618.38							
34V23	DOME	5.0	90	9193	667.01	667.01	.941	627.65	580.2	551.2	522.1	YES
	GALLERY	2.0	90	N/A	N/A							
45V10	DOME	2.0	90	9193	632.35	624.67	.956	597.18	580.1	551.1	522.1	YES
	GALLERY	2.0	90	9305	617.0							
45V23	DOME	2.0	90	9193	631.95	611.87	.97	593.51	580.1	551.1	522.1	YES
	GALLERY	2.0	90	9305	591.8							
56V20	DOME	4.0	90	9193	715.76	715.76	N/A	715.76	607.4	577.1	546.7	YES
	GALLERY	2.0	89	N/A	N/A							
56V30	DOME	4.0	90	9191	671.16	671.16	N/A	671.16	614.3	583.5	552.8	YES
	GALLERY	N/A	N/A	N/A	N/A							



Once the inspection is complete and the shim stack secure, the hydraulic ram is coupled to the tendon for Lift-off testing.



**TABLE 46: UNIT 4 HOOPS – SQ9.0 – MONITORING TENDON FORCE**

UNIT 4 HOOPS: SQ9.0 – MONITORING TENDON FORCE																																																																																																																																		
TENDON	END	SHIM STACK HEIGHT (ft)	EFFECTIVE WIRES	JACK ID.	LIFT OFF (kips)	AVERAGE LIFT-OFF (kips)	NORMALIZATION FACTOR	NORMALIZED LIFT-OFF (kips)	P.F. (KIPS)	95% P.F. (KIPS)	90% P.F. (KIPS)	ACCEPTABLE?																																																																																																																						
13H70	BT. 1	3.125	90	9191	586.66	587.75	0.963	566.0	527.9	501.5	475.1	YES																																																																																																																						
	BT. 3	2.75	90	9193	588.85								35H34	BT. 3	2.25	90	9193	559.83	558.82	0.986	545.08	527.9	501.5	475.1	YES	BT. 5	2.75	90	9193	557.82	42H31	BT. 2	2.5	89	9191	558.89	552.71	1.02	563.76	522.0	495.9	469.8	YES	BT. 4	2.5	90	9193	546.46	42H32	BT. 2	1.75	90	9191	546.01	540.43	1.02	551.24	527.9	501.5	475.1	YES	BT. 4	3.0	90	9193	534.86	51H40	BT. 1	3.125	90	9191	611.60	606.06	1.0	606.06	573.0	544.4	515.7	YES	BT. 5	2.875	90	9193	600.53	62H33	BT. 2	2.25	90	9191	593.09	598.42	N/A	598.42	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	603.76	62H34	BT. 2	2.75	90	9191	632.92	623.37	N/A	623.37	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	613.83	62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9
35H34	BT. 3	2.25	90	9193	559.83	558.82	0.986	545.08	527.9	501.5	475.1	YES																																																																																																																						
	BT. 5	2.75	90	9193	557.82								42H31	BT. 2	2.5	89	9191	558.89	552.71	1.02	563.76	522.0	495.9	469.8	YES	BT. 4	2.5	90	9193	546.46	42H32	BT. 2	1.75	90	9191	546.01	540.43	1.02	551.24	527.9	501.5	475.1	YES	BT. 4	3.0	90	9193	534.86	51H40	BT. 1	3.125	90	9191	611.60	606.06	1.0	606.06	573.0	544.4	515.7	YES	BT. 5	2.875	90	9193	600.53	62H33	BT. 2	2.25	90	9191	593.09	598.42	N/A	598.42	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	603.76	62H34	BT. 2	2.75	90	9191	632.92	623.37	N/A	623.37	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	613.83	62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9	501.5	475.1	YES	BT. 6	2.25	90	9193	619.47										
42H31	BT. 2	2.5	89	9191	558.89	552.71	1.02	563.76	522.0	495.9	469.8	YES																																																																																																																						
	BT. 4	2.5	90	9193	546.46								42H32	BT. 2	1.75	90	9191	546.01	540.43	1.02	551.24	527.9	501.5	475.1	YES	BT. 4	3.0	90	9193	534.86	51H40	BT. 1	3.125	90	9191	611.60	606.06	1.0	606.06	573.0	544.4	515.7	YES	BT. 5	2.875	90	9193	600.53	62H33	BT. 2	2.25	90	9191	593.09	598.42	N/A	598.42	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	603.76	62H34	BT. 2	2.75	90	9191	632.92	623.37	N/A	623.37	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	613.83	62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9	501.5	475.1	YES	BT. 6	2.25	90	9193	619.47																												
42H32	BT. 2	1.75	90	9191	546.01	540.43	1.02	551.24	527.9	501.5	475.1	YES																																																																																																																						
	BT. 4	3.0	90	9193	534.86								51H40	BT. 1	3.125	90	9191	611.60	606.06	1.0	606.06	573.0	544.4	515.7	YES	BT. 5	2.875	90	9193	600.53	62H33	BT. 2	2.25	90	9191	593.09	598.42	N/A	598.42	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	603.76	62H34	BT. 2	2.75	90	9191	632.92	623.37	N/A	623.37	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	613.83	62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9	501.5	475.1	YES	BT. 6	2.25	90	9193	619.47																																														
51H40	BT. 1	3.125	90	9191	611.60	606.06	1.0	606.06	573.0	544.4	515.7	YES																																																																																																																						
	BT. 5	2.875	90	9193	600.53								62H33	BT. 2	2.25	90	9191	593.09	598.42	N/A	598.42	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	603.76	62H34	BT. 2	2.75	90	9191	632.92	623.37	N/A	623.37	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	613.83	62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9	501.5	475.1	YES	BT. 6	2.25	90	9193	619.47																																																																
62H33	BT. 2	2.25	90	9191	593.09	598.42	N/A	598.42	573.0	544.4	515.7	YES																																																																																																																						
	BT. 6	2.5	90	9193	603.76								62H34	BT. 2	2.75	90	9191	632.92	623.37	N/A	623.37	573.0	544.4	515.7	YES	BT. 6	2.5	90	9193	613.83	62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9	501.5	475.1	YES	BT. 6	2.25	90	9193	619.47																																																																																		
62H34	BT. 2	2.75	90	9191	632.92	623.37	N/A	623.37	573.0	544.4	515.7	YES																																																																																																																						
	BT. 6	2.5	90	9193	613.83								62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9	501.5	475.1	YES	BT. 6	2.25	90	9193	619.47																																																																																																				
62H82	BT. 2	2.5	90	9191	618.85	619.16	0.967	598.73	527.9	501.5	475.1	YES																																																																																																																						
	BT. 6	2.25	90	9193	619.47																																																																																																																													



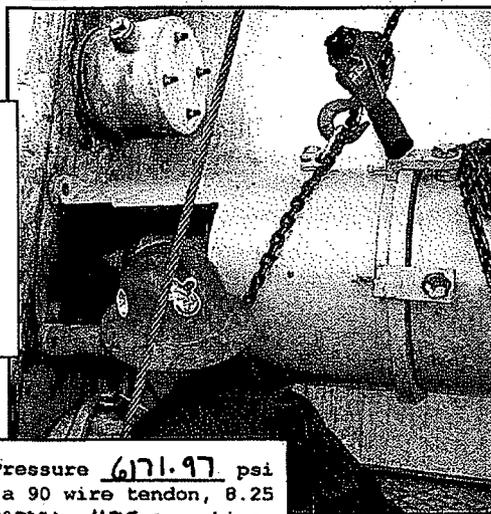
The Liftoff testing is performed using feeler gauges, which indicate the pressure at which the load on the tendon is transferred from the shim stack to the hydraulic ram.



**TABLE 47: UNIT 4 DOMES - SQ9.0 - MONITORING TENDON FORCE**

UNIT 4 DOMES SQ9.0 - MONITORING TENDON FORCE												
TENDON	END	SHIM STACK HEIGHT (in)	EFFECTIVE WIRES	JACK ID	LIFTOFF (kips)	AVERAGE LIFTOFF (kips)	NORMALIZATION FACTOR	NORMALIZED LIFTOFF (kips)	P.F. (KIPS)	95% P.F. (KIPS)	90% P.F. (KIPS)	ACCEPTABLE?
2D08	NEAR BT.2	2.25	90	9191	646.61	633.64	1.027	650.74	538.9	512.0	485.0	YES
	NEAR BT.6	2.75	90	9193	620.68							
3D20	NEAR BT.3	3.0	90	9193	623.09	619.06	.989	612.25	538.9	512.0	485.0	YES
	NEAR BT.6	2.5	90	9193	615.04							
3D25	NEAR BT.3	2.0	90	9193	592.07	593.88	0.97	576.06	538.9	512.0	485.0	YES
	NEAR BT.6	2.25	90	9193	595.69							
3D31	NEAR BT.3	2.125	90	9193	598.92	603.25	0.97	585.15	538.9	512.0	485.0	YES
	NEAR BT.6	2.25	90	9191	607.58							

On each end, three sets of pressures are averaged to find the force on that tendon end. Both ends are then averaged and normalized to determine if the tendon is at an acceptable force level according to the predicted forces.



(9.7.2) Tendon End Liftoff Maximum Force 743 kips Pressure 6771.97 psi  
 (Tendon End Maximum Force shall not exceed 743 kips for a 90 wire tendon, 8.25  
 (PLL) 558.9 kips (95%PLL) 512.0 kips (90%PLL) 485.0 kips  
4483.38 psi 4260.83 psi 4037.45 psi

(9.8.5.3) ACTUAL LIFTOFF: (psi)

Stack #1 - 1	<u>5170</u>	Stack #2 - 1	<u>5180</u>	(9.8.5.4) Circled	Actual 1	<u>5180</u>
2	<u>5150</u>	2	<u>5160</u>	2	<u>5160</u>	
3	<u>5120</u>	3	<u>5140</u>	3	<u>5140</u>	
			Actual Average	<u>5160</u>		

FORCE (opposite end) 646.61 kips FORCE (this end) 620.68 kips

THIS TENDON -  
 ACTUAL AVERAGE LIFTOFF FORCE 633.64 kips X Norm. Factor 1.027 =  
 TENDON NORMALIZED LIFTOFF FORCE 650.74 kips

(9.8.6) Acceptable (95%PLL or greater)  YES or NO

This is the Liftoff data for tendon U4-2D08/BT.6



**8.0 WIRE INSPECTION AND TESTING**

- 8.1 A tendon of each type was completely detensioned. A single wire was removed from each detensioned tendon for inspection and testing. Each removed wire was examined over its entire length for corrosion and mechanical damage. Each sample was tested for yield strength, ultimate tensile strength and elongation. PSC Procedures SQ 10.2 and SQ 10.3 outline the details involved with the wire removal and testing. All data was recorded on Data Sheets SQ 10.2 and SQ 10.3 and the results summarized in Tables 48 and 49.
- 8.2 On Unit 3 for the RVCH Augmented Scope, one tendon from the vertical group and one tendon from the horizontal group was scheduled to be detensioned and have a test wire removed for visual inspection and tensile testing. Only RVCH tendons were physically inspected on Unit 3. On Unit 4 for the Original Scope, one tendon from the vertical group, one tendon from the horizontal group and one tendon from the dome group was scheduled to be detensioned and have a test wire removed for visual inspection and tensile testing. On Unit 4 for the RVCH Augmented Scope, one tendon from the vertical group and one tendon from the horizontal group was scheduled to be detensioned and have a test wire removed for visual inspection and tensile testing.
- 8.3 All wire diameters were within the acceptance criteria of 0.250 + 0.002". The corrosion level for all of the test wires were either:

A-Excellent Condition: Bright, uniformly colored wire; no foreign matter, visible rust or pitting. No cleaning for inspection is required. Two heavy passes with 100 grit sandpaper to bright metal

Or

B-Good Condition: Partial loss of color; little foreign matter and a small quantity of light rust may be present; no pitting. The oxide coat will be more discernable when viewed parallel to the length of the wire. Rag, wipe cleaning may be required for inspection. Five heavy passes with 100 grit sandpaper to bright metal.

The Ultimate Strength of the wires tested exceeded the minimum strength criteria of 240,000 psi on all samples. The percent elongation exceeded the required minimum of 4.0% on all samples tested. The recorded elongation on the samples varied from 4.2% to 5.6%.

**TABLE 48: UNIT 3 – SQ10.2 & SQ10.3 – VISUAL INSPECTION AND TENSILE TESTING OF WIRE**

UNIT 3: DATA SHEETS SQ10.2 & SQ10.3 VISUAL INSPECTION AND TENSILE TESTING OF WIRE								
TENDON	SAMPLE NUMBER	CORROSION LEVEL	SAMPLE LOCATION (ft)	DIAMETER (in)	YIELD STRENGTH (ksf)	ULTIMATE STRENGTH (ksi)	ELONGATION (%)	ACCEPT?
12V06	1	A	10 - 19	0.25	230.983	265.251	+4.6	YES
	2	B	80 - 89	0.25	230.336	263.958	+4.3	YES
	3	B	150 - 159	0.25	228.720	263.634	+4.2	YES
62H55	1	A	10 - 19	0.25	241.974	284.648	+5.1	YES
	2	A	70 - 79	0.25	246.500	285.294	+5.6	YES
	3	A	120 - 129	0.25	241.974	285.294	+5.3	YES



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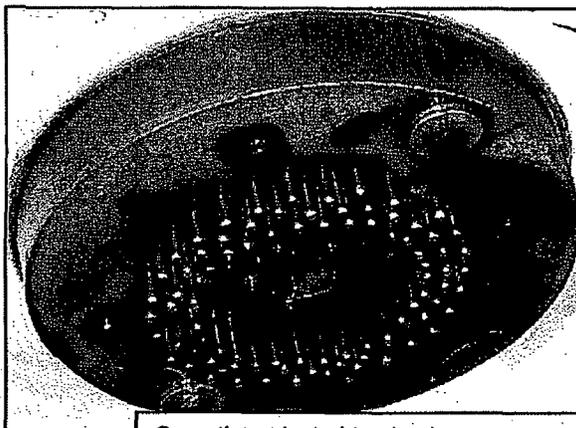
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**TABLE 49: UNIT 4 – SQ10.2 & SQ10.3 – VISUAL INSPECTION AND TENSILE TESTING OF WIRE**

UNIT 4 - DATA SHEETS SQ10.2 & SQ10.3 VISUAL INSPECTION AND TENSILE TESTING OF WIRE								
TENDON	SAMPLE NUMBER	CORROSION LEVEL	SAMPLE LOCATION (ft)	DIA METER (in)	YIELD STRENGTH (ksi)	ULTIMATE STRENGTH (ksi)	ELONGATION (%)	ACCEPT?
12V03	1	A	10 - 19	0.249	229.947	258.955	+5.0	YES
	2	A	80 - 89	0.250	223.870	257.492	+4.8	YES
	3	A	150 - 159	0.250	221.931	259.432	+4.6	YES
34V23	1	B	10 - 19	0.250	220.638	261.048	+4.4	YES
	2	B	80 - 89	0.250	221.931	262.664	+5.1	YES
	3	B	150 - 159	0.250	222.577	260.078	+5.0	YES
13H70	1	A	10 - 19	0.250	227.750	265.897	+4.3	YES
	2	A	60 - 69	0.250	226.457	264.281	+4.7	YES
	3	A	120 - 129	0.250	229.043	266.544	+4.8	YES
62H34	1	A	10 - 19	0.250	238.095	285.294	+5.6	YES
	2	A	70 - 79	0.250	241.328	284.324	+5.6	YES
	3	A	120 - 129	0.249	239.399	287.638	+5.6	YES
3D31	1	A	10 - 19	0.249	226.361	262.215	+5.1	YES
	2	A	60 - 69	0.249	229.621	264.822	+5.1	YES
	3	A	120 - 129	0.249	227.665	263.518	+5.1	YES



Once the selected tendon is detensioned, a wire is located at both ends and removed for inspection and tensile testing.



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## 9.0 TENDON RETENSIONING AND RESEALING

### 9.1 TENDON RETENSIONING

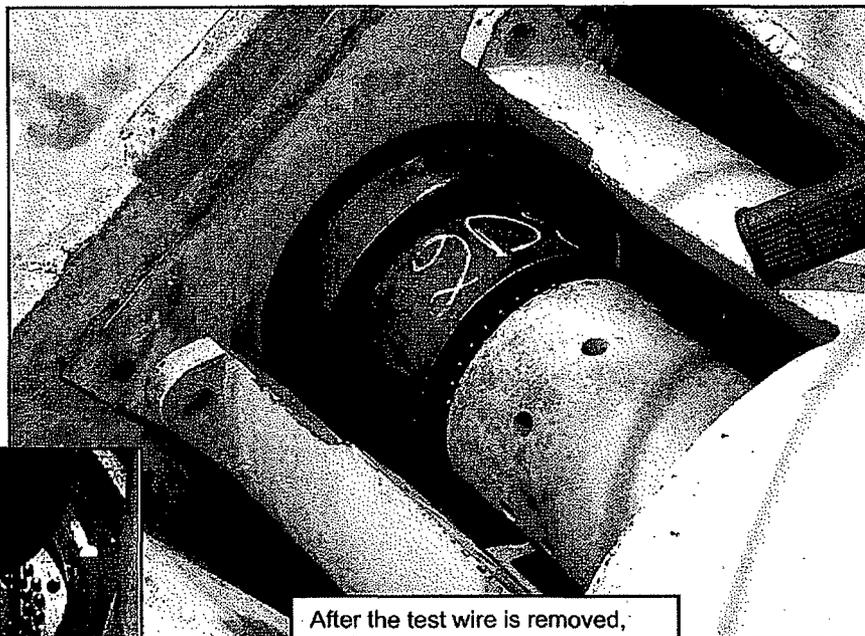
9.1.1 The tendons that were detensioned for wire removal were retensioned per PSC Procedure SQ 11.0 in order to restore them to acceptable working force. The results of the retensioning process were recorded on PSC Data Sheet SQ 11.0 and the results summarized in Table 50. On Table 50, "N/A" indicates restressing occurred from the opposite end.

9.1.2 All new elongations were compared to original elongations and found to be acceptable (within  $\pm 10\%$ ). A force versus elongation graph of each retensioning is plotted to verify that the elongation is linear and that no distortions of the tendon elongation are evident through bind or friction points. All plots trended similar to original installation and were acceptable.

9.1.3 All tendons were retensioned to acceptable force limits greater than as found, except U3-12V06. Tendon U3-12V06 had an As-Found Lift-Off values that exceeded the required Predicted force by 19.5%. PSC Procedure SQ11.0 states:

The force being restored shall be held to a tolerance of plus 6% and minus 0% of the liftoff observed during the Monitoring of Tendon Force or to a value equal to but not in excess of 6% greater than the Predicted Lower Limit (PLL) of the Predicted forces shown in the Table of Procedure SQ9.1, whichever is greater, but **NOT TO EXCEED 70%** of tendon GUTS for the amount of effective wires in the tendon. If this cannot be accomplished, the Owner shall be notified.

The contractor was directed by the FPL Designated Engineer to restore the tendon as close as possible to 70% of G.U.T.S. (Guaranteed Ultimate Tensile Strength) without exceeding 70% of G.U.T.S. The final Lock-Off value was 69.28% of G.U.T.S. This condition is documented and deemed acceptable in CR2007-6493. All tendons were locked off below the maximum of 70% G.U.T.S.



After the test wire is removed, the hydraulic ram is coupled back onto the tendon. Then the tendon is retensioned to an appropriate force.



**TABLE 50: UNIT 3 & 4 – SQ11.0 – TENDON RETENSIONING**

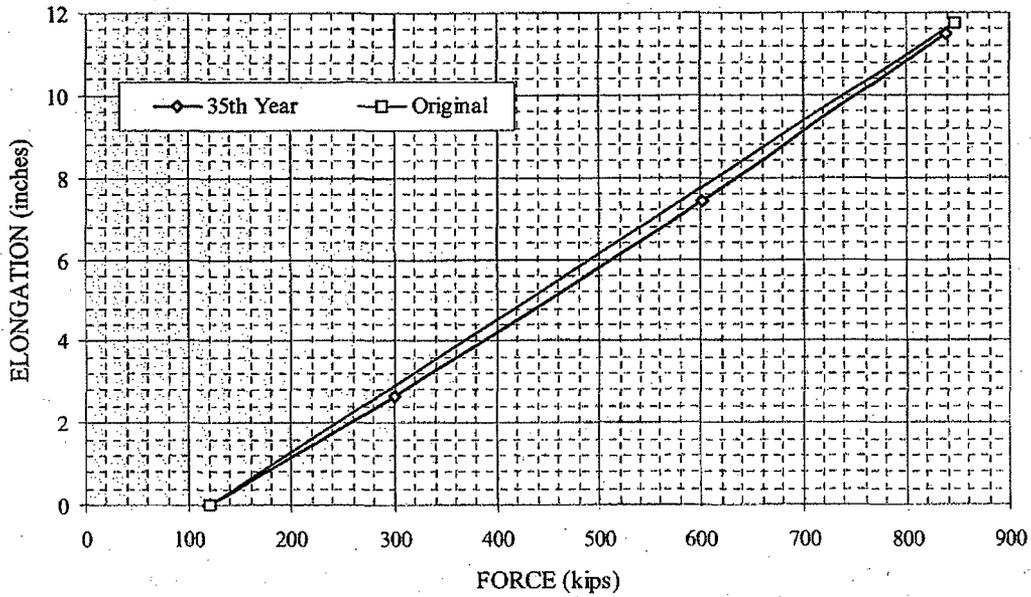
UNIT 3 & 4: SQ11.0 – TENDON RETENSIONING														
UNIT	TENDON	END	ORIGINAL ELONGATION TOTAL (in)	OBSERVED ELONGATION			AS-FOUND LIFTOFF			RETENSIONING			% VARIATION	ACCEPTABLE?
				EACH	TOTAL	% VARIATION	JACK	LOCK-OFF (Kips)	AVERAGE (Kips)	JACK	LOCK-OFF (Kips)	AVERAGE (Kips)		
3	12V06	D	11.75	8.0	11.5	-2.12	9194	726.75	730.35	9194	725.13	726.43	-0.54	YES <sup>(1)</sup>
		G		3.5			9305	733.95		9305	727.74			
3	62H55	BT. 2	9.0	4.65	9.05	0.55	9192	630.44	619.38	9192	664.5	653.53	+5.51	YES
		BT. 6		4.4			9194	608.33		9194	642.57			
4	12V03	D	10.5	11.5	11.5	9.50	9191	718.23	718.23	9191	721.46	721.46	+0.45	YES
		G		N/A			N/A	N/A		N/A				
4	34V23	D	10.0	10.8	10.8	8.00	9193	667.01	667.01	9193	684.33	684.33	+2.60	YES
		G		N/A			N/A	N/A		N/A				
4	13H70	BT. 1	8.5	N/A <sup>(2)</sup>	9.2	8.24	9191	586.66	587.75	9191	620.86	612.91	+4.28	YES
		BT. 3		9.2			9193	588.85		9193	604.96			
4	62H34	BT. 2	9.0	4.4	9.0	0.0	9191	632.92	623.37	9191	650.23	644.31	+3.38	YES
		BT. 6		4.6			9193	613.83		9193	638.40			
4	3D31	BT. 3	9.0	4.9	9.0	0.0	9193	598.92	603.25	9193	616.65	614.12	+1.80	YES
		BT. 6		4.1			9191	607.58		9191	611.60			

(1) ACCEPTABLE PER CR2007-6493 EVALUATION

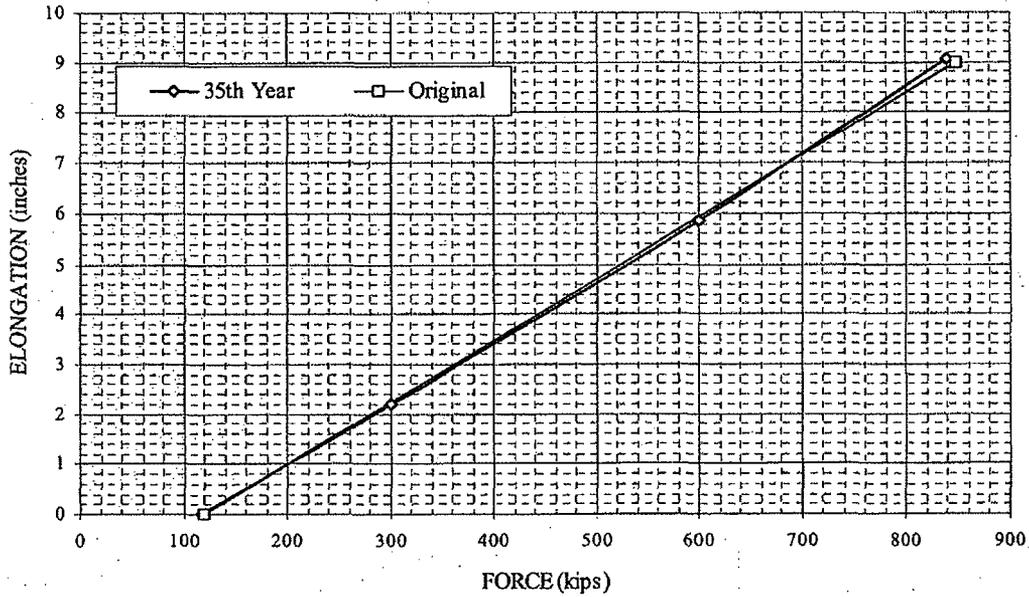
(2) TENDON WAS RETENSIONED FROM BT3 SIDE. OSF COULD NOT BE ACHIEVED DUE TO THREAD CAPACITY OF THE ANCHORHEAD ON BT1.



### ELONGATION FOR U3-12V06 RVCH SCOPE TENDON

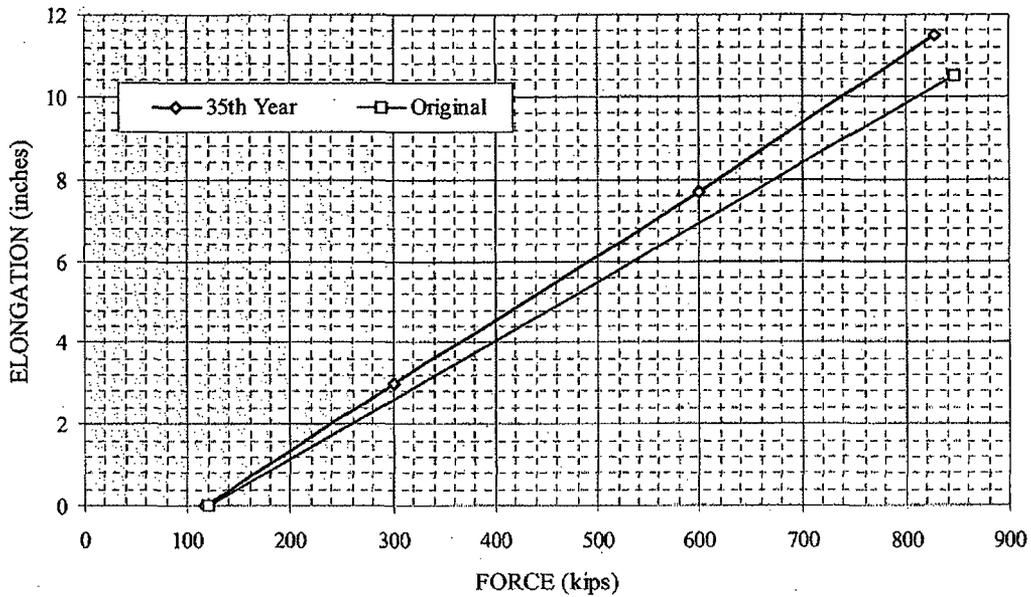


### ELONGATION FOR U3-62H55 RVCH SCOPE TENDON

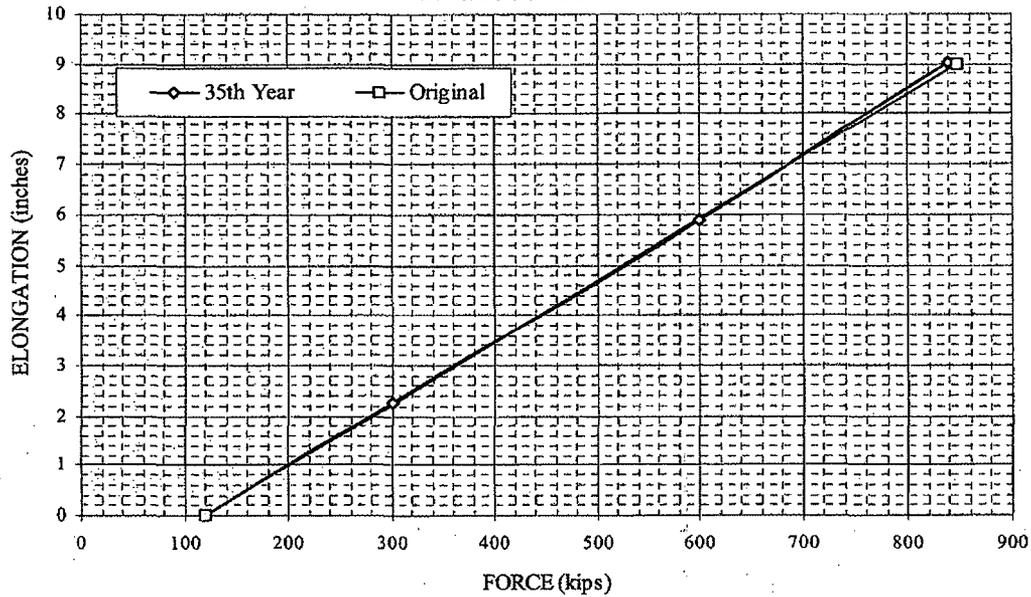




**ELONGATION FOR U4-12V03  
RVCH SCOPE TENDON**

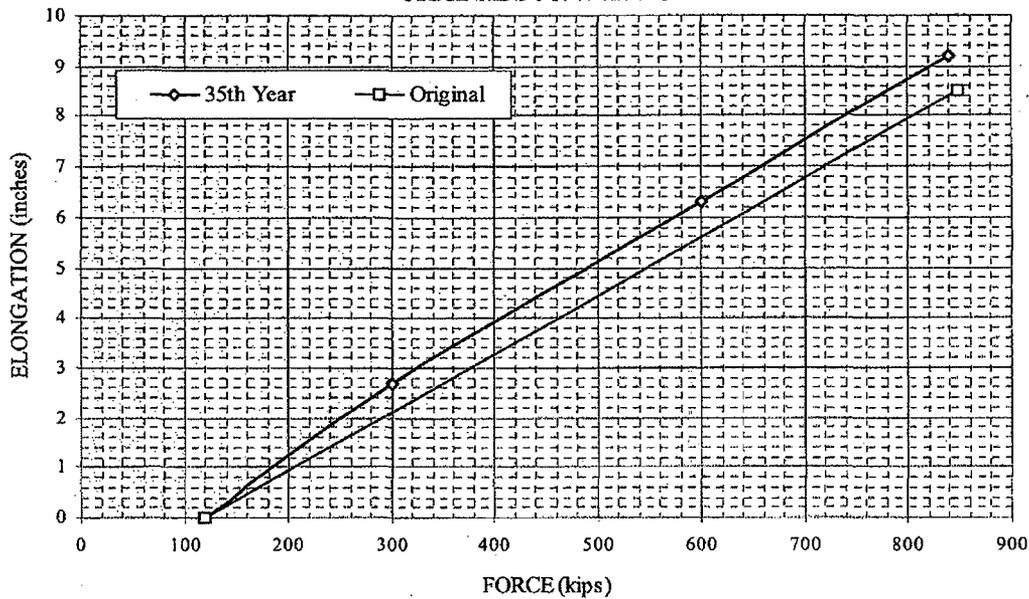


**ELONGATION FOR U3-62H34  
RVCH SCOPE TENDON**

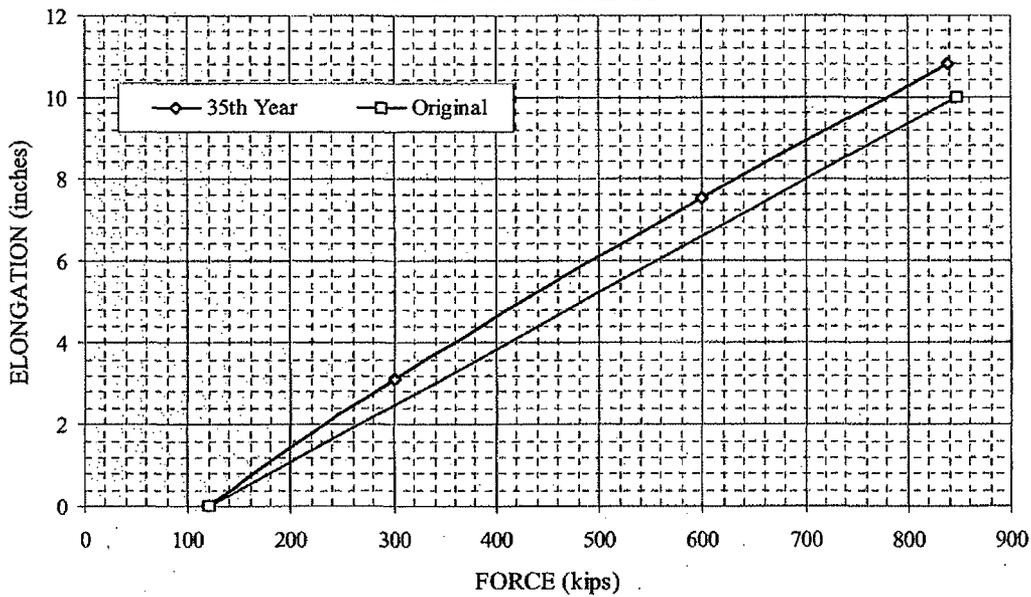




### ELONGATION FOR U4-13H70 ORIGINAL SCOPE TENDON

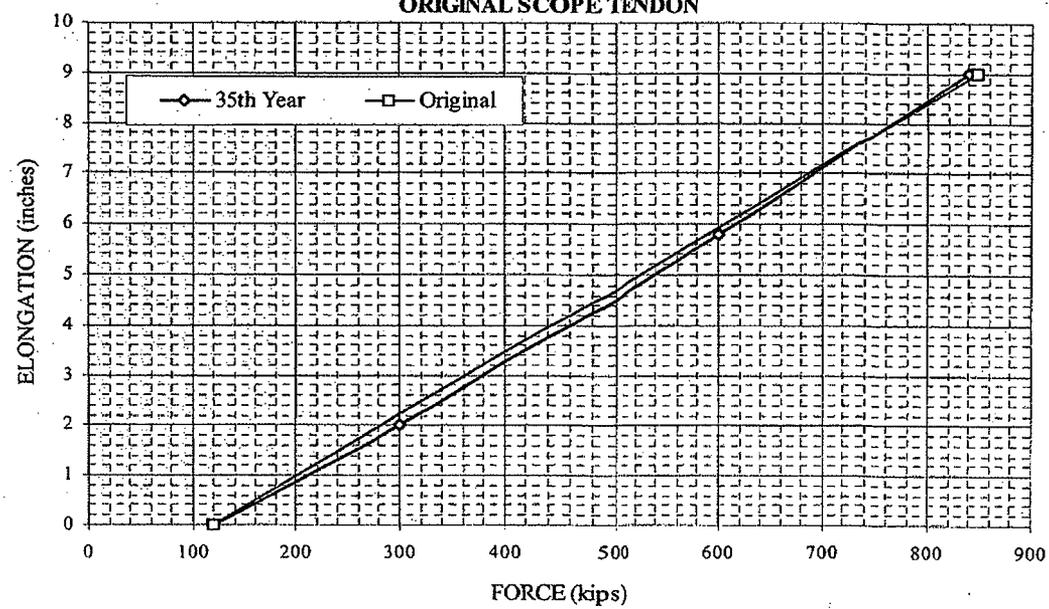


### ELONGATION FOR U4-34V23 ORIGINAL SCOPE TENDON





### ELONGATION FOR U4-3D31 ORIGINAL SCOPE TENDON





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**9.2 TENDON CAP RESEALING AND GREASING**

9.2.1 After completion of all inspections, the anchorage components were hand coated with cold grease to ensure complete coverage. The caps were reinstalled with new gaskets, and the necessary amount of sheathing filler (grease) was added. Results of the grease replacement were recorded on Data Sheet SQ 12.1 and are summarized in Tables 51 thru 57.

9.2.1.1 All of the Original Scope and RVCH Augmented Scope surveillance tendons were refilled within the acceptable limits as stated in the procedure SQ12.1.

9.2.1.2 Tendon U3-61V25 of the CR Scope of work exceeded the acceptable limits for grease replacement. CR2007-8095 was issued to evaluate this condition. During the grease replacement, 33.5 gallons of grease was installed on the subject tendon. CR2006-9308 and the current IWL Inspection have documented the amount of grease removed/lost as 20 gallons. The absolute difference of the amount of grease removed and amount of grease replaced equals 15.16%. As stated above, the absolute difference between the amount of grease removed/lost and the amount of grease replaced in the subject tendon exceeds 10% of the net duct volume. This condition is documented and deemed acceptable per CR2007-8095.

**TABLE 51: UNIT 3 VERTICALS – SQ12.1 – GREASE LOSS VS. GREASE REPLACEMENT**

UNIT 3 VERTICALS: SQ 12.1 – GREASE LOSS vs. GREASE REPLACEMENT									
TENDON	END	GREASE REMOVED (GALLONS)		GREASE REPLACED (GALLONS)		DIFF (GAL)	DUCT VOLUME (GAL)	% DIFF	ACCEPT
		END	TOTAL	END	TOTAL				
12V06	DOME	1.0		8.4					
	GALLERY	19.5	20.5	12.39	20.79	0.29	88.32	0.32	YES
12V22	DOME	1.5		4.86					
	GALLERY	2.5	4.0	0	4.86	0.86	89.15	0.96	YES
45V02	DOME	1.0		0					
	GALLERY	41.5	42.5	43.25	43.25	0.75	88.67	0.84	YES
45V11	DOME	1.0		0					
	GALLERY	50.5	51.5	56.64	56.64	5.14	88.56	4.67	YES
45V28	DOME	1.5		5.75					
	GALLERY	2.5	4.0	0	5.75	1.75	88.81	1.97	YES
56V22	DOME	1.5		3.98					
	GALLERY	1.0	2.5	0	3.98	1.48	89.56	1.65	YES
61V01	DOME	1.0		6.19					
	GALLERY	3.0	4.0	0	6.19	2.19	88.74	2.46	YES



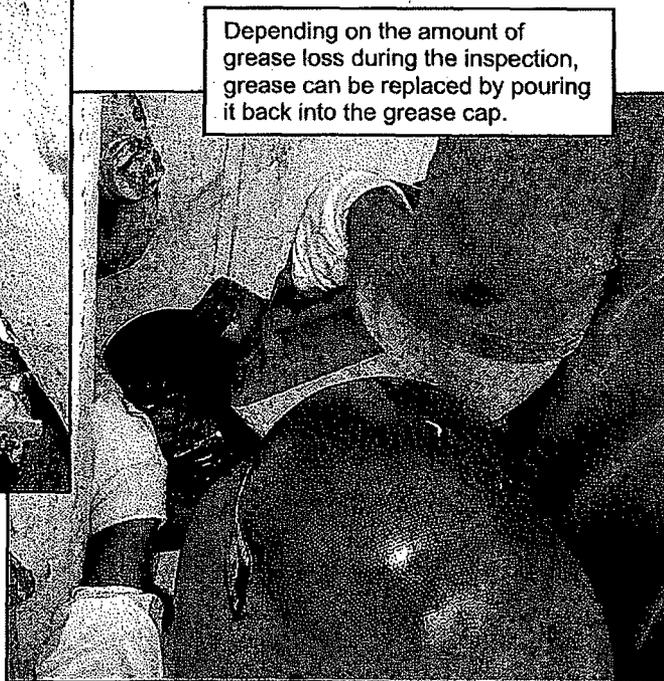
**TABLE 52: UNIT 3 HOOPS - SQ12.1 - GREASE LOSS VS. GREASE REPLACEMENT**

UNIT 3 HOOPS SQ 12.1 - GREASE LOSS vs. GREASE REPLACEMENT									
TENDON	END	GREASE REMOVED (GALLONS)		GREASE REPLACED (GALLONS)		DIFF (GAL)	DUCT VOLUME (GAL)	% DIFF	ACCEPT
		END	TOTAL	END	TOTAL				
13H10	BT. 1	3.0	3.0	3.09	3.09	0.09	73.59	0.12	YES
	BT. 3	N/A		N/A					
13H31	BT. 1	2.0	3.5	2.21	4.20	0.70	73.11	0.95	YES
	BT. 3	1.5		1.99					
35H39	BT. 3	1.5	3.0	1.77	3.54	0.54	73.28	0.73	YES
	BT. 5	1.5		1.77					
51H03	BT. 1	3.5	5.0	3.54	5.53	0.53	73.32	0.72	YES
	BT. 5	1.5		1.99					
51H18	BT. 1	2.0	3.5	2.21	4.42	0.92	73.66	1.24	YES
	BT. 5	1.5		2.21					
51H33	BT. 1	1	2.5	2.21	3.98	1.48	73.56	2.01	YES
	BT. 5	1.5		1.77					
51H35	BT. 1	2	3.0	3.98	5.30	2.30	73.42	3.13	YES
	BT. 5	1		1.32					
62H55	BT. 2	1.5	3.0	1.77	3.98	0.98	73.56	1.30	YES
	BT. 6	1.5		2.21					
64H75	BT. 4	1.5	4.5	2.21	5.30	0.80	73.25	1.09	YES
	BT. 6	3.0		3.09					



**TABLE 53: UNIT 3 DOMES – SQ12.1 – GREASE LOSS VS. GREASE REPLACEMENT**

UNIT 3 DOMES SQ 12.1 – GREASE LOSS vs. GREASE REPLACEMENT									
TENDON	END	GREASE REMOVED (GALLONS)		GREASE REPLACED (GALLONS)		DIFF. (GAL.)	DUCT VOLUME (GAL.)	% DIFF	ACCEPT
		END	TOTAL	END	TOTAL				
2D16	NEAR BT.1	1.5	3.0	1.77	3.54	0.54	65.24	0.82	YES
	NEAR BT.4	1.5		1.77					
2D17	NEAR BT.1	2.0	5.0	2.21	5.30	0.30	65.67	0.45	YES
	NEAR BT.4	3.0		3.09					
2D40	NEAR BT.1	3.0	3.0	3.09	3.09	0.09	64.96	0.13	YES
	NEAR BT.4	0.0		0.0					
3D08	NEAR BT.4	2.0	3.50	2.21	3.98	0.48	61.11	0.78	YES
	NEAR BT.5	1.5		1.77					
3D51	NEAR BT.1	2.0	4.0	2.21	4.42	0.42	60.01	0.69	YES
	NEAR BT.2	2.0		2.21					
3D52	NEAR BT.1	1.5	3.0	1.77	3.54	0.54	59.30	0.91	YES
	NEAR BT.2	1.5		1.77					



Depending on the amount of grease loss during the inspection, grease can be replaced by pouring it back into the grease cap.



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**TABLE 54: UNIT 3 ADDITIONAL WORK – SQ12.1 – GREASE LOSS VS. GREASE REPLACEMENT**

UNIT 3 ADDITIONAL WORK - SQ 12.1 - GREASE LOSS vs. GREASE REPLACEMENT									
TENDON	END	GREASE REMOVED (GALLONS)		GREASE REPLACED (GALLONS)		DIFF. (GAL.)	DUCT VOLUME (GAL.)	% DIFF.	ACCEPT
		END	TOTAL	END	TOTAL				
12V03	TOP	2.0	2.0	1.77	1.77	-0.23	89.49	-0.25	YES
12V05	TOP	1.0	1.0	0.88	0.88	-0.12	88.94	-0.13	YES
12V14	TOP	1.0	1.0	0.88	0.88	-0.12	88.63	-0.13	YES
34V13	GALLERY	51.0	51.0	49.56	49.56	-1.44	89.63	-2.72	YES
56V19	TOP	2.0	2.0	2.65	2.65	0.65	89.08	0.72	YES
56V20	TOP	1.0	1.0	1.77	1.77	0.77	89.08	0.86	YES
56V25	GALLERY	37.0	37.0	38.94	38.94	1.94	88.94	1.05	YES
56V29	TOP	1.0	1.0	2.21	2.21	1.21	89.08	1.36	YES
56V30	TOP	1.0	1.0	1.77	1.77	0.77	89.01	0.86	YES
61V03	TOP	1.0	1.0	1.77	1.77	0.77	88.74	0.86	YES
61V07	TOP	1.0	1.0	1.32	1.32	0.32	89.01	0.35	YES
61V09	TOP	1.0	1.0	1.77	1.77	0.77	88.94	0.86	YES
61V22	TOP	0	12.0	3.98	4.86	-7.14	88.91	-8.03	YES
	GALLERY	12.0		0.88					
61V25	GALLERY	20.0	20.0	33.51	33.51	13.51	89.12	15.16	YES <sup>(1)</sup>
61V30	TOP	1.0	1.0	1.32	1.32	0.32	88.63	0.36	YES
35H50	BT. 3	1.13	1.13	1.32	1.32	.19	73.32	0.26	YES
35H51	BT. 3 <sup>(2)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35H52	BT. 3 <sup>(2)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51H02	BT. 1	1.13	1.13	3.54	3.54	2.41	73.38	3.29	YES
51H30	BT. 1	1.13	1.13	1.32	1.32	.19	73.52	0.26	YES
51H31	BT. 1 <sup>(2)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51H63	BT. 1 <sup>(2)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
64H62	BT. 6	2.0	2.0	2.21	2.21	0.21	73.45	0.28	YES
1D10	BT. 3	0.75	0.75	0.88	0.88	0.13	62.34	0.20	YES
2D08	BT. 3	0.75	0.75	0.88	0.88	0.13	68.11	0.19	YES
2D09	BT. 3	1.0	1.0	1.062	1.062	.062	61.81	.10	YES
2D21	BT. 4-3 <sup>(2)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2D22	BT. 3	1.0	1.0	1.062	1.062	.062	68.11	0.09	YES
2D49	BT. 6	0.75	0.75	0.88	0.88	0.13	60.65	.21	YES

(1) ACCEPTABLE PER CR2007-8095 EVALUATION

(2) ALL-THREAD REPLACEMENT ONLY. THE TENDON CAP WAS NOT REMOVED.



**TABLE 55: UNIT 4 VERTICALS – SQ12.1 – GREASE LOSS VS. GREASE REPLACEMENT**

UNIT 4 VERTICALS: SQ 12.1 – GREASE LOSS vs. GREASE REPLACEMENT									
TENDON	END	GREASE REMOVED (GALLONS)		GREASE REPLACED (GALLONS)		DIFF. (GAL.)	DUCT VOLUME (GAL.)	% DIFF.	ACCEPT
		END	TOTAL	END	TOTAL				
12V03	DOME	2.0		0					
	GALLERY	27.0	29.0	35.25	35.25	6.25	88.81	+7.03	YES
34V02	DOME	2.0		0					
	GALLERY	52.0	54.0	54.75	54.75	0.75	88.81	+0.84	YES
34V23	DOME	1.5		0					
	GALLERY	38.0	39.5	44.4	44.4	4.9	89.05	+5.5	YES
45V10	DOME	2		0					
	GALLERY	40	42	42.8	42.8	0.8	89.32	+0.89	YES
45V23	DOME	1.5		0					
	GALLERY	56.0	57.5	64.87	64.87	7.37	89.43	+8.24	YES
56V20	DOME	2.0		10.62					
	GALLERY	8.0	10.0	0	10.62	0.62	89.22	+0.69	YES
56V30	DOME	2.0		0					
	GALLERY	31.0	33.0	40.48	40.48	7.48	89.77	+8.33	YES
12V19 <sup>(1)</sup>	DOME	1.5		0					
	GALLERY	48.0	49.5	55.64	55.64	6.14	89.60	+7.96	YES

(1) ADDITIONAL WORK SCOPE



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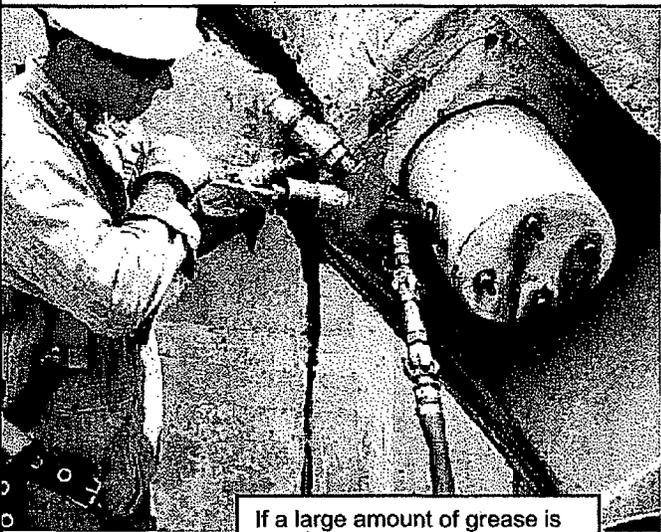
**TABLE 56: UNIT 4 HOOPS – SQ12.1 – GREASE LOSS VS. GREASE REPLACEMENT**

UNIT 4 HOOPS: SQ 12.1 – GREASE LOSS vs. GREASE REPLACEMENT									
TENDON	END	GREASE REMOVED (GALLONS)		GREASE REPLACED (GALLONS)		DIFF. (GAL.)	DUCT VOLUME (GAL.)	% DIFF	ACCEPT
		END	TOTAL	END	TOTAL				
13H70	BT. 1	2.0	5.0	2.21	5.75	+0.75	73.01	+1.02	YES
	BT. 3	3.0		3.54					
35H25	BT. 3	3.0	3.0	3.98	3.98	+0.98	73.32	+1.33	YES
	BT. 5	0		0					
35H34	BT. 3	2	3.5	2.21	3.98	+0.48	73.32	+0.65	YES
	BT. 5	1.5		1.77					
42H16	BT. 2	1.5	4.0	2.21	5.75	+1.75	73.45	2.38	YES
	BT. 4	2.5		3.54					
42H19	BT. 2	1.5	3.5	1.77	3.98	+0.48	73.14	+0.65	YES
	BT. 4	2.0		2.21					
42H31	BT. 2	1.5	3.5	1.77	3.98	+0.48	73.35	+0.65	YES
	BT. 4	2.0		2.21					
42H32	BT. 2	1.5	3.5	1.77	3.98	+0.48	73.38	+0.65	YES
	BT. 4	2.0		2.21					
51H01	BT. 1	1.5	20.0	0.0	24.93	+4.93	73.59	+6.69	YES
	BT. 5	18.5		24.93					
51H40	BT. 1	2.0	4.0	2.21	4.42	+0.42	73.01	+0.57	YES
	BT. 5	2.0		2.21					
62H33	BT. 2	2.0	4.0	2.21	4.42	+0.42	73.28	+0.57	YES
	BT. 6	2.0		2.21					
62H34	BT. 2	2.0	4.0	2.21	4.42	+0.42	73.28	+0.57	YES
	BT. 6	2.0		2.21					
62H82	BT. 2	2.0	4.0	2.21	4.42	+0.42	73.45	+0.57	YES
	BT. 6	2.0		2.21					



**TABLE 57: UNIT 4 DOMES – SQ12.1 – GREASE LOSS VS. GREASE REPLACEMENT**

UNIT 4 DOMES: SQ 12.1 – GREASE LOSS vs. GREASE REPLACEMENT									
TENDON	END	GREASE REMOVED (GALLONS)		GREASE REPLACED (GALLONS)		DIFF. (GAL.)	DUCT VOLUME (GAL.)	% DIFF	ACCEPT
		END	TOTAL	END	TOTAL				
2D07	NEAR BT.2	2.0	3.5	2.21	3.98	+0.48	61.41	+0.78	YES
	NEAR BT.6	1.5		1.77					
2D08	NEAR BT.2	2.0	4.5	2.21	4.86	+0.46	61.70	+0.58	YES
	NEAR BT.6	2.5		2.65					
2D34	NEAR BT.2	2.0	2.0	2.21	2.21	+0.21	68.73	+0.30	YES
	NEAR BT.5	0		0					
3D20	NEAR BT.3	2.5	4.5	2.65	4.86	+0.36	67.63	+0.53	YES
	NEAR BT.6	2.0		2.21					
3D25	NEAR BT.3	7.0	16.0	0	21.56	5.56	70.28	7.9	YES
	NEAR BT.6	9.0		21.56					
3D31	NEAR BT.3	20	34.5	0	35.72	1.22	70.17	1.73	YES
	NEAR BT.6	14.5		35.72					



If a large amount of grease is lost during the inspection, then grease must be replaced by pressure pumping it back into the tendon duct.



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## 10.0 COMPARISON WITH ORIGINAL INSTALLATION DATA

A comparison of the liftoff forces from this surveillance to the original installation lock-off forces for the tendons physically inspected on Unit 4 is made in an effort to detect any evidence of system degradation. The lock-off forces are compared in order to detect any abnormal force loss that would possibly indicate an underestimation of the creep, shrinkage and/or elastic shortening effects in the Containment Building. This comparison is summarized in Tables 58 thru 60.

- 10.1 The losses for the Unit 4 Original Scope tendon groups are reported as: 18.3% for the verticals, 26.42% for the hoop tendons and 21.33% for the dome tendons. These losses appear to be as expected when comparing to other containments of this style and age. Based upon this data PSC concludes that the results do not indicate any degradation of the post tensioning system.
- 10.2 Turkey Point Units 3 & 4 is currently committed to meet the requirements of the American Society of Mechanical Engineers, Boiler and Pressure Vessel Code, Section XI, 1992 Edition with 1992 Addenda, Sub-Section IWL "Requirements for Class CC Concrete Components of Light-Water Cooled Plants". Portions of the containment buildings at the Turkey Point Units 3 & 4 were affected by the Reactor Vessel Closure Head (RVCH) project. The above mentioned edition of the code does not require any additional tendon inspection due to the RVCH project. However, as a conservative measure additional tendons have been inspected during this 35<sup>th</sup> Year inspection period. The additional tendons were selected based on Sections IWL 2521.2 of the ASME Boiler & Pressure Vessel Code, Section XI, 2001 Edition with 2002 Addenda.
- 10.2.1 In addition to the random containment tendons, five tendons were selected from the RVCH Project Scope for Unit 3 and six tendons from the RVCH Project Scope for Unit 4. Their losses are as follows: Unit 3 Verticals – 4.4%, Unit 3 Hoops – 3.45%, Unit 4 Verticals – 6.2% and Unit 4 Hoops – 3.6%. Typical losses from the original installation of the tendons at this plant (first surveillance) were  $\approx$ 15%. This reduction in loss is due to the elimination of a majority of the concrete creep, shrinkage and relaxation in the wire for the portion of the tendons not completely replaced. Losses in these tendons should continue to be low and they will remain well above minimum requirements, thus indicating there is no further degradation of the post-tensioning system



**TABLE 58: COMPARISON WITH ORIGINAL UNIT 4 INSTALLATION DATA**

UNIT 4: COMPARISON WITH ORIGINAL INSTALLATION DATA					
TENDON	LIFTOFF FORCE		LOSS (KIPS)	% LOSS	GROUP AVERAGE LOSS %
	ORIGINAL	@35 YEARS			
34V2	762.87	626.17	136.70	17.9%	18.1%
34V23	774	667.01	106.99	13.8%	
45V10	780	624.67	155.33	19.9%	
45V23	774	611.87	162.13	20.9%	
13H70	774	587.75	186.25	24.1%	26.4%
35H34	777	558.82	218.18	28.1%	
42H31	777	552.71	224.29	28.9%	
42H32	777	540.43	236.57	30.4%	
62H82	780	619.16	160.84	20.6%	21.3%
2D08	780	633.64	146.36	18.8%	
3D20	786	619.06	166.94	21.2%	
3D25	774	593.88	180.12	23.3%	
3D31	774	603.25	170.75	22.1%	

**TABLE 59: COMPARISON WITH UNIT 3 RVCH INSTALLATION DATA**

UNIT 3: COMPARISON WITH RVCH INSTALLATION DATA					
TENDON	LIFTOFF FORCE		LOSS (KIPS)	% LOSS	GROUP AVERAGE LOSS %
	RVCH	@2-34 YEARS			
12V6	748.6	730.35	18.25	2.4%	4.4%
56V22	758.2	739.63	18.57	2.4%	
61V01	753.5	690.5	63.00	8.4%	
51H35	625.15	597.32	27.83	4.5%	3.5%
62H55	634.44	619.38	15.06	2.4%	

**TABLE 60: COMPARISON WITH UNIT 4 RVCH INSTALLATION DATA**

UNIT 4: COMPARISON WITH RVCH INSTALLATION DATA					
TENDON	LIFTOFF FORCE		LOSS (KIPS)	% LOSS	GROUP AVERAGE LOSS %
	RVCH	@1-72 YEARS			
12V3	749.87	718.23	31.64	4.2%	6.2%
56V20	747.97	715.76	32.21	4.3%	
56V30	756.36	680.01	76.35	10.1%	
51H40	634.46	606.06	28.40	4.5%	3.6%
62H33	631.99	598.42	33.57	5.3%	
62H34	629.21	623.37	5.84	0.9%	



**11.0 STRESSING TREND ANALYSIS**

- 11.1 A regression analysis was conducted on each of the tendon groups for Unit 4 Original Surveillance Scope. The graphs are shown on the following pages, along with the input data for force and age (time since stressed).
- 11.1.1 The analysis determined the vertical, hoop and dome tendons remaining above the minimum requirements well beyond the next surveillance period as well as beyond 60 years. The Forecasted Value at 60 years is +14.5% above the design minimum for the verticals, +13.5% above the design minimum for the hoops and +11.8% above the design minimum for the dome tendons.

**TABLE 61: UNIT 4 VERTICALS- REGRESSION ANALYSIS - INPUT DATA**

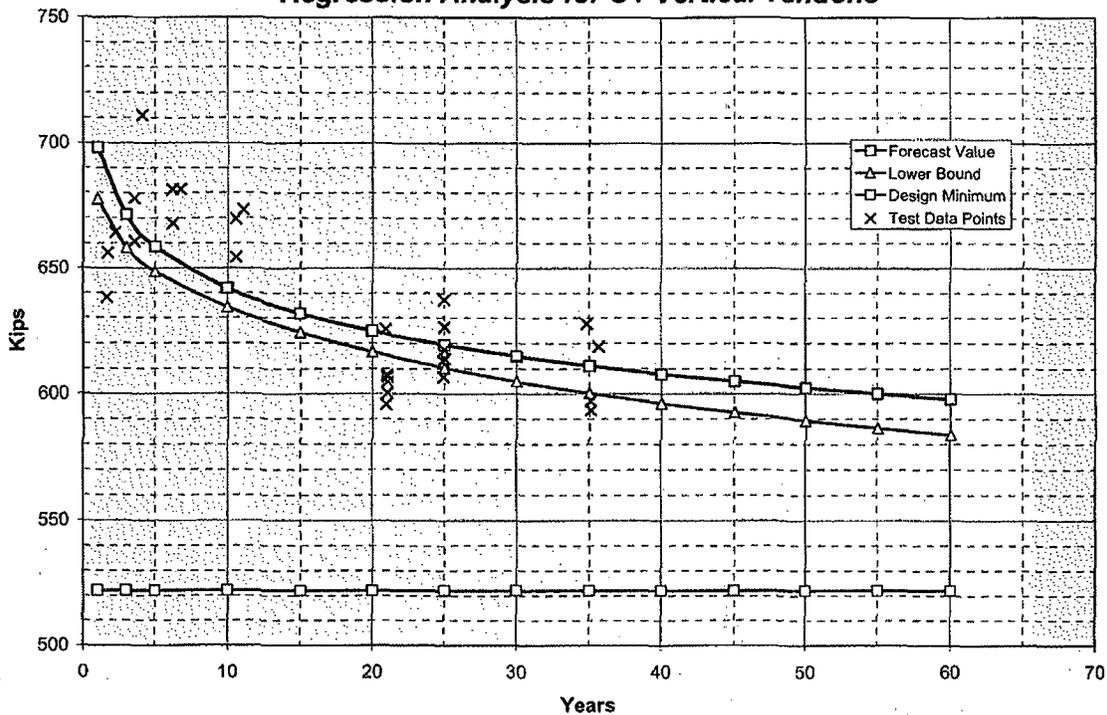
UNIT 4 VERTICALS: REGRESSION ANALYSIS INPUT DATA								
TENDON	TIME (YEARS)	FORCE (KIPS)	Ln(t)		TENDON	TIME (YEARS)	FORCE (KIPS)	Ln(t)
34V29	1.68	656.1	0.518794		23V30	21.01	600.3	3.044999
56V29	1.68	638.1	0.518794		45V10	21.01	606.6	3.044999
12V29	2.22	664.2	0.797507		12V25	21.03	604.8	3.04595
34V29	3.57	660.6	1.272566		45V28	24.91	606.6	3.215269
56V29	3.57	677.7	1.272566		61V4	24.91	612.9	3.215269
12V29	4.12	711	1.415853		23V2	25	617.4	3.218876
34V29	6.2	681.3	1.824549		45V10	25	613.8	3.218876
56V29	6.2	667.8	1.824549		23V23	25.01	637.2	3.219276
12V29	6.75	681.3	1.909543		45V18	25.01	626.4	3.219276
34V29	10.55	654.3	2.356126		34V23	34.82	627.65	3.550192
56V29	10.55	669.6	2.356126		45V10	35.07	597.18	3.557346
12V29	11.1	673.2	2.406945		45V23	35.08	593.51	3.557631
12V27	20.91	595.8	3.040228		34V2	35.64	618.65	3.573469
61V12	20.92	625.5	3.040706					
12V28	21.01	607.5	3.044999					



**TABLE 62: UNIT 4 VERTICALS- REGRESSION ANALYSIS - OUTPUT DATA**

UNIT 4 VERTICALS- REGRESSION ANALYSIS OUTPUT DATA					
REGRESSION		Forecast Years	Forecast Value	Lower Bound	Design Minimum
Slope:	-24.4653	1	698	677	522
Intercept	698.0872	3	671	658	522
Sigma	22.75535	5	659	649	522
Count	28	10	642	634	522
T-value	1.705616	15	632	624	522
Mean Ln(t)	2.510046	20	625	617	522
Var Ln(t)	0.914371	25	619	610	522
		30	615	605	522
		35	611	600	522
		40	608	596	522
		45	605	593	522
		50	602	589	522
		55	600	586	522
		60	598	584	522

**Turkey Point 2007 Tendon Surveillance  
 Regression Analysis for U4-Vertical Tendons**





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**TABLE 63: UNIT 4 HOOPS-- REGRESSION ANALYSIS - INPUT DATA**

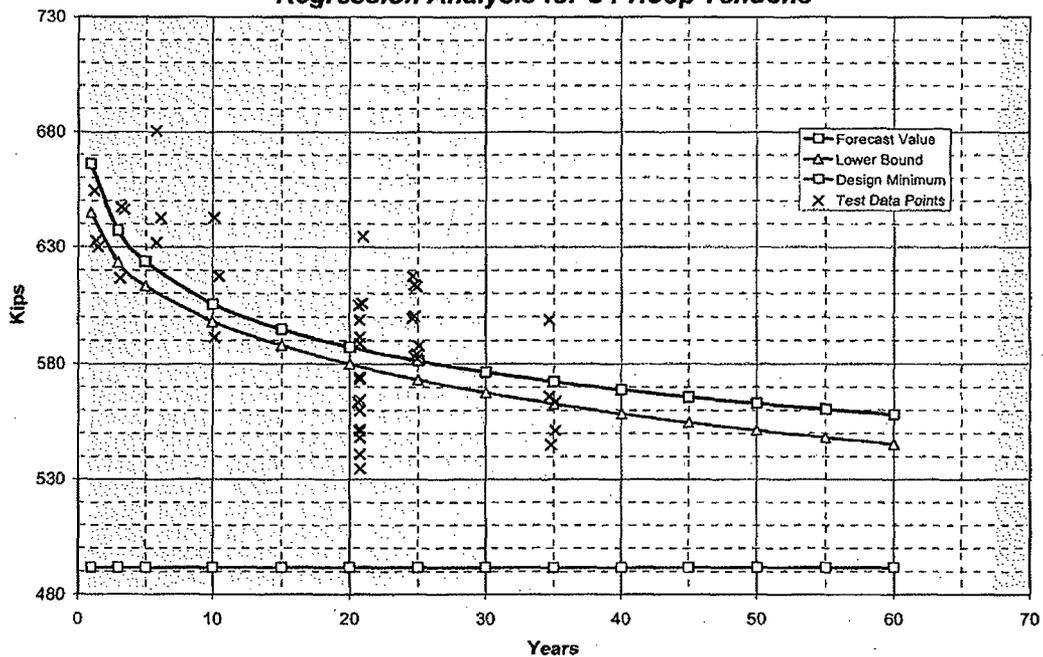
UNIT 4 HOOPS REGRESSION ANALYSIS INPUT DATA								
TENDON	TIME (YEARS)	FORCE (KIPS)	Ln(t)		TENDON	TIME (YEARS)	FORCE (KIPS)	Ln(t)
35H70	1.24	654.3	0.215111		35H40	20.73	550.8	3.031582
51H50	1.37	632.7	0.314811		35H41	20.73	540.9	3.031582
13H15	1.52	630	0.41871		35H42	20.73	551.7	3.031582
64H70	3.15	616.5	1.147402		35H38	20.74	534.6	3.032064
13H38	3.27	647.1	1.18479		35H39	20.74	548.1	3.032064
42H57	3.48	646.2	1.247032		51H10	20.88	605.7	3.038792
42H80	5.78	680.4	1.754404		42H83	20.93	634.5	3.041184
64H70	5.78	631.8	1.754404		35H79	24.58	599.4	3.201933
62H38	6.12	642.6	1.811562		62H82	24.6	617.4	3.202746
42H80	10.13	642.6	2.315501		51H42	24.71	583.2	3.207208
64H70	10.14	591.3	2.316488		13H37	24.72	600.3	3.207613
62H38	10.47	617.4	2.348514		13H32	24.73	613.8	3.208017
13H55	20.6	563.4	3.025291		51H19	24.87	612.9	3.213662
62H82	20.61	604.8	3.025776		35H20	24.88	584.1	3.214064
13H48	20.72	574.2	3.031099		62H54	24.91	582.3	3.215289
13H49	20.72	591.3	3.031099		42H30	25.05	587.7	3.220874
13H50	20.72	588.6	3.031099		13H70	34.65	566	3.545298
13H51	20.72	598.5	3.031099		62H82	34.67	598.73	3.545875
13H53	20.72	564.3	3.031099		35H34	34.8	545.08	3.549617
13H54	20.72	573.3	3.031099		42H31	35.12	563.76	3.558771
51H48	20.72	559.8	3.031099		42H32	35.12	551.24	3.558771



**TABLE 64: UNIT 4 HOOPS- REGRESSION ANALYSIS - OUTPUT DATA**

UNIT 4 HOOPS- REGRESSION ANALYSIS OUTPUT DATA					
REGRESSION		Forecast Years	Forecast Value	Lower Bound	Design Minimum
Slope:	-26.3613	1	666	645	491.6
Intercept	666.0811	3	637	623	491.6
Sigma	26.48927	5	624	613	491.6
Count	42	10	605	598	491.6
T-value	1.683852	15	595	588	491.6
Mean Ln(t)	2.666335	20	587	580	491.6
Var Ln(t)	0.822964	25	581	573	491.6
		30	576	568	491.6
		35	572	563	491.6
		40	569	558	491.6
		45	566	555	491.6
		50	563	551	491.6
		55	560	548	491.6
		60	558	545	491.6

**Turkey Point 2007 Tendon Surveillance  
Regression Analysis for U4-Hoop Tendons**





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**TABLE 65: UNIT 4 DOMES- REGRESSION ANALYSIS - INPUT DATA**

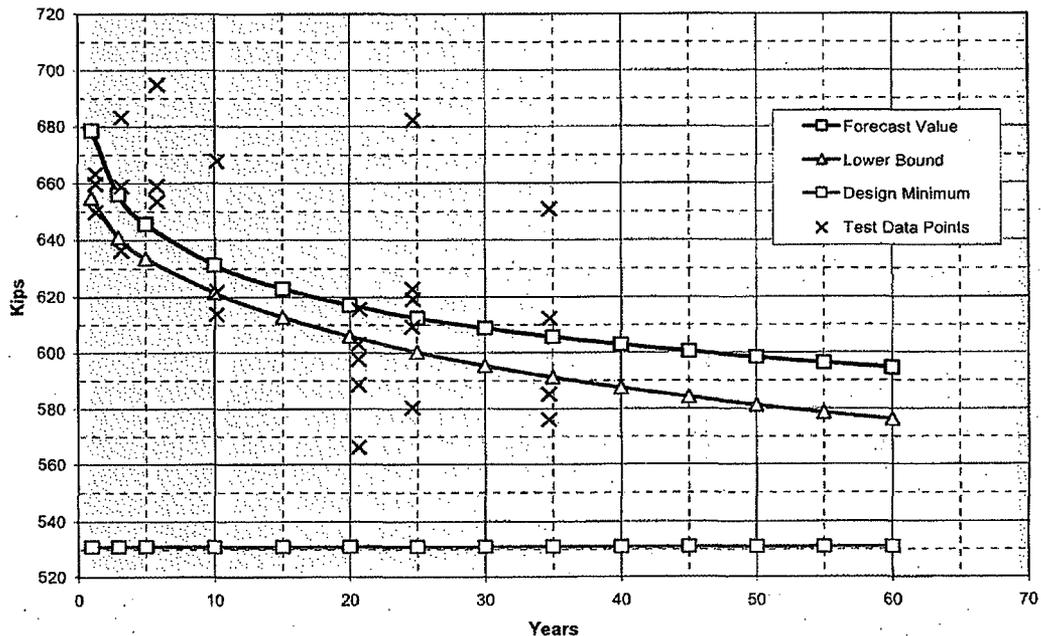
UNIT 4 DOMES- REGRESSION ANALYSIS-INPUT DATA								
TENDON	TIME (YEARS)	FORCE (KIPS)	Ln(t)		TENDON	TIME (YEARS)	FORCE (KIPS)	Ln(t)
1D28	1.32	663.3	0.277632		1D40	20.67	588.6	3.028683
2D28	1.32	659.7	0.277632		2D24	20.67	597.6	3.028683
3D28	1.32	649.8	0.277632		3D20	20.67	603	3.028683
1D28	3.21	683.1	1.166271		1D38	20.7	615.6	3.030134
3D28	3.21	636.3	1.166271		2D11	24.62	609.3	3.203559
2D14	3.24	658.8	1.175573		3D49	24.62	622.8	3.203559
2D3	5.81	658.8	1.759581		1D37	24.64	580.5	3.204371
1D28	5.84	694.8	1.764731		3D20	24.66	619.2	3.205182
3D28	5.84	653.4	1.764731		2D2	24.7	682.2	3.206803
2D3	10.17	613.8	2.319442		3D25	34.7	576.06	3.54674
1D28	10.2	667.8	2.322388		3D31	34.7	585.15	3.54674
3D28	10.2	621.9	2.322388		3D20	34.73	612.25	3.547604
1D41	20.65	566.1	3.027715		2D8	34.76	650.74	3.548467



**TABLE 66: UNIT 4 DOMES- REGRESSION ANALYSIS - OUTPUT DATA**

UNIT 4 DOMES- REGRESSION ANALYSIS OUTPUT DATA					
REGRESSION		Forecast Years	Forecast Value	Lower Bound	Design Minimum
Slope:	-20.5315	1	679	655	531
Intercept	678.5597	3	656	641	531
Sigma	28.92199	5	646	634	531
Count	26	10	631	622	531
T-value	1.710882	15	623	613	531
Mean Ln(t)	2.382738	20	617	606	531
Var Ln(t)	1.144819	25	612	600	531
		30	609	595	531
		35	606	591	531
		40	603	588	531
		45	600	584	531
		50	598	581	531
		55	596	579	531
		60	594	576	531

**Turkey Point 2007 Tendon Surveillance  
Regression Analysis for U4-Dome Tendons**





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PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT

DATE: 05/25/07



## 12.0 CONCLUSION

A review of this surveillance was conducted per IWL-3220 Unbonded Post-Tensioning Systems and is outlined below:

### IWL-3221 Acceptance by Examination

**IWL-3221.1 Tendon Force.** Tendon forces are acceptable if:

- (a) The average of all measured tendon forces, including those measured in IWL-3221.1(b)(2), for each type of tendon is equal to or greater than the minimum required prestress specified at the anchorage for that type of tendon;

**Results:** *The average tendon force for each type of tendon measured this inspection period was above the minimum design. The average percent above the minimum design for tendon group is as follows: Verticals, +21.2%, Hoops, +16.3% and Dome, +15.3%*

- (b) The measured force in each individual tendon is not less than 95% of the predicted force unless the following conditions are satisfied:

- (1) The measured force in not more than one tendon is between 90% and 95% of the predicted force;
- (2) The measured forces in two tendons located adjacent to the tendon in IWL-3221.1(b)(1) are not less than 95% of the predicted forces; and
- (3) The measured forces in all the remaining sample tendons are not less than 95% of the predicted force.

**Results:** *All surveillance tendons physically inspected this inspection period were found to have forces greater than 95% of the corresponding predicted force.*

**IWL-3221.2 Tendon Wire or Strand Samples.** The condition of wire or strand samples is acceptable if:

- (a) samples are free of physical damage;

**Results:** *All of the tendon wire test samples were free of physical damage.*

- (b) sample ultimate tensile strength and elongation are not less than minimum specified values.

**Results:** *All of the tendon wire test samples were found to be acceptable for diameter (0.250 ±0.002), ultimate tensile strength (>240 ksi) and elongation(>4%).*

**IWL-3221.3 Tendon Anchorage Areas.** The condition of tendon anchorage areas is acceptable if:

- (a) there is no evidence of cracking in anchor heads, shims, or bearing plates;

**Results:** *Detailed inspections did not reveal any cracks in the anchorage components for any inspected tendon end.*

- (b) there is no evidence of active corrosion;

**Results:** *Detailed inspections did not reveal any active corrosion on the anchorage components for any inspected tendon end except U3-51H02/BT1. The subject condition was evaluated and accepted per CR2007-7394. The condition report evaluation is included in Appendix D.*



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- (c) broken or unseated wires, broken strands, and detached buttonheads were documented and accepted during a preservice examination or during a previous in-service examination;

**Results:** Detailed inspection did not detect any unseated wires for any of the inspected tendons. A detached buttonhead was detected on both ends of U3-13H31. The detected condition was evaluated and accepted per CR2007-2744. Three tendon ends on Unit 4, 12V03/Gallery, 56V20/Gallery and 42H31/BT2 were detected with one missing buttonhead. In accordance with the acceptance criteria stated in PTN/PSC-TP-N981-502, Technical Requirements for the 35<sup>th</sup> Year Containment IWL Inspection for Turkey Point Units 3 & 4, this condition is deemed acceptable.

- (d) cracks in the concrete adjacent to the bearing plates do not exceed 0.01 in. in width.

**Results:** No cracks observed were greater than 0.010" on any of the concrete 24" around the bearing plates of the inspected tendons.

#### IWL-3221.4 Corrosion Protection Medium.

Corrosion protection medium is acceptable when the reserve alkalinity, water content and soluble ion concentrations of all samples are within the limits specified in Table IWL-2525-1.

**Results:** The sheathing filler (grease) samples were tested and found to have acceptable levels of water-soluble ions, (Chlorides, Nitrates, and Sulfides). One tendon end sample had a moisture content above the limits. However, upon engineering review of the VT-1 inspection and comparison of previous inspections, the condition is not indicative of the tendons condition or capacity for performing as designed and is deemed acceptable. All neutralization numbers were above the IWL requirement of 0.0 mg KOH/g value and acceptable. No visible breakdown of the grease was noted either by color or consistency for all grease samples tested.

#### IWL-3222 Acceptance by Evaluation.

Items with examination results that do not meet the acceptance standards of IWL-3221 shall be evaluated as required by IWL-330.

**Results:** All conditions that did not meet the corresponding inspection criteria were documented, evaluated and deemed acceptable via the FPL Condition Report process. All of the condition reports generated during this inspection period are included in Appendix D of this report.

Based upon the evaluation of the In-Service Inspection results for the 35<sup>th</sup> Year Containment IWL Inspection of the Florida Power & Light Turkey Point Units 3 and 4 Containment Structures, reported herein, PSC concludes that the containment structures have experienced no abnormal degradation of the post-tensioning system. The containment post-tensioning systems are performing in accordance with the design requirements and are expected to continue to do so for the life of both units.



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PROJECT TITLE: 35<sup>TH</sup> YEAR TENDON SURVEILLANCE AT TURKEY POINT DATE: 05/25/07



### 13.0 REFERENCES:

- 13.1 Turkey Point Units 3 & 4 Updated Final Safety Analysis Report (UFSAR), latest revision.
- 13.2 ASME Section XI, 1992 Edition with 1992 Addenda.
- 13.3 Code of Federal Regulation 10 CFR 50.55a.
- 13.4 ISI/IWL-PTN-3/4, "ASME Section XI, Sub-Section IWL, Concrete Containment Inservice Inspection Program", latest revision.
- 13.5 PTN/PSC-TP-N981-500, Scope of Work for the 35<sup>th</sup> Year Containment Tendon Surveillance.
- 13.6 PTN/PSC-TP-N981-501, Tendon Selection, Normalization and Lift-Off Criteria for The 35<sup>th</sup> Year Containment Tendon Surveillance.
- 13.7 PTN/PSC-TP-N981-502, Technical Requirements for the 35<sup>th</sup> Year Containment IWL Inspection for Turkey Point Units 3 & 4.
- 13.8 TP 06-041, 35<sup>th</sup> Year Containment Concrete and Tendon In-Service Inspection Temporary Procedure.
- 13.9 PTN/PSC-TP-N981-504, Engineering Evaluation for the 35<sup>th</sup> Year Containment IWL Inspection.
- 13.10 PTN/PSC-TP-N981-505, Evaluation of Miscellaneous Items for the 35<sup>th</sup> Year Containment IWL Inspection.
- 13.11 Turkey Point Technical Specifications